[Archived] All Meeting Recordings

Request meetings to be recorded as-needed

Oct 31, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Lisa Chan, Katrina Anderson, Peter deHaan, Marco Mucci, Davey Alvarez

Board Review & Triage - Current Sprint

Conducted the second Thursday after the sprint starts.

SubPlat Eng Weekly

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes
M4 Ready [reino/marco]	• Quick overview on Monday at the team meeting. • Estimation - Thursday November 7. • Backup - Tuesday November 12.
Work breakdown, polish PRs, preferred sizing, etc.	• https://mozilla.github.io/ecosystem-platform/reference/team-processes/development-process#polish--quick-fix-pull-requests • https://mozilla.github.io/ecosystem-platform/reference/team-processes/development-process#estimation-and-point-values
Anti-fraud Ideas [clewis - *read only*]	• Idealog - Fraud prevention, detection, and resolution on Su...
SuccessCart, etc. [reino]	• Some thoughts I had while working on this PR that I wanted to run by the team.
TBD	• TBD
TBD	• TBD

Sep 19, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Peter deHaan, Marco Mucci, Davey Alvarez

Board Review - Current Sprint

Conducted the second Thursday after the sprint starts.

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Topics	Notes
L10n recap [reino]	• TBD
Error checking [davey]	• Checking `error instanceof <CustomErrorType>` fails in the next app, though the `error.constructor.name` property is preserved
Bundle Sizes [davey]	• Importing from barrel files cleans up code, but causes bundle sizes to inflate
TBD	• TBD
TBD	• TBD

Sep 12, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Peter deHaan, Marco Mucci

Standup Parking Lot items

If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.

- TBD.

Board Review - Current Sprint

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Topics	Notes

shadcn/ui demo [reino]	• It's a component library (maybe). It's a set of reusable components.
	• Could be cool for payments-next since it uses a familiar tech stack.
	  ◦ Radix, etc
	• How is this different from Tailwind? Would we use both or does this replace Tailwind?
	  ◦ shadcn/ui uses tailwind.
	• Shadcn got bought by Vercel?!
	• Questions/Comments
	  ◦ [sorry, missed Davey's :( ]
	  ◦ [Peter] Would this be for lib payments stuff only, or move it more into fxa-shared so we're using consistent components across mono-repo?
	  • [Reino] Not well built for monorepos in mind, or at least not as expected. Right now just added to payments-next, could be likely added to someone else. Makes having shared components - or splitting into different places across monorepo - might be difficult.
	  • [peter] in example, you were exporting buttons or button variants out of it, so I'm not sure if using it elsewhere would be difficult
	  • [reino] in the end, you're just adding a react component - I don't think there's any enforcement
	  ◦ [davey] main consideration I have - if we keep using it 8 mo from now, we'll likely use the same patterns. If we're thinking it's intermediary, might want to reduce down to whatever we'd like to continue using.

	● [reino] tailwind is already being used throughout the frontend since about a year and a half ago ○ [chelsea] we reached out in #frontenders but do we know of anybody else using shadcn internally? ● [reino] not so much. ○
payments-next env vars [reino]	● Whenever adding new environment variables to payments-next, will need to add these [in most cases] to cloudservices infra as well ● If you don't, payments-next won't start up ● Currently not a huge deal...will be very soon ● Make sure to add them to deploy docs for weekly SRE meeting.
Strapi Rollout [clewis] - *can be pushed to Monday team mtg*	● Filed https://mozilla-hub.atlassian.net/browse/QA-2625 for testing ○ Assumes testing can begin in Staging when the current train goes to Staging - can absolutely be pushed out by a sprint depending on returns on dev / stg testing expected this sprint ● In preparation for release of 2.5 (Strapi usage in Prod) ○ Chelsea will document expectations of timelines + cutover approach to share with the team ● Prep will be sent out at least a day in advance by Chelsea ○ Pre-mortem in this meeting, next week ○ Another check-in on Monday ● If you have questions/suggestions/comments, either share in monday mtg or on slack!
Walk ons	● Do we want to record these demos+chats in the future? ○ [reino] is fine to not record these. ○ General shrugs of consensus ○ [decision] we'll request to record as-needed

Aug 29, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Peter deHaan, Marco Mucci

Standup Parking Lot items

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- TBD.

Board Review - Current Sprint

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SubPlat Eng Weekly

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Topics	Notes
Hiring Retro	• Retrium
TBD	• TBD
TBD	• TBD
TBD	• TBD

Aug 8, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Lisa Chan Ankita Shrivastava Katrina Anderson Peter deHaan Marco Mucci

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• Board Review.

SubPlat Eng Weekly *This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.*	
Topics	Notes
IAP Bug (reino)	• IAP Bug - https://mozilla-hub.atlassian.net/browse/FXA-10263
FXA-10188 (marco)	• Starting Library Name Slack thread on Tuesday.

Dublin Meetings (marco)	• Do we all want to meet in Dublin to discuss M3b or other issues?
	  ○ Library Name (See above)
	  ○ Glean
	  ○ SP2.5 - Bug Bash

TBD	• TBD

Jul 18, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Lisa Chan Ankita Shrivastava Katrina Anderson Peter deHaan Marco Mucci

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SubPlat Eng Weekly

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Topics	Notes

Stripe test clocks [Lisa]	Test clocks help us simulate forward time to check events of a subscription, webhooks, etc occur as expected
	• Using test clocks
	  ◦ In Stripe Dashboard - https://docs.stripe.com/billing/testing/test-clocks/simulate-subscriptions
	  ◦ Using API - https://docs.stripe.com/billing/testing/test-clocks/api-advanced-usage

Hiring Planning [clewis]	• Hiring planning & next steps
	  ◦ Interviewers to design interview - need to identify structure (are we doing a coderpad, questions only?)
	  ◦ Can add directly to the hiring plan here: R2571 - Senior Software Engineer, Payments - Hiring ...
	  ◦ For CoderPad ref: FxA + SubPlat Hiring: P3 Coding Exercise / P4 Technic...
	  ◦ Example questions and tips for Assessing Competencies and Assessing Attributes
	• Team wants to conduct
	  ◦ Coding interview (45-60 mins)
	  ◦ Technical interview (45-60 mins)
	• [Technical Interview Questions] R2571 - Senior Software En...

Merged Meeting [marco]	• Reminder the merged team and triage meeting starts this upcoming Monday.
M3b Next Steps [marco]	• Go over details at the Monday meeting - tentative start set for July 31.
TBD	• TBD
TBD	• TBD

Jun 27, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Peter deHaan, Marco Mucci

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- Board Review.

SubPlat Eng Weekly

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Topics	Notes
Coupon Rate Limiting in Tests	• Are we okay to merge this change PR • Plan if we should continue to see rate limiting? We will submit the PR without the signin step, because this will mean faster execution of tests. Should we see rate limiting again, the next step is to add back the signin step.
Strapi Cloud	• Upgrade paths, payments, etc. • Stef is going to reach out to procurement to determine how we can pay for the monthly plans

Hiring Updates	• Chelsea will begin weeklies with Recruiter tomorrow
	  ◦ Hiring plan is being created now
	  ◦ Recruiting manager screen
	  ◦ Hiring manager screen
	  ◦ Take home test or live?
	  • explain your approach as you go in
	  • At least one in-person live coding interview
	  ◦ Technical screen (**Reino, Julian**, Lisa/Ben maybe)
	  ◦ Cross-functional (stef, marco)

TBD	• TBD

Jun 20, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Lisa Chan Ankita Shrivastava Katrina Anderson Peter deHaan Marco Mucci

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Topics	Notes
SP3 Next performance stats [reino]	• Did some very rough performance testing, that did show some interesting trends I thought are worth sharing.
Self hosting vs. cloud early discussion clewis	• Getting feedback where we can as Strapi Cloud is an option • Over the next week we'll discuss further and obtain feedback on our options • [rmuhl] open to how we want to set this up, but prefers that stage/prod are the same solution (e.g., both on cloud or both self-hosted) for consistency
TBD	• TBD
TBD	• TBD

Jun 6, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Lisa Chan Ankita Shrivastava Katrina Anderson Peter deHaan ~~Marco Mucci~~

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Topics	Notes

[reino] Partial Startup script	• Quick Demo of the partial startup options
	• Ecosystem docs updated with the Tip/additional argument
	  ◦ Development Setup | Firefox Ecosystem Platform
	• Goal was to avoid needing to build the entire stack when, at times/often we are running packages which are unnecessary to the work we're doing, which can use up significant amounts of memory
	• https://github.com/mozilla/fxa/blob/main/package-scripts.js
	• Future steps
	  ◦ Memory profiling tools to understand why some of these packages are using so much memory (1 gig +)
	  ◦ Improving on efficiencies for these packages

[julian] Strapi Ticket Review	• Tickets
	  ◦ **[FXA-9792]** "Create terraform configs for Strapi"
	  ◦ **[FXA-9793]** "Migrate dev Strapi content to stg and prod Strapi"
	  ▪ **RISK: [FXA-9796]** Manually migrate dev Strapi content to stg and prod Strapi
	  ◦ **[FXA-9794]** "Rename Contentful library to generic names"
	  ◦ **[FXA-9795]** "Convert Contentful queries to Strapi"
	  ◦ **[FXA-9797]** "Cleanup Contentful band-aids"
	  ◦ Additional Task - File SVCSE issue to enable Strapi on STG, Prod, as appropriate once work is complete.
	• Differences from Contentful
	  ◦ Joins are different
	• [ben] ProductConfigurationManager that uses a StrapiClient?
	  ◦ Everything possible w/ Contentful should be possible w/ Strapi

TBD	• TBD
TBD	• TBD
TBD	• TBD

May 16, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan Ankita Shrivastava Katrina Anderson Peter deHaan Marco Mucci

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- Board Review.

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Topics	Notes

M3a	• Triage: https://mozilla-hub.atlassian.net/browse/FXA-9668.
	• Coordinate reviews with PTO:
	  ◦ Julian and Reino off on the 17th.
	  ◦ Meghan off on the 20th.

Proactive Communication	• In addition to your standard measures for GitHub, be sure to send a DM when asking a question, requesting a review, etc.
Payments Next updates	• TBD
TBD	• TBD
TBD	• TBD
TBD	• TBD

May 9, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan Ankita Shrivastava Katrina Anderson Peter deHaan Marco Mucci

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Topics	Notes
M3a	• Triage: Hold till Monday.
Julian	• Updates to test format
TBD	• TBD
TBD	• TBD
TBD	• TBD
TBD	• TBD

May 2, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Meghan Sardesai, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Peter deHaan, Marco Mucci

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Topics	Notes
M3a	• Triage: Pending Items.

Quick Payment Element Demo? [reino]	• Quick demo?
500 on navigation to SubPlat [reino]	• https://mozilla-hub.atlassian.net/browse/FXA-9520 • VPN chaos issue • [ben] is this a lead-page issue? • [reino] wants to try with other RPs. (try Relay, to determine if this is a VPN specific quagmire)

Stripe update [team]	• Review Stripe Changelogs
	  ◦ https://docs.stripe.com/upgrades#api-versions
	  ◦ https://github.com/mozilla/fxa/pull/16838/files
	  ▪ Was: `apiVersion: '2022-11-15'`
	  ▪ Now: `apiVersion: '2024-04-10'`
	  ◦ https://docs.stripe.com/upgrades#2022-11-15 and then scroll upwards to see a better API diff.

Stack issues [meg]	• https://mozilla.slack.com/archives/C04RBGF9HRN/p1714589866597609
	• Use a private browser
	• [reino] other options
	  ◦ create a new profile in about:profiles so that you don't have a profile which was previously signed into another account
	  ◦ use a different browser
	  ◦ Don't start entire stack, only the couple stacks you need.
	  ◦ New laptop.
	  ◦ #scorchedearth
	  ◦ Clear Nx caches and node_modules?
	  ◦ Change the code to not pull fxa_uid from the session and pass in `undefined` which might get around the error.
	  ◦

TBD	• TBD
TBD	• TBD

Apr 25, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Meghan Sardesai, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Peter deHaan, Marco Mucci

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- No Board Review.

SubPlat Eng Weekly

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Topics	Notes

M3a	• Discussion:
	  ◦ https://mozilla-hub.atlassian.net/browse/FXA-8894?focusedCommentId=868125
	  ◦ ~~https://mozilla-hub.atlassian.net/browse/FXA-7807?focusedCommentId=868152~~

Coupons API	• https://mozilla-hub.atlassian.net/browse/FXA-9405 • Follow up questions?
Payments Next - Env Vars [reino]	• Quick demo of typesafe env vars config in payments next

Functional Tests - Account Manager [kat]	• Draft PR
	  ◦ Massive draft PR which aims to resolve flake, especially around account creation
	  ◦ As we will all be maintaining this in the future, we need at least one SubPlat engineer to act as a reviewer here - and there is one decision in particular which will impact all SubPlat tests forward
	  ◦ Proposing to move the logic from credentials and emails into a new object called accountManager - and these two have been removed from storage state
	  ◦ Could alternatively create a fixture module that would only apply to subplat which will override the top level fixture (the storage state) and put these back just for subplat, but don't particularly recommend this because there are tests for subplat which do not require a signed in user.
	  ◦

Walk on question [RB]	• Staging VPN QA test subscriptions were canceled, we need some for regular testing - is there a plan?

Apr 18, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Meghan Sardesai, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Peter deHaan, Marco Mucci

Standup Parking Lot items

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- ~~Board Review.~~

SubPlat Eng Weekly

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Topics	Notes

M3a	• [marco] Points:
	  ◦ https://mozilla-hub.atlassian.net/browse/FXA-9472.
	• Risk Review:
	  ◦ ~~Component: Wrapper Client component~~
	  ▪ ~~[Risk] Replace LocalizationProvider with AppLocalizationProvider~~
	  ◦ Stripe: Create handleError function
	  ▪ [Risk] Stripe: Create handleError function without Server Action
	• Other Topics?

Server actions [Julian]	• If anyone has come across questions regarding the server actions decision, please ask them!
	• Additionally I want to give an overview of server action validation via class validator since that's in now.
	
	Notes:
	• NextJSActionsService to-do replaced with Validator().validateOrArgs
	  ◦ Args need to be in a class so it's in a nice decorator with a non-null assertion or TS will throw an error (does break strict type settings but necessary)
	  ▪ E.g. GetCartActionArgs
	  ◦ plainToClass returns to main class (e.g. GetCart)

Integration vs unit runner file extensions [Julian]	• Just want to cover the presence of our integration vs unit runners and that we've added support for .in.spec.ts + DI mock for auth DB
	
	Notes:
	• Example: paypal.manager.in.spec.ts
	• 27 lines of writing out the dependencies in beforeAll
	• Let's optimize!
	• https://docs.nestjs.com/fundamentals/testing
	  ◦ We don't have controllers so all pretty much providers
	  ◦ Create the module (example labels it as moduleRef)
	  ◦ Called Service but we're going to have pretty much all our stuff in providers (Service, Manager, etc.)
	  ◦ Grab your instance of the thing you want to test
	  ◦ You can override (overrideProvider)
	  ◦ We should pretty much be using this most places

NestJS mock test module [Julian]	• A quick tutorial of NestJS's mock testing module as well as NextJS's various testing options/methods. Notes: • See above row
Ecosystem Docs updates [Reino]	• chore(docs): update nx library generator command • chore(docs): node style guide updates • chore(docs): Add node style guide supplemental
Coupons API Epic triage [bbangert/clewis]	• Triaging together on Monday • Tickets have been filled in and can be reviewed before the meeting • https://mozilla-hub.atlassian.net/browse/FXA-9405
TBD	• TBD

Apr 11, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis ~~Benjamin Bangert~~ ~~Julian Poyourow~~ Reino Muhl Meghan Sardesai Lisa Chan ~~Ankita Shrivastava~~ Katrina Anderson Peter deHaan Marco Mucci

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- No Board Review.

SubPlat Eng Weekly

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Topics	Notes
~~M3a~~	~~● [marco] Triage:~~ ~~○ TBD.~~ ~~● Other Topics.~~
Server actions [Julian]	● If anyone has come across questions regarding the server actions decision, please ask them! ● Additionally I want to give an overview of server action validation via class validator since that's in now. ○ Will delay to next week
NextAuth: Env Vars [Reino]	● Talk about Auth.js environment variables ○ .env.example ○ AUTH_SECRET
Integration vs unit runner file extensions [Reino/Julian]	● Just want to cover the presence of our integration vs unit runners and that we've added support for .in.spec.ts + DI mock for auth DB ○ Will delay Julian's portion to next week
NestJS mock test module [Julian]	● A quick tutorial of NestJS's mock testing module as well as NextJS's various testing options/methods. ○ Will delay to next week
BigQuery Firestore walkthrough [reino]	● BigQuery ○ We dont have access to prod firestore, but there is a workaround to get access to some records. ○ In bigquery there is a firestore_export ■ *_raw_latest ○ Data might only be kept for 60-90 days

Apr 4, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Meghan Sardesai, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Marco Mucci

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- Board Review Happening This Week.

SubPlat Eng Weekly

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Topics	Notes

M3a (team)	• [marco] Triage:
	  ◦ https://mozilla-hub.atlassian.net/browse/FXA-9404
	  ▪ Will pick up in triage monday
	• Other Topics.

Strapi RRA (chelsea)	• Documentation.
	  ◦ **HIGH** Enforce review workflows when publishing content from relying parties
	  ◦ **HIGH** Do vulnerability assessment of Strapi
	  ◦ **MEDIUM** Ensure backups are enabled on Strapi
	• Review w/ team - questions, concerns
	• New tickets from RRA and ticket swap
	  ◦

Prep for Deloitte SR&ED Meetings - Subscription Platform 3.0 (chelsea)	• Meeting is Monday @ 2pm PT/11am PT
	• Deloitte will ask questions about the SubPlat 3.0 project, including
	  ◦ Team time spent on the effort
	  ◦ What kind of work was done
	• Deloitte will determine if the project meets the criteria for the tax credit as a result of this meeting

Coupons API (chelsea)	• Epic will have more info soon
	  ◦ https://mozilla-hub.atlassian.net/browse/FXA-9405
	• Will allow monitor to make a request to our system for a particular user so that they can provide a discount to that user
	  ◦ **Can apply a coupon via API**
	  ▪ Add a coupon to subscription for NEXT invoice only (future invoices - one or more)
	  ◦ On subscription management page, would like to ideally display something about their upcoming invoice that shows there's a coupon, would have to update the API method to indicate there's a coupon applied to the subscription

	■ Adding tax - copy was very difficult to obtain and make clear ■ No emails to be sent when coupons are applied ■ Coupon applied would show for future invoices
TBD	• TBD

Mar 28, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan Ankita Shrivastava Katrina Anderson Marco Mucci

Standup Parking Lot items

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- No Sprint Update Happening This Week.
- QA follow up - testing information required:
  - ~~https://mozilla-hub.atlassian.net/browse/FXA-8639?focusedCommentId=855293~~

SubPlat Eng Weekly - Recording

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes
M3a (team)	• Any questions or issues: ◦ [marco] Triage: ■ Add showExpandButton to PurchaseDetails ■ Page: Error layout ◦ [reino] Risk Review: ■ [Risk] Replace LocalizationProvider with AppLocalizationProvider ◦ [marco] Add missing QA tags. ◦ Please Add.
New Stripe Typings Overview (Julian)	• Lots of details shared in recordings • If you add something to the Stripe typings file - if you need something from Stripe, it needs to be added here. If you plan to add, reach out to Julian who can support the process ◦ Do not use Stripe.* types anywhere at all unless you're in legacy code. Always use our internal library types

UI/UX change tracker [reino]	• Technical Specification - Subscription Platform 3.0
TBD	• TBD
TBD	• TBD

Mar 21, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan Ankita Shrivastava Katrina Anderson Marco Mucci

Standup Parking Lot items
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- Sprint Update Happening This Week.
- QA follow up:
  - ~~From Rebecca -~~ ~~https://mozilla-hub.atlassian.net/browse/FXA-8639?focusedCommentId=849981~~ (Meg - answered)

SubPlat Eng Weekly - no recording this week due to lack of perms
This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes
M3a (team)	• Any questions or issues: ◦ Triage - Set up `libs/` alias + update relative import paths ▪ Dropped into reserve
Sentry health	• Can we identify heuristics / create a guide for when to archive, when to act? How can we keep this maintained? ◦ How much time are folks spending on trying to make these decisions? ▪ Difficult to say - measurement of time on these in particular is hard to gauge ◦ Should come up with an interval that we consider to be an acceptable interval. ▪ **Recommended: 10x/hour as baseline recommended rule**

	○ • **Should we find an issue breaks this more than once, we should silence that issue (e.g., fix the issue, write an ignore rule for that issue, depends on what the issue is)**
Frontend errors for 3.0	• Sentry stinks for this, so what can next.js offer us if anything? Or how do we set up sentry to do this better?
Triage ownership	•
TBD	• TBD
TBD	• TBD
TBD	• TBD
TBD	• TBD

Mar 14, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Meghan Sardesai, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Marco Mucci

Standup Parking Lot items

If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.

- No Sprint Update Happening This Week.
- QA follow up:
  - ~~Meghan:~~
    - ~~https://mozilla-hub.atlassian.net/browse/FXA-8639?focusedCommentId=830632~~ (will update comment)

SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes

Retro follow-up (Chelsea)	• Quick review of the remaining topics at retro to determine: ◦ Is there anything that requires follow-up (in this conversation, or later)
M3a (team)	• Any questions & issues: ◦ ???.
Test Fixture Demo (Kat)	• Documentation • Example PR

Client / Manager / Service (reino)	• Not urgent. Prioritize other topics
	  ◦ **AI [eng team]: re-read the docs below. Consider/bring a few examples or topics that you would like to discuss for next week.**
	  ◦ Ex: "Am I putting the code in the right place?"
	  ◦ [bbangert] this might be a good FxA live topic - FxA are not familiar with the tweaks we've made with libs, so there are some opportunities being lost for consistency.
	• Ecosystem Doc
	  ◦ Chit + Chat through some examples

RETRO follow up	[Save at least 5m to finish this, after recording is complete] *No notes, except Action Items, will be taken as this is a follow-on to our retrospective.* • Thunderbird (MZLA) can start playing around on Stage (now that we have legal approval), marking another step forward with their onboarding to SubPlat • Our RPs still don't have clarity on the future of their products, namely VPN, Relay, and MDN Plus.
TBD	• TBD
TBD	• TBD
TBD	• TBD

Mar 7, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Meghan Sardesai, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Marco Mucci

Standup Parking Lot items

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- Sprint Update Happening This Week.
- QA follow up:
  - Ben:
    - https://mozilla-hub.atlassian.net/browse/FXA-9067?focusedCommentId=837463
  - Meghan:
    - https://mozilla-hub.atlassian.net/browse/FXA-8639?focusedCommentId=830632

SubPlat Eng Weekly []

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes
Geekbot (marco)	• Reminder to Post Daily Standup in Slack at the start of your day.
M3a (team)	• Any questions & issues: ◦ (marco) Sprint backlog refreshed with new priority issues.
Issue Type Change (marco)	• IT is renaming the JIRA issue type "*Partner work*" to "*Theme*".

L10n updates (reino)	• Updates from convo with Bryan regarding l10n string extraction from payments-next.
	  ◦ SubPlat team to manually ensure that there are no duplicate strings between SP2.5 and SP3.0.
	  ◦ For unchanged strings copied from SP2.5 to SP3.0, the l10n team will attempt to run a script to copy the existing translations from the SP2.5 id's to the new SP3.0 ids.
	  ▪ To help with this effort, when copying a string ID, the SubPlat team should pre-fix the string ID with 'next-'. Example below
	  ▪ SP2.5 string: coupon-promo-code-applied
	  ▪ SP3.0 string: next-coupon-promo-code-applied

Jira/Process (marco)	• Feel free to reach out to me with any questions.
M3a Question - Rebecca	• Is there a good link for reading M3 documentation? ◦ Tech Spec: https://docs.google.com/document/d/1nvBlliXSufdMZnSZMfSu7TUrOslQLBXlcHfWoYvrAAU/edit#heading=h.2gazcsgmxkub

FXA-9053 Review [meg]	• Discuss canceling out tickets, moving to Strapi epic, etc.
Audibles/Walk Ons	•

Feb 22, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan Ankita Shrivastava Katrina Anderson Marco Mucci

Standup Parking Lot items

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- Sprint Update Happening This Week.
- QA follow up:
  - Ben:
    - https://mozilla-hub.atlassian.net/browse/FXA-9055?focusedCommentId=836974
  - Meghan:
    - https://mozilla-hub.atlassian.net/browse/FXA-8639?focusedCommentId=830632

SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes
M3a	• Any and all questions/issues. ○ Priority list updated.
Flaking Paypal Functional Tests	[FXA-9180] Flake in resubscribtion PayPal functional tests • CircleCI has labeled the following two tests as flaky ○ severity-2 #smoke › resubscription test › resubscribe successfully with the same coupon after canceling for paypal

	○ severity-2 #smoke › resubscription test › update mode of payment for paypal ● Issues with automating the PayPal interface are known. ○ We re-enabled one of these tests recently and attempted to reduce exposure (PR). ● Option 1: Remove the tests ○ Pros: Reduces maintenance costs, loss in development speed & frustration ○ Cons: Reduces are ability to get early feedback on breaks with Paypal, possibly impacting customers ● Option 2: Pause Execution with fixme annotation ○ Playwright upgrades are scheduled for Q2. They may offer us new methods of interacting with Paypal.
Reino	● Who are Capabilities? ○ Ecosystem Docs - Capability ○ *This is how your Relying Parties know they're subscribed. Each product is associated with the capabilities that it confers to a user*
Audibles/walk ons	●
	●
	●

Feb 15, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Meghan Sardesai, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Marco Mucci

Standup Parking Lot items *If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.*
If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.

- No Sprint Update This Week.
- QA follow up:
    - FXA-8639 - Meghan: https://mozilla-hub.atlassian.net/browse/FXA-8639?focusedCommentId=830632

SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes
M3a Questions	• Any and all.

Contentful Go-Live Question [meg]	• **If the customer has only stripe metadata based plans, and tries to sign up for a contentful-enabled plan, are we using contentful metadata, or stripe metadata?**
	  ○ https://mozilla-hub.atlassian.net/browse/FXA-9062
	• Short answer: I think all data should be in Contentful in order to pull from Contentful, otherwise pull from Stripe
	• Questions:
	  ○ Do we have any examples of where this is currently not the case? If our ultimate goal is to transition from Stripe entirely to Contentful, should all information not be in Contentful?
	  ■ FXA-8485 and FXA-9029 for reference
	  ○ How will we handle Hubs moving forward?
	  ■ Particularly for currently active customers
	  ■ https://mozilla.slack.com/archives/C05HCBPHNBZ/p1708009390227159
	• [Julian] I believe the safest approach is that if the customer has any plan which is not contentful-enabled, we default to Stripe
	• [Reino] All data is in Contentful. Assumption I'm making is that we'll only start using Contentful once we've fixed all Sentry errors already. My understanding is that, if we enable Contentful instead of Stripe metadata, we are already at the point where we are assuming there will be no more mismatches between Stripe and Contentful. (I think it was something like this)

	○ It might be worth investigating the approach for the places where we're doing the quality check between Stripe and Contentful - each place is being used slightly differently, the feature flag may not make sense for every use case ○ In one case in particular, it's either on/off, it'd be a lot of effort to do partially contentful, partially stripe. ○ Look at these four places and identify an approach for each one. ● [Ben] This all seems quite complex - lots of varieties about how all these things can come together. Wondering if we should just have this feature flag be on / off for contentful rather than having these different cases explain so that if something goes wrong, ○ Rather than a list of products, make a feature flag on/off ○ Doesn't change fail cases - If there are new stripe errors out of the blue, turn off contentful ●
	●
	●
	●
	●

Feb 1, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan Ankita Shrivastava Katrina Anderson Marco Mucci

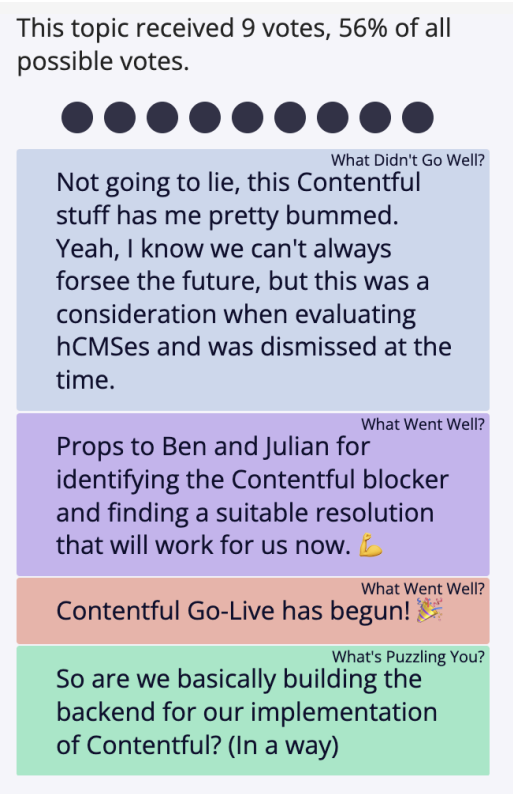
Standup Parking Lot items *If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.*
If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup. ● No Sprint Update This Week.

- New QA requests for testing information:
  - **[kat]** I am looking for a SubPlat team member to review FXA-8954 for me, see also PR draft. Before setting the draft to "Ready for Review", I'd like to request a short pair session with my reviewer please, I'm missing some product knowledge in order to make some decisions.
    - Meghan will review.
  - For Meghan - QA requests further information regarding: https://mozilla-hub.atlassian.net/browse/FXA-8639?focusedCommentId=826077

SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes
[kat] Functional Tests In Production	• FXA-7861 Automated Tests in Production ◦ I am proposing to cancel this ticket because: ▪ The effort to implement is high and the final implementation would probably be very close to what we already have on stage. ▪ I think a better direction for our effort in the functional tests would be breadth vs depth. Meaning add more test cases for better coverage in local and perhaps stage environments vs running fewer test cases in more environments.
[Julian] Updates regarding Contentful downtime mitigation	• Follow-up post-Retro • We have a new solution that would lower the impact on SubPlat 3.0 and the contentful manager, allowing us to maintain our existing implementation while also satisfying the need to be more resilient against contentful downtime. It doesn't give us a 100% guarantee that contentful downtime wouldn't affect us, ◦ Solution to implement a fairly heavy caching layer such that using a network-first strategy, we would query against contentful just as we do now via GraphQL, write those results to a firestore collection where the identifier on that Firestore collection would be the query string itself plus its values ◦ Value would be the returned result from that query ◦ It is possible that the cache could *not* contain the content, we can log that so that we know when/if this ever happens ◦ We would have a cron that invalidates any cache entry that is older than x amount of time. That cron would be run on some interval which we consider to be too stale or too old -

	could run this manually if we made a breaking change or realized some important problem requiring that we invalidate the cache. ○ This cache is not really oriented for performance, but rather failover ● Far less effort both now and in the future with this new approach, we're using what we've built out as we intended, and don't need to write out our own layer to grab stuff from this mirror of contentful content on its own side. Don't rip out all of the Contentful Manager work we've already done. ● The 3 tickets created yesterday will be converted to Risk issues, they will sit available should we ever need to pivot to that backup implementation if ever that's required in the future, and create a new ticket to implement this heavy-handed caching strategy which should be a single ticket, less work than these original tickets. ● If the logging indicates that we frequently miss caches, could pivot to the issues documented in the Risk issues.
[Julian] Short demo of server actions	●
[marnie] Retro topic: Contentful	● Optional topic, if folks wanted to continue chatting after the retro *(NB: only 4 team members were voting)*: 

Jan 18, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Meghan Sardesai, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Marco Mucci

Standup Parking Lot items

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- No Sprint Update This Week.
- New QA requests for testing information:
  - None

SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes
[Meg/Reino]	• Team discussion https://mozilla-hub.atlassian.net/browse/FXA-8485?focusedCommentId=802104
[read-only]	• Chelsea will follow-up with Meg/Lisa before the end of Hackathon to add their sprint work.
M3a Hackathon	• Any and all topics.
	•
	•
	•

Jan 11, 2024 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis, Benjamin Bangert, Julian Poyourow, Reino Muhl, Meghan Sardesai, Lisa Chan, Ankita Shrivastava, Katrina Anderson, Marco Mucci

Standup Parking Lot items

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If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.

- New QA requests for testing information:
  - None

SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes

[Reino & Julian]	• High level overview of what to expect from M3a/b work, an overview of tickets.
	  ◦ M3a Issues
	  ◦ Planning Doc
	• Notes [anyone on the call can feel free to add here]
	  ◦ Blue blocks are in M3A, green blocks are M3B, items without a block already exist
	  ◦

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Dec 14, 2023 | SubPlat Standup / Eng Weekly

Attendees: ~~Chelsea Lewis~~ ~~Benjamin Bangert~~ Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan ~~Ankita Shrivastava~~ Katrina Anderson ~~Marco Mucci~~

Standup Parking Lot items

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- New QA requests for testing information:
  - For Meghan - FXA-6303
  - For Meaghan - FXA-8639

SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

https://mozilla.zoom.us/j/99245089943?pwd=dTZUdDdTeGxGOTVTS21lVE1WQWtjUT09

Pontoon recording link: https://mozilla.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=65829e72-dd4a-4bfb-8b0e-b0d801438810

Topics	Notes
[reino] M3a frontend teaser	• High level overview of what to expect from M3a/b frontend work.
	•
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	•

Dec 7, 2023 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow ~~Reino Muhl~~ Meghan Sardesai Lisa Chan ~~Ankita Shrivastava~~ Katrina Anderson ~~Marco Mucci~~

Standup Parking Lot items *If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.*
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SubPlat Eng Weekly [Recording] *This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.*	
Topics	Notes
	• CANCELLED! No topics.
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Nov 30, 2023 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan Ankita Shrivastava Katrina Anderson Marco Mucci

Standup Parking Lot items

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- [marco] QA Follow Up Questions:
  - FXA-8620 - For Julian (replied & expected, can be closed out)
  - FXA-8485 - For Chelsea (*Optional if you want to add anything beyond Reino's response*).

SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes

GA4 Cookies [FXA-8624]	• Background: We had set the default for all consent types as `denied` for Google Analytics (see PR), which caused data from being logged into GA Dashboard
	• Observation: Cookies are required for data to be logged
	  ○ Could leave as-is as Stef mentioned today (in Slack)
	  ○ Hoped that we could still collect anonymized data *without* cookies as that best aligns with Mozilla's principles - however, this is not functional as data is not being logged
	• Legal recommendations, etc.,
	  ○ Stef likely the best person to weigh in on this / next steps
	• Potential next steps
	  ○ Chelsea to get alignment with Stef on next steps (and Legal, as necessary)
	  ○ If decision is made to do so, Lisa's ticket FXA-8624 will be to accept data by default for at least events, can likely keep out the "ads" as blocked by default, etc.
	  ○ Meghan would rebase off of Lisa's PR once approved to confirm that FXA-8639

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No Meeting Nov 23, 2023 | SubPlat Standup / Eng Weekly

Nov 16, 2023 | SubPlat Standup / Eng Weekly

Attendees: ~~Chelsea Lewis~~ Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan ~~Ankita Shrivastava~~ Katrina Anderson Marco Mucci

Standup Parking Lot items *If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.*
If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup. •

SubPlat Eng Weekly [Recording - no recording, meeting lasted ~5m] *This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.*	
Topics	Notes
New tickets	• Marco will send Meghan list of available tickets to work on if her work wraps before the close of sprint
	•
	•
	•
	•
	•

Nov 9, 2023 | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan ~~Ankita Shrivastava~~ Katrina Anderson ~~Marco Mucci~~

Standup Parking Lot items

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If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.

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SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes

SUB_PLAT_DEV => Contentful config [reino]	• Quick demo of Contentful config in dev (Should be short)
	• [demo notes]
	  ◦ There are a lot of testing products in general which creates a lot of noise in Sentry - Reino cleaned up the Dev environment, would like to consider doing something similar in Stage
	  ◦ Whatever remains in Stripe will need to be moved to Contentful
	  ▪ **AI:** identify which products/plans are leveraged by manual + automated tests in Dev, Staging
	  ◦ Sentry errors for plans with incomplete configuration appear like this
	  ◦ Can search in Contentful for the price ID to grab the correct offering
	• [questions]
	  ◦ Do we want to make sure we note the search in contentful functionality in ecosystem docs? Yes we should - whether it's there or not :D Lisa Chan ack'd, will add that you can search by product/plan ids.

Nov 2, 2023 | SubPlat Engineering Weekly

Attendees: lisa, reino, meg, kat, chelsea, ben, julian

Recorded: no, because zoom perms issues. AI: Chelsea to update zoom/recording perms for next round [DONE!]

Useful Links for Reference:

-

Topic	Notes

[clewis] meeting setup - recording sessions	• I'd like to start recording these so that folks can listen in at a later time, even if they're around live
	  ◦ As these sessions tend to be quicker, and are not formally documented (e.g., we do not have a set notetaker each week), it'd be nice to be able to listen in with subtitles if something wasn't captured in notes
	• Alternatively, I'd like to ask that we have rotating notetakers for these sessions
	• Preference, other options to consider?
	• **Decision:**
	  ◦ We'll record these in the future so that folks can re-watch w/ subtitles as needed
	  ◦ Recording links will be added once they're available at the top of the notes section
	  ◦ No formal notetakers assigned in this meeting as the standard, but everyone is encouraged to add
	  ◦ If by 15 mins before the meeting there are no topics added, the meeting will be canceled for that week

Contentful - Knowledge sharing (FXA-8534) [lisa]	• Review process of adding a field to a content model
	  ◦ Reference: Ecosystem Platform: Contentful Deployments
	  ◦ Steps
	  ▪ Create feature environment in Settings
	  ▪ Make update to content model in Contentful
	  ▪ Use Contentful's Merge App
	  ▪ Export the migration script to repo
	  ▪ Run codegen: `nx codegen shared-contentful`

	•
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	•
[sticky] If there's time/interest -	•

triage related updates	
[sticky] Tips & Tricks, something you learned, something you want to show off	•

Oct 31, 2023 | Office Hours

Recorded: No

Useful Links for Reference:

•

Topic	Notes

Contentful Questions [Lisa]	• Offering will represent a product/tier (e.g. Relay Tier 1, Relay Tier 2)
	• Purchase will incorporate plans with intervals and currency(ies)
	• For the initial Stripe migration, PMs will not be required to fill out Purchase and can leave this as an empty array in Offering
	• Locales
	  ○ English should be the fallback for all locales
	• Name of permissions groups - reference Tech Spec
	  ○ RPs will not have access to creating Capability or Service
	  ■ Added this task to ticket FXA-8502
	• VPN's Stripe metadata of `support:app:` - leave as-is
	• FPN will not be added into Contentful

Reading material	https://nextjs.org/blog/security-nextjs-server-components-actions#data-access-layerx

Date: Oct 26, 2023
Attendees: ben, meg, kat, reino, anna, lisa, ivo, chelsea, ankita, julian
Absent:
Recorded: No

Useful Links for Reference:

-

Topic	Notes
Survey	• Still pending feedback
Nextjs learnin'?	• Yes, its on now! • https://nextjs.org/conf • Folks are watching together (individually) and we can have a chat about it after it wraps
	•
	•
	•
	•
[sticky] If there's time/interest - triage related updates	•
[sticky] Tips & Tricks, something you learned, something you want to show off	•

Date: Oct 19, 2023
Attendees: ben, meg, kat, reino, anna, julian, lisa, ivo
Absent: chelsea (pto)
Recorded: No

Useful Links for Reference:

-

Topic	Notes

Server to server GraphQL	• Presentation - Fetching Data in Payments Next - 3 Options
	• Presentation Notes:
	  ○ Preamble:
	  ■ "client" vs "server:

	■ Next.js and server components ■ Presentation outlines 3 different ways to facilitate interaction between Next.js and data needed to run our application ■ All options will be using GraphQL ○ Option 1: Partial Server Side + Partial GraphQL ■ Load data from server side for initial page load ● Uses Nest.js dependency injection ■ GraphQL for Client requests ■ Pros: ● Less request hops ● Less typings to generate GraphQL codegen ● Less queries to maintain ■ Cons: ● Increased mental overhead with data fetching ● Additional complexity ○ Option 2: All GraphQL ■ All requests centralized in GraphQL ■ Can query GraphQL server to server, and from the client ■ Pros: ● One location where all network communication occurs (GraphQL) ● Less mental overhead ● Query typings validation ○ GraphQL has strong query typings validation ○ RESTful services require additional tooling ● Extensibility ● GraphQL Playground ■ Cons: ● More request hops ● More complex ● Maintain more GraphQL queries in Next.js ○ Option 3: Partial Server Side + Partial Route Handler ■ Server side and route handler all maintained in Next.js ■ Load data from server side for initial page load ■ Use route handlers for Client requests ■ Use Nest.js dependency injection within Next.js ■ Don't use GraphQL API for internal communication or fxa-graphql-api for payments-next at all ■ Pros: ● Less request hops ● No GraphQL queries to maintain ● Most Next.js integrated approach ● Future proof

	■ Cons: ● Lose end-to-end typing (have to cast) ● Limited tooling ● High amount of lock-in into Next.js ● GraphQL potentially still required for RP queries ● Questions: ○ ● Next.js with RSC allows us to call functions directly from the server. (e.g. to call the DB). However some calls from the client will need to be REST/GraphQL. ● The question: Is it fine to have some as function calls, others as GraphQL, or should we move everything into GraphQL?
Next.js React testing	● React component testing. I'd like to update to Tech Spec ○ No React tests ○ No Storybook
	●
Standup	●
	●
Walk ons!	●
[sticky] If there's time/interest - triage related updates	●
[sticky] Tips & Tricks, something you learned, something you want to show off ● Add tips and tricks that have made your life better recently	●
[sticky] Puzzlers	●

	•

Date: Oct 12, 2023
Attendees: Reino, Meg, Kat, Ivo, Anna (partly/meeting conflict), Julian, Ben, Lisa
Absent: Chelsea, Ankita
Recorded: No

Useful Links for Reference:

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Topic	Notes
Contentful queries	• Change in Contentful queries. PR here
Contenteful getLocale	• This PR here
SP3.0 - Q&A ?	• Any SP3.0 questions to discuss? • Would a M3 overview be helpful?
Standup	•
	•
Walk ons!	•
[sticky] If there's time/interest - triage related updates	•
[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life	•

better recently	
[sticky] Puzzlers	•
	•

Date: Oct 5, 2023
Attendees: Bianca, Meg, Reino, Sean, Kimmy, Ivo, Ankita, Lisa, Julian
Absent: Ben, Chelsea, Stef (manager/work week)
Recorded: Yes

Useful Links for Reference:

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Topic	Notes

[bdanforth] V1 Product Metrics Dashboard share out	• Recording
	  ◦ In Subscription Platform Google Drive > Demos & Explainers > FxA Data Pipeline
	• Expected time: 30 minutes
	• Guests: Kimberly Siegler and Sean Rose
	• SubPlat P1 Dashboard epic share out (completed Sep 30, 2023)
	  ◦ **SubPlat Subscriptions dashboard**
	  ◦ **SubPlat Checkout Events dashboard**
	  ◦ Docs for V1 dashboards work
	  ■ For RPs (once PR merges)
	  ■ For FxA/SubPlat engineers (once PR merges)
	  ■ Related: Ecosystem Platform - Data Sources
	  ◦ Dashboards answer product questions posed in SubPlat P1 Product Metrics PRD
	  ■ SubPlat P1 Metrics epic (completed Jun 7, 2023) audited and improved our checkout and related metrics in the code.
	  ◦ Meeting notes between DS/DE/PM/SubPlat Eng (bdanforth) for both metrics epics
	  ◦ Next steps: Epic - SubPlat P2 Product Metrics
	Notes:
	- Created dashboard and panels based on available metrics
	  - SubPlat Checkout
	  - Includes: Conversion funnel, Attribution, Errors
	  - Caveat
	  - Performance - very large data source (not just payments); may be slow

	- Currently includes Stripe data; Google/Apple, etc will be included at a later time - Restrictions - only goes back one year for event info - Ongoing tickets outlined in the dashboard to look into errors, validation might not be needed? - Top level filters update only for event data we have - SubPlat Subscriptions - Same filters as Checkout dashboard - Data sources (see docs) - Insights - Regarding product names, there are individuals that are subscribed to both VPN and Relay, and not the bundle. While this is not currently a concern to the VPN team, transaction costs do incur so there may be a concern at a later time - Caveat - Based on ETLs / logical subscriptions (created by Sean) - Data catalog - Mozilla.acryl.io - mozilla.cloud.looker.com/explore/subscription_platform/monthly_active_logical_subscriptions - Find out where data come from by right-clicking -> Explore from here, which will open view/table, where you're able to see lineage of where data came from (e.g. reverse lookup, combined tables) - Access - To view, we do not have to request access and should be able to use - To modify, ask Chelsea to get access - Ownership - FxA - Wil and Vesta - SubPlat - currently there are no owners. Potentially Chelsea and Stef? - Would still need Engineering to investigate and help answer data-related questions - Perhaps add it as part of Triage?

[julian] Stripe typings update	`Option 1:`
	
	`Create a full set of generics and override the default Stripe return types.`
	`Our application would work with types such as Stripe.Subscription<Stripe.Customer>. Calls to Stripe would be generic and would infer the return type based on the` `expanded` `property passed.`

Pros:
- Nicest API to interact with in general

Cons:
- A lot to maintain, effectively reworking Stripe's entire typing system
- May not be necessary, since we're wrapping Stripe in a library anyway
- Types-only implementation would probably not be enough, since with types only a function that requires `Stripe.Subscription<Stripe.Customer>` could not be passed `Stripe.Subscription<Stripe.Customer & Stripe.PaymentMethod>` since the `default_payment_method` property would not be a compatible type.

Option 2:

In our own Stripe lib, cast Stripe results to our own types on top of the response type set. We then can work with our own defined subset of typings that fully encapsulate Stripe's typings.
Our application would work with types such as Subscription<Customer> where Customer and Subscription are both types that are defined and maintained by us, and come from the Stripe lib in our own codebase.

Pros:
- Easier to maintain
- Still get some of the flexibility of generics
- Can define a function that requires `Subscription<Customer>` could be passed `Subscription<Customer & PaymentMethod>` since it would be implemented as a 'wider' type with `default_payment_method_id` and `default_payment_method` properties unlike the merged type Stripe has.

Cons:
- Having boutique types for every single Stripe type would still be a good deal of overhead

Option 3:

Never use expanded properties outside of Stripe library. All application behavior uses expanded properties that are always "string".
Stripe data layer can use expand, but we never return expanded types from the library and always break out data to non-expanded variants within our own library level before exposing them to the rest of the app.

Pros:
- Easy to maintain

Cons:
- Could result in more calls to the Stripe API
- Less "pretty" to have function require certain params, but arguably much clearer. For example a method that needs both a subscription and it's customer would have signature `myFn(customer: Customer, subscription: Subscription) …` rather than `myFn(customer: Customer<Subscription>) …`.

	• See some discussion here: https://github.com/stripe/stripe-node/issues/1556
M3 planning proposal [reino]	• (team voted not to break into groups to outline tickets)
Standup	•
	•
Walk ons!	•
[sticky] If there's time/interest - triage related updates	•
[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•
	•

Date: Sep 28, 2023
Attendees: Ben, Chelsea, Ivo, Lisa, Meghan, Bianca
Recorded:

Useful Links for Reference:

-

Topic	Notes

[ben] conventions for file naming	• Node Style guide has a convention for filing naming • Upcoming pr will rename a few • Class naming: https://mozilla.github.io/ecosystem-platform/reference/style-guides/node-style-guide#nestjs-file-naming-conventions ◦ To side of classes, shows file name expectation
Standup	• Reminder - submit Expense Reports! • Parking lot ◦ New ticket required, blocking 8240 (meg's ticket), likely a 1 pter - Benjamin Bangert / Reino Muhl to follow up/file
	•
Walk ons!	•

[sticky] If there's time/interest - triage related updates	• [meg] https://earthangel-b40313e5.influxcloud.net/d/4GHpr41Zz/event-broker?orgId=1&refresh=5s
	  ◦ RP Event Distribution (Failures) - spikes are okay as long as they're not sustained, typically
	• Event broker
	  ◦ This can feel disparate

[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•
	•

Date: Sep 21, 2023
Attendees: lisa, megster, ankita, julian, chelsea, kat
Recorded:

Useful Links for Reference:

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Topic	Notes
Standup only!	• Small crew - standup only 🙂 • Reminder - submit Expense Reports!
	-
	-
Walk ons!	•
[sticky] If there's time/interest - triage related updates	•
[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•

Date: Sep 7, 2023
Attendees: lisa, megster, ankita, kat, bianca, julian, reino, ben, ivo, chelsea
Recorded:

Useful Links for Reference:

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Topic	Notes

	•
	-
	-
Walk ons!	•
[sticky] If there's time/interest - triage related updates	•
[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•

Date: Aug 17, 2023
Attendees: ivo, meg, chelsea, kat, reino, ben, julian, lisa
Recorded:

Useful Links for Reference:

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Topic	Notes
Headless UI discussion [meg]	• Slack thread about it: https://mozilla.slack.com/archives/C05HCBPHNBZ/p1691003785704109 • Doc: FXA-7860: Headless UI Component Library - Competitive Analysis • Last message:

	○ Due to the last few Engg Weekly meetings revolving around higher priority items (e.g. catching up with Ben, RSC discussion, l10n, etc.), we never got around to discussing this. ○ Please review again so we can ask questions, discuss, and vote this week. ○ Notes: ■ I made one revision at the bottom regarding RSC as we have opted to go for it now. ■ If you have additional links/information to add, or questions, please comment. ■ If you have additional Headless UI Component Libraries you would have liked to see, please let me know ASAP. I have some bandwidth tomorrow between tag and SP sprint planning. ● Discussion: ○ Meghan walked through the overview of the document (above) ○ We won't be able to make the exact same changes across fxa and subplat at the same time - but fxa is interested in similar moves to what we're doing on subplat now in the future ● **Decision: RadixUI** ○ Thanks Meghan!
Demo (if applicable)	If you have a demo, add your name here plz - Julian - Contentful client example queries - Slack message - offeringQuery (suggest you open up the contentful dashboard, click apps dropdown then graphql playground which will pull up the schema) - You can build queries directly in there, so you can run the query shared by Julian today in the graphql playground directly - If you add a query, or change the query - you'll see the type of the variable is unknown because of the graphql wrapper, which comes from graphql codegen which will create a bunch of typings - If you call the query method with the offeringQuery without passing the right things you'll get a helpful error message - Can use the query method with any passed query, it will require you to pass the correct variable, and so long as the correct types are generated by the codegen you'll get what you need - If someone updated the contentful schema, but haven't updated the code (see highlights + channel),

	you'll need to put up a pr to update the codegen in the repo
	- Patterns:
	  - **One is to commit the generated types to the repo** - our preference
	  - Can continue developing as long as we're not touching the contentful client
	  - One is not to commit the generated types to the repo
	  - Generally want to keep generated things out of version control
	  - Problem is that any changes to the contentful schema is this will now break everyone's builds, ci, etc., to ensure these are updated before needing benefited on the fly
	- TLDR:
	  - If you update the contentful schema from here on out, it must include an update to the repo
	  - If there is a breaking change in the contentful schema (e.g., countries change from a single string to an array of strings), it will break things (e.g., factories)
	  - Any time we ticket out schema changes to contentful, it is acknowledged that the respective typings are updated and anything that is impacted via use of those typings is also updated.
	- Potential follow ups - later, not a part of this change
	  - Could add a CI check when we're preparing for a Stage deploy
	  - Decide a means of verifying that schema matches to contentful's current prod schema
	-

Standup	- Opt to skip standup today as we just planned yesterday? - Any blockers or parking lot items worth discussing here? - Go forth and https://fireship.io/courses/nextjs/basics-next-100s/
Walk ons!	●
[sticky] If there's time/interest - triage related updates	●

[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•

Date: Aug 10, 2023
Attendees: Reino, Chelsea, Bianca, Kat, Ankita, Ben, Lisa, Pseudo-Meghan, Julian
Recorded:

Useful Links for Reference:
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Topic	Notes

SRE: Discuss Next.js Stage deploy reino	• Just met with SRE to discuss the deployment
	• SRE preferred option: Option 2 - Create a separate pod for payments-next
	• Notes document
	• Discussion
	  ◦ Separate pod is different from a separate application that they were trying to avoid -
	  ▪ Pod is effectively a container. Generally it's desirable to avoid running multiple applications inside of a given pod.
	  ▪ Pods are in a container - a container is in a cluster
	  ▪ ~~Would be good to have a writeup from SRE on the differences between the preferred approach and adding an additional service~~
	  ◦ https://www.techtarget.com/searchitoperations/answer/Kubernetes-deployments-vs-pods-Whats-the-difference
	  ◦ https://kubernetes.io/docs/concepts/
	  ◦ How was the list generated for the existing routes for the payments server?

	■ Bigquery for production logs - could leverage this looking at ~1 week to get a complete list of the routes in 2.5 ○ What does the work look like to add a new service? Reino can share more about this when the second issue is in progress or completed ○
All Hands readiness Chelsea Lewis	• fxa/subplat team time / topics ○ 2023 Montreal FxA + SubPlat meetings • Pxi thunder talks ○ PXI Team Time Sign Ups ○ PXI Mana page • Other shenanigans ○ Team dinner w/ fxa on wednesday - chelsea will follow up with kat and ankita
3.0 channel + next sprint planning Chelsea Lewis	•
Office hours Tuesdays	•
Upcoming Stripe monthly	- Marnie has set up mtg agenda notes - Will add stripe.js questions - https://mozilla-hub.atlassian.net/browse/VPN-4756?focusedCommentId=713066 - Radar already implemented this and monitor it'll go out with their release - Marnie will invite gibson in monday to the stripe meeting - Clewis to pull in stripe regression - https://www.iubenda.com/en/help/110753-stripe-and-the-gdpr-how-to-be-compliant-test - Looks like everything lead pages w/ the stripe.js loaded will require cookie banners
Standup	• https://docs.google.com/document/d/1npPLTiWE3pjeq0sxQehOtgyOcbFgbectFyS2rSbwR1A/edit?usp=meetingnotes&showmeetingnotespromo=true
	•
Potentially defer - Fail gracefully discussion	• https://mozilla-hub.atlassian.net/browse/FXA-8085 ○ Couldn't find how/where to add where found (stage) - Jira is still a bit confusing for me all 😅

[meg] - next week	■ Found & Severity fields are only populated for Bugs (this was a spike initially) ○ Maybe we should/could discuss carving out plans for failing gracefully as the topic (different circumstances) has come up more than a few times; just a general discussion of how we can start incorporating this into tickets/SP3 work, etc.? Just a thought. ■ Is it a matter of error message content or can we do something upstream (correct me if I'm doing this backwards, but I mean "before") for preventative measures? ■ [bdanforth]: I talked to Reino about this for SP3. See also https://mozilla-hub.atlassian.net/browse/FXA-7487 and linked doc where I crunched some numbers for how prevalent this issue is. TL;DR: Very rare.
Walk ons!	●
[sticky] If there's time/interest - triage related updates	●
[sticky] Tips & Tricks, something you learned, something you want to show off ● Add tips and tricks that have made your life better recently	●
[sticky] Puzzlers	●

Date: Aug 3, 2023
Attendees: meg, lisa, ivo, ben, chelsea, julian, bianca, reino
Recorded: yes

Useful Links for Reference:

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Topic	Notes
Catching up with [bbangert]	● We're doing new things - we may learn that requirements change after landing things, and we ~~may~~ will learn that there are improvements along the way ○ e.g. Expectations, AC ● Polish PRs ○ If there are small (to define due to relativity) changes after an issue is completed, we may opt for a polish pr that either the original author or a reviewer, other teammate, etc., can pick up ■ Bianca and Ben did this last sprint - Bianca's work was done, landed in the sprint, and then they worked together to land some polish with some clear documentation of what was done and why ■ Bring the context of the polish pr back into the original ticket for context and ideally post a highlight in #subplat-3-0 channel to share what the polish work did, any learnings or new patterns, etc. ■ Don't want anyone feeling that they did something wrong because things changed after - this is not something that is 'wrong' with the initial, but optimizations, some shufflings, etc. ■ Goal that these are small, super reviewable, change some naming schemes, fix a tiny nit, move a few things around - but move quick, iterate quickly on our code, and make sure we have code that we all feel good about ■ Polish pr should be able to be done, reviewed, and merged all within the same day ● If it feels like it's being extended feel free to put up a draft pr and offer it up for anyone else to pick up if they feel they can do so quickly ○ questions/comments ■ In this case, there were a couple of prs which there were some fundamental differences in opinions on expected usage of these libraries - it would be really helpful to have a conversation about what that should look like (e.g., next topic) because the author of the ticket worked with multiple engineers over the last sprint in review, and we still had some changes later - there may not have been agreement between the subplat tech lead and the rest of the engineers

	regarding what that library should look like and how it should be used ● Polish prs should be defined and documented in ecosystem docs, doesn't talk about small quick cleanups, these can stack up - don't want 1 pters stuck in the backlog forever ● There's an entire meeting over fxa backend refactoring - and the meeting notes from that weren't going to be helpful to share, but as that was immediately before vacation ■ Process can help for visibility into what you're doing ● Ideally these are all really small quick things that go out ■ Github will properly support and display multiple authors if you use the correct 'with collaboration' tag ● Co-authored-by: ANOTHER-NAME <ANOTHER-NAME@EXAMPLE.COM> ■ Measuring the size of a polish pr by number of lines of code, number of files changes, amount of time it takes - none of those really represent the complexity, the departure from the original intent of the ticket, and the amount of time it takes to get something in ● Polish pr - if it's larger than your comfortable with (to sit within that one day window from polish -> review -> merge) ■ Do we omit the 'Closes' field in the PR description or add the linking PR it's a polish off of? ● Yes, we can omit closes because it doesn't close a jira ticket, but drop a comment in the original ticket for reference ● Backend Architecture ○ Much was laid out by Julian in tech spec 3, doesn't need to change much, but may want to take some of the things from the fxa backend refactoring to land in our ecosystem docs for expectations about layers of our code, what we envision the responsibilities of the layers being ○ In this thread from slack (subplat-3-0) ben shared some references of software architecture patterns https://mozilla.slack.com/archives/C05HCBPHNBZ/p1691001498639299 ○ Ben can provide more links and context as needed - software architectural patterns from 20 years ago are often still valid and important to note ○ https://mozilla.slack.com/archives/C05HCBPHNBZ/p1691087224000789?thread_ts=1691001498.639299&cid=C05HCBPHNBZ / https://www.freecodecamp.org/news/an-introduction-to-soft

	ware-architecture-patterns/#layers-folder-structure - our layers will be slightly different due to our organization Rough sketch of layers... So from bottom up, we have layers something like: DB Persistance: MySQL db/knex setup, Redis db class, Firestore class, etc. Model: Objection Models, Firestore db models/code, etc. Manager Classes: Higher level logic manipulating multiple models, etc. Business Logic: Account class that sets up and utilizes multiple Manager Classes, etc. that does more complex things like deleting an account, creating an account, making a subscription, etc. Services: NestJS specific services that initialize Business logic as needed ● Don't want to get too locked into a framework when we don't need to ● Will have follow-up tickets to document these processes in our ecosystem docs (polish prs + architecture) ● When or where decisions are made, how they affect tertiary decisions, server components (re: fxa-8118) ● Feel confident that moving to react server components is worth doing - originally thought we wouldn't because it wasn't stable, now it is and it solves a lot of the issues that we were considering ● If rsc doesn't work with storybook now, we can come back for storybook later - that's how subplat 1 and 2 were designed - test it, go down the path - document it, refine it - over half of the adrs written for fxa/subplat historically were written in post ● Is this thing we landed bringing us benefit? Is it working for us? ● If we want to look at using something we haven't used before, maybe we have an auto-docs or screenshot service that help us out ● What were we doing previously, is that helping, do we have to specifically ● How will this affect our milestones and timing ○ If we have to change direction after landing something ○ If we push storybook out ● FXA-8118 - the adr, the discussion - and what's next for RSC ○ Performance does matter but is not the primary reason that ben aims for in rsc ○ This is the future and default that nextjs recommends ■ Everything in the app directory is a rsc, their layout, etc., and their recommendation is that the only client components are interactions ○ We're building something brand new - let's hitch our wagon up front rather than migrate later which they're already

	setting up their paths for, otherwise immediately saddled with a migration plan ○ Will there be a clean workaround for fluent? The fluent team is working on an entirely new system, our current l10n handling is incredibly bespoke ○ The fluent bundle appears straightforward and minimal - not hacky - we'd have to build a bit of scaffolding around the fluent bundle but it'll work. This feels much cleaner than the current l10n in fxa. When the new thing ships, get it done SURFACE your findings! Should we revisit something? Maybe not a high ROI? ○
FXA-8118 pointing	● https://mozilla-hub.atlassian.net/browse/FXA-8118 ○ Are we addressing this meeting? ○ Ben's recommendation would be to delay the ADR - and ideally if we'd like to use rsc, go with ivo's option 1, implement and assess the path, that we like it (or don't) somewhere around that time
	●
Fail gracefully discussion [meg] - next week	● https://mozilla-hub.atlassian.net/browse/FXA-8085 ○ Couldn't find how/where to add where found (stage) - Jira is still a bit confusing for me all 😅 ■ Found & Severity fields are only populated for Bugs (this was a spike initially) ○ Maybe we should/could discuss carving out plans for failing gracefully as the topic (different circumstances) has come up more than a few times; just a general discussion of how we can start incorporating this into tickets/SP3 work, etc.? Just a thought. ■ Is it a matter of error message content or can we do something upstream (correct me if I'm doing this backwards, but I mean "before") for preventative measures?
	●
	●
	●
Walk ons!	●
[sticky] If there's time/interest -	●

triage related updates	
[sticky] Tips & Tricks, something you learned, something you want to show off ● Add tips and tricks that have made your life better recently	●
[sticky] Puzzlers	●

Ad Hoc Sesh
Date: Jul 28, 2023
Attendees: Chelsea Lewis Reino Muhl Ivo Plamenac Lisa Chan Meghan Sardesai Julian Poyourow Bianca Danforth Bryan Olsson Lauren Zugai

Useful Links for Reference:
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Topic	Notes
Should we be using app router/RSC - effects on l10n approach [Ivo]	*Notes pre-meeting from Ivo* ● These were 2 parts of nextjs we adopted after evaluating FE frameworks and the initial tech spec - we initially wanted to be able to salvage our l10n approach/have a similar implementation to fxa ○ App router was only moved out of beta as of june ■ Default for app router is RSC ○ Spoke with Eemeli - his insight is that fluent/react and RSC spec should allow context to be used but that nextjs made the implementation decision to not allow React Context which fluent/react is “strongly build around” ○ Been working through Monitor’s example ■ Havent been able to circumvent the initial error with a similar implementation but even if we get around the ReactLocalization context error we are still prohibited

from using the rest of the fluent/react api such as Localized
- I was able to get a similar approach to loading bundles and doing l10n on server components with fluent/bundle
- If we cant use any context or <Localized> it means for the time being we wont be able to share any react stuff with fxa unless/until they implement a rewrite

    - next does have an example of a client side provider pattern for use with server components but i am not certain of the performance/debugging implications here. Additionally it would still prohibit us from using <Localized> and other fxa-react code
  - fluent/react stuff seems to work out of the box with client components
    - Has able to basically drag and drop stuff in and had it working in a few minutes
- What are the benefits to being early adopters of app router/RSC?
  - Is there a benefit to either our team or our RPs?
  - Is there a change to de-risk parts of subplat 3 and salvage some of our previous work?
  - Are these benefits outweighed by bespoke solutions that may be hard to maintain?

Jul 28, 2023 Slack huddle
Notetaker: Bianca
Ivo: Options:

- Keep RSC using Monitor's approach to get around inability to use Context
  - The way it works now: LocalizationProvider is passed in navigator.languages which fetches FTL files for browser locales.
  - No navigator.languages or React.Context in RSC (can't use createContext)
  - Their workaround:
    - Instead of importing React.Localization from fluent/react, have to drill into the ES Module and pull it from there rather than use the exposed API.
    - If implementation details ever changed, that could cause problems.
    - Other issue: no access to DOM APIs in RSC
      - Their implementation relies on what environment they're in:
        - Storybook
          - Don't pass in a markup parser
        - Else

	■ Write own markup parser, since they don't have access to `document` from the web API. ■ Also have to stub out `document` server-side with `js-dom`. ■ Can use fluent/react to build the bundles, but can't use fluent/react to localize any of their components. ● E.g. AddEmailDialog component ○ `l10n` object is an extended version of their custom React localization object. Also can't use `Localized` component, since that relies on `React.Context`. ● Monitor already wasn't using `Localization` prior to moving to NextJS so less for them to lose. ● Talking with Vincent on the Monitor team: ○ Their team tends to favor the `l10n` methods rather than `Localized` components. They're fighting the framework to use fluent/react. ○ We want to avoid bespoke implementations ideally. ● Use fluent/bundle instead of fluent/react with RSC ○ Avoids issues with having to use js-dom and run React.Localization server side. ○ To generate the bundles, we do it server-side I read the files from the local file system and create the bundles manually. We could do this only at start up and shared across all requests. ○ In the component itself, you have to grab and parse the AcceptLanguage header, and instead of using navigator.Languages, you can use that. ○ Use `l10n` methods here instead of `Localized` component from react/fluent. ● Client components (no RSC) ○ Getting l10n to work with client side components was very easy; salvages implementation from 2.5. ○ Same approach currently used by FxA and supported by Fluent. ○ Can use our familiar `Localized` component. ● I18n package from NextJS (in Beta) for RSC ○ Routes-based approach for determine locale. Locale is part of the route. ○ Similar to how fluent/react works, but we'd have to parse all our FTL files into JSON objects that can be consumed by NextJS's I18n package. ○ See also this question Ivo's thoughts:

	● It makes sense to ditch RSC and use client components, so we can share React components with FxA. ● With how new RSC is wrt React and NextJS, might behoove us to wait. Questions: ● Bianca: For Bryan, are there plans to support RSC with Fluent? ○ Bryan: Eemli would be the best person. Not a lot of effort on Fluent right now. Different implementation is being focused on right now: Message Format 2.0 ○ Ivo: Eemli said there's nothing in RSC spec from React that prohibits using React.Context, this was a decision by the NextJS team. ● Lauren: Is Message Format 2.0 going to replace Fluent at some point? ○ Bryan: It's pretty long-term. I wouldn't expect any changes in the next couple of years. Trying to design it with Fluent in mind to make migration easier. ● Bianca: Seems like main benefit is perf for RSC, which is not a goal for SubPlat 3.0 per the PRD. ○ Ivo: I profiled some of our pages relative to other pages that are more complex like youtube.com. ■ Our page ● Largest Contentful Paint happens around 1s. Everything after is mostly PayPal stuff. ● DOMContentLoaded around 200-300 ms. ● Our page is fairly fast. ■ Amazon.com ● LCP ~2s ● FCP: ~1s ● Highly optimized and much more complex than ours ■ Youtube.com ● LCP: ~2.6s ● FCP: > 1s ● Highly optimized and much more complex than ours ■ Wikipedia.com ● LCP ~1s ● FCP ~500ms ● Reino: It's not just page performance for RSC. It also does simplify development quite a bit. ○ Like you said, not too much going on on our pages. RSC brings it back to working with pretty standard HTML. ○ You colocate everything in one component so data fetches occur in that component. ○ It is different from how we're doing stuff right now. ○ No hooks available in RSC. Get data and show it on the page.

	○ Ivo: With how new RSC is, I don't think there's not a lot of tooling. ■ In DevTools Network Monitor, looking at the RSC requests, they have their own wire format ■ Attaching VSCode debugger with RSC I wasn't able to get working; FWIW I've added some launch.json configs in the past and with my prior experience I wasn't able to get it working. ● Reino: If it's useful, maybe I can give a little context into how we arrived here re: the original decision to use RSC ○ At the beginning of the year, NextJS's AppRouter was still in Beta, so we used the PageRouter. ○ First version prototype stated we plan to adopt AppRouter when it becomes stable. ○ Around May, App Router switched over to stable release. ○ Why we looked at NextJS and Gatsby: We decided SSR was the way we wanted to go. In a way RSC is a better version of SSR. You can just call the DB or API directly with near-0 latency. ○ We're starting development now. By the time we go to production, it will have been a year of development where the dependency ecosystem will have caught up. ○ We also looked at server actions. But this is still in alpha, and there's not much documentation around it. ○ Monitor got it working not just with RSC but also with Storybook. ■ Ivo: Getting something working and doing a large re-write where we're trying to avoid bespoke implementations seem a little different. ● Chelsea: Reminder: A group this size will not get to a decision during the meeting. ○ Formally, we should start a decision brief for this. Outline pros and cons for each option. We also want Ben to weigh in on. ● Ivo: If we do stick with RSC, I'd suggest we don't use Monitor's approach but instead fluent/bundle. ● Bianca: If we use RSC, it seems like we won't be able to use FxA components at all (since they use React.Context and `Localized` components and client side components exclusively). ○ Julian: We won't be able to use `fxa-react` in any integrated apps as-is. ■ We would need to rewrite `fxa-react` as an `nx` library. ● Bryan: For NextJS I18n package: is it a matter of reformatting the Fluent files in some way? ○ Ivo: Also they pull locale from the Route

	○ Bryan: Does that work with on the fly variables? Fluent does a lot of I18N like converting numbers/dates to the correct format. ○ Ivo: It does support variables, but Fluent is pretty robust in that regard, and I don't know how much of that can be salvaged. ○ Ivo: I would rule out this approach: it's a different file format, it uses a route based approach for locales, it's still in Beta. Ivo: What are our most important goals here for SubPlat 3.0? ● Reusable code ● Performance ● Reduce complexity ● ...? Reino: It isn't an all or nothing approach. We can start small with some components where we get the most value. Also make foundation so that we can adopt server components. ● Bianca: We'll always have client components since RSC can't have interactivity or event listeners. ● Reino: It's considered an add-on. Next steps: ● Chelsea: Let's get together those POCs for the different approaches. ● Bianca: **ADR** or Decision Brief? Seems like ADR since largely technical. ○ Chelsea: Whether we need outside input (non-engineering) as part of the decision determines which is most appropriate. ○ All: Let's try for ADR first and we can change to a Decision Brief if needed.

Date: Jul 27, 2023
Attendees: Chelsea Lewis Reino Muhl Ivo Plamenac Lisa Chan Meghan Sardesai Julian Poyourow Bianca Danforth

Useful Links for Reference:

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Topic	Notes
[clewis] Reviews, risk tolerance, and so on as we move into 3.0	● Some general thoughts from the discussion - purposefully not including naming things, folks, please feel free to contribute here though ○ Maybe we are optimistic and are unconscious to some of the risk that we take on ■ A ticket that has a lot more work

	● Create more tickets ● Big pr that closes several issues ● Steeper learning curve ○ If someone else - especially someone who only works in a more singular perspective - is sizing things initially, it can feel like we're dealing a blow ■ Dynamic has changed with the building up of our team - everyone on the team is much more familiar with how things work, the processes, the codebase ■ Team-oriented breakdowns early on helps a lot with this ■ there are still non-product non-engineering questions that come up - how can we bring the right people in at the right time ○ Rest/Rush ■ Often surprised by the ones that are more difficult ● Themes of the surprises? ○ Bespoke implementations of something where someone might not have set up who is still on the team ○ If patterns were departed from later in the code ○ Minimizing the bespoke implementations would go a long way for code maintainability and consequently team health ○ Initial implementation of react is very different from the standards that we're developing against today and often means we're having to gapfill unexpectedly ○ Slowdowns and large tickets occur when we're doing things that aren't good patterns ■ Typescript is a particular pet peeve ■ Skirting the rules ■ Dealing with many of the react 18 things - because we didn't keep up wth the current curve we had a bigger lift to make it work ● Siloed work ○ Mini projects a year ago - everyone was doing their work independently - and over the last year we've focused on having much fewer projects at a given time ○ Still feels we're working in siloes ○ Pair programming or working with others are different ways to address a similar thing

	○ Feels not great to hear that people are feeling like they're banging their heads against the wall late at night because we can help each other out, learn new ways to do things ○ Not everything can or will be in the ticket ● What can we do to help each other? ○ Post things - learnings, questions - whatever - to channel. ○ You don't necessarily have to "pair program" in its traditional meaning to be able to help each other. ○ Pull request reviews - conversations that happen around that pull request reviews - would be really helpful to have in that subplat channel ○ Announcing pull requests as they're merged in channel ■ I merged this. It did this which will be useful for that. Check it out! ■ If it sets a new standard, introduces something new...whatever. ● Are you comfortable if someone who is not your assigned reviewer comments on your PR? ○ No ■ Elements of distrust ■ Feelings of 'design by committee' - leaves author or pr ■ When it's a draft or wip and the comment is about something you are missing (but you intend to do), it takes time away or out of your zone reading comments about it. ■ ○ Yes ■ Not about trust for me. If I can jump in, I want to give some input or thoughts - not reviewing every single nitpick in a PR, stylistic things are not valid in a code review. Taking some time out to sharing the thought - my input - maybe they didn't think about it, might conflict with my track of work - whatever it happens to be. ○ Questions? ■ If someone who isn't the reviewer jumps in with a question or request, do you expect that to be addressed? ● Yes, with discussions - it's collaboration. ● What are the issues that really matter? ○ Avoid stylistic comments, preferences, etc. ○ When it's a draft or wip and the comment is about something you are missing (but you intend to do), it takes time away or out of your zone reading comments about it.

	■ Perhaps draft should be treated as both “it’s not ready for review”, and shouldn’t be commented on by team members unless specifically requested ● Agreed. I adopted Ivo’s and Lisa’s preference to write todos in the pr. But someone still commented once that I was missing something (that was on the todo list). So not commenting unless requested sounds like a great idea! 🙂 Otherwise I do like feedback. ○ When decisions are made, who are making them? Where are they made? How can we speak to them? ■ Leverage our channels - communicate openly - decision makers may miss things - don’t put people on blast “you screwed up” but “i see a potential problem with this approach”
[clewis] subplat 3.0 decision brief & next steps	● Please contact Chelsea if you’re interested in planning this effort!
Fail gracefully discussion [meg] - next week	● https://mozilla-hub.atlassian.net/browse/FXA-8085 ○ Couldn’t find how/where to add where found (stage) - Jira is still a bit confusing for me all 😅 ■ Found & Severity fields are only populated for Bugs (this was a spike initially) ○ Maybe we should/could discuss carving out plans for failing gracefully as the topic (different circumstances) has come up more than a few times; just a general discussion of how we can start incorporating this into tickets/SP3 work, etc.? Just a thought. ■ Is it a matter of error message content or can we do something upstream (correct me if I’m doing this backwards, but I mean “before”) for preventative measures?
	●
If there’s time/interest - triage related updates	●
Walk ons!	●
[sticky] Tips & Tricks, something you learned,	●

something you want to show off ● Add tips and tricks that have made your life better recently	
[sticky] Puzzlers	●

Date: Jul 20, 2023
Attendees: ivo, chelsea, julian, meghan, lisa, reino, rebecca
Absent: bianca (pto), ben (pto)

Useful Links for Reference:
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Topic	Notes
[ankita via rbillings]	● When will manual and automated testing begin for 2.5? We'll see post-decision below.
[clewis] decision brief	● Hot takes? Questions? ● [ivo] Is there a general leaning toward one of the options right now? On Option B because it is a little bit of both worlds ● [julian] Either option b or c feel like they would require a much more robust development of contentful and to make it work with 2.5 ○ [reino] we had a product config to firestore project last year - a lot of work in planning around making that work - mapping from stripe to firestore view, etc., ○ One library which is currently used by the frontend in a lot of places that we'd have to rework to match contentful ○ Most of what we see in the content model (in contentful) today is informed by what we have in stripe now, mostly 1:1 mapping although it might look a bit different ○ Not as much of a mismatch as we feared - some work we have to do at least for relay ■ Relay has relay product, with two 'offerings' email and phone, and that would need to be more creative to make it work for 2.5 ■ Offering maps to Stripe Product

	■ There's a couple of routes to deal with this ○ Upgrade paths ■ Changes from current content model which is based on stripe - which handles it slightly differently ■ Would change eligibility validation for upgrades between different product offerings ■ Ben brought this up and felt confident but we don't have a lot of details on it ● [reino] with option b we'll be able to reduce the number of plans a bit - instead of having 3-4 plans per language we can go down to 1 (per currency, per billing interval, per offering) ● [ivo] like options B or C ● [julian] if we do options b or c - we should move things into reusable libraries through nx so we are refreshing the code as we do it rather than moving around tech debt. Would add some overhead to this b or c option but i think it would give us more value as we're not doing throwaway work so we can use it for what's to come. ○ [reino] +1 - i don't want this to be something we're rushing in now, - the new/throwaway work should be limited and only in payments 2.5 - everything else should be as was expected before ● [everyone in attendance] we're all good with options b or c, with the jist: "as long as we're moving things into libraries, updating the structure of our checkout behavior, and separating out 2.5 vs 3.0 behaviors"
Walk ons!	●
[sticky] Tips & Tricks, something you learned, something you want to show off ● Add tips and tricks that have made your life better recently	●
[sticky] Puzzlers	●

Date: Jul 13, 2023

Attendees: ivo, bianca, chelsea, ben, julian, meghan, lisa
Absent: reino (pto), rebecca

Useful Links for Reference:

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Topic	Notes

[clewis] lunch + learn topics	• I'm planning to create a loose schedule of learnings for our team over the next quarter which I'll invite you all to sign up to host. If we don't have a host, we'll work to find a guest speaker or an online resource (udemy course or otherwise) to fill in.
	• These will happen - as much as possible - within the SubPlat Eng Weekly (this) meeting, and potentially in FxA Lives or SubPlat Weekly if those audiences are a better fit
	• Some likely topics:
	  ◦ Run FxA on a VM to free up resources on your work machine among other benefit (Ben has an ecosystem docs page on this as well)
	  ◦ How to use tracing with specific examples for when it comes in handy
	  ◦ MySQL versus Firestore. Reading from/writing to local/stage DBs
	  ◦ Next.js, including topics such as server vs. client behavior, server components, server side rendering, and the app router
	  ◦ GraphQL
	• As such, I've spun up a lazy resources doc for us to begin documenting some of the many suggestions, links, etc., which have been shared and would be helpful to date. Please feel free to contribute! This is now in our subplat 3 folder within the subscription platform shared drive
	  ◦ SP3 Engineering Development Resources

Walk ons!	• [bdanforth] Marco's request to see if we can further break down the four eight-pointers in M1 for SubPlat 3.0.
	  ◦ Tldr:
	  ▪ Did not split out anything
	  ▪ Added 13 points to our story points doc to be leveraged when something is "bigger than an 8 and must be broken down"
	  ▪ If something is a 13 - it is NOT ready for engineering until it has been broken down
	  ▪ Pinged marco in the Risk ticket as it has been realized and is being worked on in Julian's current spike.

[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•

Date: Jul 6, 2023
Attendees: ivo, reino, bianca, chelsea, ben, julian, meghan, lisa, rebecca
Absent:

Useful Links for Reference:

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Topic	Notes

Server Components discussion [reino]	• React Server Components with Dan Abramov, Joe Savona, and ...
	• What's a good *first* recommendation if you're brand new to server components?
	  ◦ React Server Components - Good discussion on difference between SSR and RSC
	  ◦ RSC from scratch - Part 1
	  ◦ RSC vs SSR vs SSG (New)
	  ◦ Understanding React Server Components (New)

Briefly chat about declined card customer issue [meg]	• https://mozilla.slack.com/archives/CG0AJ6E77/p1688487208249819 • Customers card was declined by bank, then blocked by radar rule after that • https://dashboard.stripe.com/customers/cus_JLKLwEyR99UFJ6 •

Walk ons!	•
[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•

Date: Jun 29, 2023
Attendees: marco, chelsea, bianca, reino, lisa, julian, meg, ivo
Absent: ben (sick)

Useful Links for Reference:

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Topic	Notes
Relative Estimation Exercise	• https://1drv.ms/x/s!AuFRYG6dkmv16H2YD3vLlI1UIbtS?e=Tg2UEb
	•
	•
	•
	•

Date: Jun 22, 2023
Attendees: Marco, Chelsea, Lisa, Ivo, Reino, Julian, Meghan
Absent: Ben and Bianca (PTO!)

Useful Links for Reference:

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Topic	Notes
- *Reminder - short meeting (30 mins) today, demos coming up next!*	

SP3 - Milestone 1 - Foundational Work [reino]	• Detailed introduction to Milestone 1 - Foundational Work
	• https://mozilla-hub.atlassian.net/browse/FXA-7500
	• [Reino]
	  ◦ Won't run through each of the tickets within this time, but will give a more detailed overview of the Milestone 1 work.
	  ◦ Goal: Give a brief intro into what's within the tickets for this effort. Discuss/review Acceptance Criteria so that we know/agree on what it means for a milestone to be Complete.
	  ◦ To get the most value out of the session on Monday, **all engineers should review the tickets for this epic before our SubPlat team meetings Monday. Add questions directly to the tickets or reach out in #subplat-team, to Reino Muhl, etc., as you see fit prior to the mtg so we can cover as much as possible together synchronously.**
	• Adding sp3-related labels to the known work
	  ◦ Reino and ~~chelsea~~ Marco will do this together through the magic of bulk editing
	• Next steps:
	  ◦ We as a team will go through the tickets within the linked epic (coinciding with Milestone 1 of SP3) at our SubPlat Team Mtg/Triage Monday. Before this session, to the extent possible with a shortened timeframe, please do a read of the tickets in the epic, dropping comments or questions within the tickets or in subplat-team as you see fit.
	  ◦ Overall timing:
	  ■ - team preps by reading FXA-7500 tickets prior to monday team mtg
	  ■ - at monday team mtg, Marco gives us a quick overview of relative estimation process + artifacts
	  ■ - also at monday team mtg, reino leads us through individual ticket review to ensure we have a shared understanding of the work proposed. questions may continue to come up through this process and into our relative estimation phase.
	  ■ - at Thursday eng weekly, we'll do Milestone 1 Relative Estimation. Marco will lead us through the process. Everyone votes (easy/moderate/hard) on each item, then we go through and point all the Easy, then all the Moderates, etc.

	○ We'll repeat the process through Milestones 2, 3, and 4 in coming sprints.
Sentry - Getting some interesting errors [reino]	• https://mozilla.sentry.io/share/issue/da6389ca0df24bf29b24fea58220a7cf/ • https://mozilla.sentry.io/share/issue/333aa3d56edc470b9d3000688c9406cb/
Walk ons!	•
[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•

Date: Jun 15, 2023
Attendees: clewis, megster, ivo, lchan, reino, julian
Absent: ben (pto), bianca (pto)

Useful Links for Reference:

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Topic	Notes
[clewis] reminders	- *Quick reminder that we're starting some demos next Thursday. Super quick, don't 'prep', read the invite and ping marnie in our subplat-team channel with questions.*

[rmuhl] SP3 Example components	• Intro - Next.js from Pages Router => App Router (+ Server Actions)
	• Concepts - Next.js AppRouter + Server Components
	  ◦ Next.js - React Essentials
	  ◦ React Server Components - Good discussion on difference between SSR and RSC
	  ◦ Next.js - App Router Migration docs (Especially Step 6 - Migrating Data Fetching Methods)
	• High level walk through of SP3 example components in PR 15416

[ivo] Short overview of some hapi response validation stuff	• Dan and I did some experimenting with onPreResponse, onPostResponse, the hapi boom object, and h.continue • Trying to move more sentry logging to sentry.js • Identifying request validation vs response validation
	• https://nx.dev/more-concepts/applications-and-libraries • Create project structure proposal
Walk ons!	•
[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•

Date: Jun 8, 2023
Attendees: Lisa, Chelsea, Bianca, Ivo, Meghan, Reino, Julian, Ben

Useful Links for Reference:

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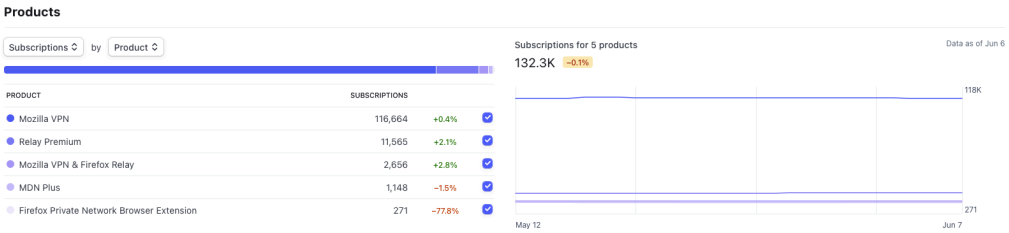
Topic	Notes
[clewis] async poll	This will be a busy meeting so opting for this to be fully async - feel free to respond below before/during/after mtg. *We have eng weeklies for 1 hour every week. Are y'all open to try carving 30 mins out of every other eng weekly (for the day following sprint close) for those demos?* *+1 w/ your answer and drop any notes below. Don't worry about signing them - just share your thoughts.* *YES +1 +1 + 1* *NO* *MAYBE* *Questions, comments, concerns* -
[lchan] Prod functional-tests	[spike] All subscription functional tests fail in production **Reason functional tests currently fail/skipped in prod:** ● Tests are timing out as they are trying to navigate to/load a page that does not exist/has not been set up in Stripe Prod/123Done ● Test payment methods (Stripe/PayPal) are not set up in functional-tests **In order to enable these functional tests, we will need to do the following:** ● Evaluate how to handle test accounts and metrics that will be created/logged each time we run functional tests in prod ○ Could we scrub fake prod products from the dashboards, or exclude them from metrics, etc? ● Set up stack for Stripe Prod - Test mode ○ Currently there is a prod product in test mode with plans similar to the ones outlined for stage-123done.herokuapp.com but it displays Plan not found: No such plan for this product ● Enable test payment method for prod in functional tests ○ Use test API keys to use test cards ● Update/re-deploy 123Done ○ Include production-123done.herokuapp.com in the switch statement in /123Done.js

	○ Add/revise prod/plan in subscriptionConfig ● Add production-123done.herokuapp.com to webservices-infra and cloudops-deployment repos, as we did with stage-123done.herokuapp.com, so it does not return 401 unauthorized error due to CORS Missing Allow Origin
[bdanforth] Why are there so many more subscription ended events from auth server logs than Stripe canceled subscriptions for the same period?	● (Time permitting else we can kick to next week) ● First, summary of my metrics spike, FXA-7311 ● Second, I'm getting 1495 subscription ended events and 208 subscriptions canceled in Stripe. Why the big difference? ○ I deduped by webhook event ID and accounted deleted customers (15). Seems almost 1:1 for unique uid versus event. Am I pulling in the right Stripe data? ○ No Stripe webhook failures per Grafana in the time period I'm evaluating (05-31-23 to 06-06-23). ○ No unusual or elevated suspected fraudulent activity based on no Stripe request spikes in Grafana for this time period. ● My suspicion is that the webhooks are more correct than the dashboard, and the dashboard data is opaquely omitting things, which I have run into before. ○ That would align with a very slightly negative growth rate on subscriptions count in the Stripe analytics dashboards (we got about 1000 new subscriptions in this time period). 
[rmuhl] Approach to GA tickets	● FXA-7279 - Investigate adding GA to SubPlat checkout pages
	●
Walk ons!	●
[sticky] Tips & Tricks, something you learned, something you want to show off	● [bdanforth] [DEMO] SSHing into CircleCI VM to debug CI-only test failures ○ https://circleci.com/docs/ssh-access-jobs/ ○ You need SSH keys added to GitHub (which you probably already have, since we require our commits to be signed) ○ Then in the CircleCI dashboard for a failed workflow, you click “Rerun job with SSH”.

• Add tips and tricks that have made your life better recently	○ Once it gets to the “Enable SSH” task in the workflow, expand the task and it gives you a command to copy and paste into your terminal to connect you to the CircleCI VM via SSH. ○ This helped me debug a CI-only test failure in FXA-7364 • The issue was different env var config in CI relative to local • You can see the env vars for a given PM2 process in CI via `npx pm2 env ${processId}` (or `pm2 env ${processId}` locally) 1. The process ID is from `pm2 status` and is an integer. E.g. for me, `auth` was `3`. • I determined that we don’t have MaxMind available in CI just like local (it’s a paid third party service deployed by SRE only in stage and prod), and we weren’t overriding the location with the GEODB_LOCATION_OVERRIDE var in CI like I was with local to get the user’s `country_code` for a metrics test. 1. (FWIW that wasn’t the right fix in this case, but that helped me identify the right fix.)
[sticky] Puzzlers	•

Date: Jun 1, 2023
Attendees: Reino, Bianca, Julian, Lisa, Chelsea, soon-to-be Meg

Useful Links for Reference:
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Topic	Notes
Self-assessment chat [clewis]	REMINDER! Your self assessments are due by 5pm PT Wednesday June 7 • Confluence - Current Cycle: 2023 H1 Performance and Rewards Cycle • Confluence - Performance Assessment Questions (See: Self Reflection) • Confluence - Goals and Goal Setting • Confluence - Continuous Feedback Guidance shared last cycle: • Keep it simple and straightforward - you don’t need to provide a lot of prose to communicate your accomplishments; bullet points are easier to read, parse and remember. • Include useful links… if you worked on a particular Epic or project, or wrote an important document, add a link to it.

	• Focus on your impact - what did you **accomplish**, what was the **outcome**, what was **impact** and what did you **learn**. • Review the CLG - and communicate about your work in the context of the attributes we value and what is expected for an engineer at your level. This is helpful when you talk about what you learned from a particular project you contributed to or led.
productSet/productOrder and our RPs [clewis]	• Maybe read-only? • This week we had several Support questions revolving around folks not being able to upgrade from one plan to another in #subscription-platform • Found through manual audit that some are set incorrectly (en_emails / en-emails mismatch) • Through additional manual review caught that several plans are either missing metadata entirely or are using a metadata field which is invalid ("productSetOrder") • Ben did a mass grab of the current metadata from the API and found a lot of examples of missing or incorrect information for the relay group - and likely for the VPN too. Findings here • Chelsea is working on a rec for how this data could or should be laid out for a more maintainable set of metadata in https://mozilla-hub.atlassian.net/browse/FXA-7616

GA events [reino]	• Google Analytics Spike discussion https://mozilla-hub.atlassian.net/browse/FXA-7279
	• Additional ref
	  ◦ S&P team recommends going to GA4 immediately rather than GA3 then GA4, duplicating efforts https://mozilla-hub.atlassian.net/browse/FXA-6300?focusedCommentId=689799
	  ◦ Example begin_checkout event from VPN page: https://mozilla-hub.atlassian.net/browse/FXA-6300?focusedCommentId=689817
	• Questions or concerns:
	  ◦ [meg] Clarification from Reino's chat: wasn't sure if it was explicit that this was only new customer flow
	  ◦ [meg] If we only track success, we don't know how many or what failures are occurring
	  ◦ [meg] Are we tracking coupons?
	  ◦ [bianca] FxA looks like it's going in Glean direction. How does this affect us as we share a same codebase?
	  ▪ [ben] "FxA has had GA requested on it, but due to security restrictions on the domain cannot include 3rd party JS, so that's why they don't have to have GA."

	○ Q: why have they ignored the existing metrics they requested and have gone :homerdisappear: on multiple requests about it. ■ A lot of effort was put into making it happen ○ What is it that we can't do with UTMs, acquisition tracking parameters, etc? ● Recommendations: ○
Relative Estimation and planning for 3.0	● Julian and Reino are working on a set of example components for 3.0 (by end of sprint) ● Not next monday but the following Marco will show the relative estimation spreadsheet & Risk treatment ● Expected steps next sprint ○ Before relative estimation, we as a team will review all epics, all stories - get any questions, clarifications, etc., out there as a team - likely a couple of sessions ○ Relative estimation will be one session, view a list of all the tickets, quick estimations "easy moderate hard" buckets, then do entire process again in the easy bucket to assign specific points to those
	●
Walk ons!	●
[sticky] Tips & Tricks, something you learned, something you want to show off ● Add tips and tricks that have made your life better recently	●
[sticky] Puzzlers	●

Date: May 25, 2023
Attendees: bianca, meg, lisa, reino, ivo, ben, clewis

Absent: julian (pto)

Useful Links for Reference:

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Topic	Notes

Stripe/Google/Apple API fails and graceful degradation [meg/bianca]	• FXA-7487
	• Affected areas: Settings, SubMgmt, Admin Panel and Checkout (success screen)
	  ◦ All use same APIs underneath so we'd have to work with FxA as well
	• When there is any error, returns a 500 and nothing can be loaded
	• Ideas:
	  ◦ [bianca] try/catch with error property that gets returned and we'll know how to handle it on the frontend
	  ◦ [ben] graphql already has the notion of doing what bianca suggested - https://www.apollographql.com/docs/react/data/error-handling/#graphql-error-policies
	• Reino: I agree with Bianca it's mostly a front-end issue; how to handle partial load failures will depend on what subset of content we do successfully load.
	• Sidebar
	  ◦ Ivo: Do we want to always show SubMan even if they don't have subscriptions?
	  ▪ Bianca: Yeah we have thought of that for other UX reasons too like submitting a support ticket.
	• Next steps:
	  ◦ Reino: Could update the API for now to give back partial error state. Not a pattern we have yet for FxA and SubPlat at the moment.
	  ◦ Before or after SubPlat 3.0?
	  ▪ Probably after, since GraphQL makes this easier and it doesn't seem to be extremely common.
	  ◦ Bianca: I've asked Support for a list of affected user IDs in prod to ensure this is pretty small in volume right now.

[reino] Sec Bug walkthrough	• Demo: Quickly walk through the security bug (PR for fix) identified last week. • Currently link includes url param that directs you to correct legal doc • Problem/risk occurs when link is shared with a different url param (implicit protocol) • Solution: checks and compares link to product metadata; if it matches it's good but if not, didn't come from us and gets rejected ◦ https://mozilla-hub.atlassian.net/browse/FXA-7481

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[clewis] Story Points and Relative Estimation	• I [chelsea] will be joining late, but if time allows I'd like to run through a first glance at a draft edit for our estimation guide
	• [Draft] Subscription Platform - Relative Estimation/Story Point ...
	• Discussion
	  ○ [ivo] likes the idea of going up to an 8 or a 13 so that we can have more honest conversations about things (rather than a "large 3"
	  ○ [meghan] communicated wanting to be more conservative because she's not entirely sure if she's aligned to others' understandings of what comes into an SP
	  ○ [bianca] while this is being proposed as part of 3.0 it might be helpful to grab some historical reference for example
	  ■ [clewis] yes agreed and
	  ○ [ivo] in triage I jump into topics more if a ticket is something he's more familiar with, less confident in giving a specific SP but with the categories (easy moderate hard) might be easier to jump in
	  ○ [ivo] had an experience on a former team which was much smaller where they required every eng to vote & to align across the board on points, time intensive but it was good to knowledge share
	  ■ Maybe some subset of this could be good to try out?

Walk ons!	•
[sticky] Tips & Tricks, something you learned, something you want to show off • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•

Date: May 18, 2023
Attendees: ivo, meg, reino, chelsea, julian, lisa, ben, bianca

Useful Links for Reference:

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Topic	Notes
Invoice Immediately Upon Upgrade	• Epic Overview, ticket refinements • https://mozilla-hub.atlassian.net/browse/FXA-7001 or FXA-7349, need to update ticket and will re

Canadian holiday monday	• Meghan will be out of office, who can jump in to lead triage?
	  ◦ Clewis rec's that someone who has benefitted from someone else taking on their triage ownership due to holiday or PTO signs up for this
	  ◦ Ivo's got it - thanks Ivo
	  ◦ Clewis updated notes doc to ref this decision :)

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Walk ons!	•

[sticky] Tips & Tricks, something you learned, something you want to show off
• Add tips and tricks that have made your life better recently
	• [bdanforth] LogSeq demo:
	  ◦ LogSeq is an open source, privacy-first PKM (personal knowledge management) system Ben originally told me about.
	  ◦ Switched to using this network-based note-taking app from Google Docs and never looked back. Steep initial learning curve, but doable for developers.
	  ◦ Markdown format
	  ◦ Block-level search granularity
	  • Collapsible blocks
	  ◦ Namespaces
	  ◦ Templates
	  ◦ Tags
	  ◦ Simple and advanced queries
	  • E.g. my (work) Reading List
	  • Questions for a specific person
	  ◦ Task management
	  ◦ Cloud syncing
	  ◦ Optional sidebar
	• Ben: Another open source program called Zotero
	  ◦ Firefox extension

	○ Has a Google Doc integration to insert a correct citation from a PDF. ○ Good for research ○ Sort of like a better Bookmark manager
[sticky] Puzzlers	●

Date: May 11, 2023
Attendees: Bianca, Meghan, Reino, Chelsea, Lisa, Ben
Absent: Julian (sick), Ivo, Marnie, Stef

Useful Links for Reference:

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Topic	Notes
[reino]	● Latest - Content Model ● Some inspiration behind the changes ○ https://www.revenuecat.com/blog/engineering/ios-subscription-groups-explained/ ● Related: Rules around usage of content model ● Questions: ○ Can you share more about why we need purchase details to be separate from the purchase and separate from the offering? ■ One of the main reasons is for us to provide a 'default' purchase vs. experimentation in the future ■ In future, purchase is being used so that we can signify the portion of the subscription platform where customers perform a purchase. When we do subscription management (or something else, e.g., donation page), config may be separate from purchase. ■ Since individual plan choices are defined on the plan config, those are the ones you can purchase. If you want to try a different pricing model as an experiment you could set up a new plan [note - this is out of date and wasn't captured particularly well - shouldn't be held as a source of truth] ● Helps with legacy how? ○ Offering links to stripe product id - if you're on a legacy plan, we can map out which capabilities they have. New

	people can't buy that old legacy product unless it's linked to a Purchase ○ Purchase is a configuration of the Live plans only that can be purchased ● Can we leverage the stripe archiving tool for this? ○ We only allow unidirectional plan changes on 2.5, how does one specify a unidirectional change within a subscription group? ■ Instead of letting people define product ordering (monthly -> yearly), we'll have a basic ruleset that governs that type of behavior ■ Swap immediately when they opt to go monthly to yearly ■ End of current interval if yearly to monthly, or downgrade (product tier 2 to product tier 1) ● No downgrades immediately but post-3.0 we would schedule a subscription change using the subscription change feature ● Follow ups for stripe ○ Can we really start using the invoice emails? ■ Does this work for paypal? Yes allegedly as stripe says they have better invoice emails now ■ We would need to update their locale into the stripe customer record to make sure localizations work as expected in stripe emails ●
[reino]	● Setting the Payment Methods in Stripe for the Payment Element ○ Stripe pointed folks to this URL ○ Basically you need to configure the available payment methods both in Manage your payment methods without code and in Configure Invoice template
[clewis]	● Have an ask from QA to separate SubPlat repo out from FxA in a post-3.0 world, figured it's worth raising as a topic at a minimum, but obviously there's still going to be a lot of subplat code in shared codebases for quite some time. Thoughts? ○ We'll do the opposite 👍 ○ Guardian may be coming in...🧌 ○ More shared components as fxa - leaning into the monorepo ● Subplat-devs on github - likely changes, input requested ○ Move everyone in subplat from fxa-devs to subplat-devs ○ Flag subplat-devs for reviewers in `packages/fxa-payments-server` ○ Flag subplat-devs AND fxa-devs for `packages/fxa-auth-server` ○ Anything we're concerned with? Anything missing?

Fraud next steps	● Adding stripe.js to lead pages ○ Quick sec review/ RRA necessary most likely? ● Reino's got a merged pr to add Customer Name and Email Address to the payment method (thanks ben for input and meg for review!) ○ Already flagged for ROs as a ridealong for any upcoming dot releases - fxa expects to have one upcoming for a secbug ● Lisa w/ pair/support from Reino will help SRE to do refund runs ○ stef/marnie are aligned to getting this run today if we could, but nothing super urgent ○ If no sre bandwidth today we'll opt for next week ●
Walk ons!	●
[sticky] Tips & Tricks, something you learned, something you want to show off ● Add tips and tricks that have made your life better recently	●
[sticky] Puzzlers	●

Date: May 4, 2023
Attendees: Bianca, Meghan, Reino, Chelsea, Marnie, Lisa, Ben, Julian
Absent: Ivo (doc appt), Stef (flying)

Useful Links for Reference:

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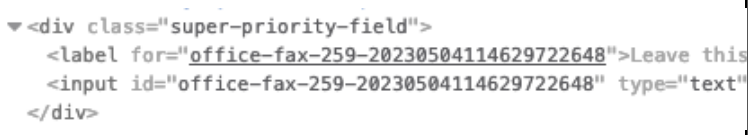
Topic	Notes

[sticky] Tips & Tricks, something you learned, something you want to show off ● Add tips and tricks that have made your life better recently	●
[sticky] Puzzlers	●
[bdanforth] Strange Loop 2023 conference in late September	● There's an interdisciplinary software engineering conference in Saint Louis, MO September 21 - 22 called Strange Loop. ● Barry and I are interested in going. I wanted to see if others might be interested as well? There's a group discount rate for >= 5 people. ● This would use your professional development budget. ● A couple noteworthy talks from last year: ○ (Recommended by Barry) All about Regular Expressions ○ (One I watched) Expert Software Developers' Approach to Error ● One of the keynote speakers this year makes Wizard Zines, if you've ever heard of or used those (highly recommended to me by a former mentor). ● Full list of speakers/workshops TBD, but have a look at the 2022 sessions to get an idea of what to expect. ● If interested, reply to this thread in #fxa-team. If there are enough folks interested in going, we can create a temporary conference channel for coordinating. ○ Edit: There's also talk in that thread about having some kind of team work week instead, though that seems like it'd require one or more interested leads on planning.
Assessing options to protect against scripting attacks	- Ref: - https://stripe.com/docs/disputes/prevention/card-testing - 12k+ attempts on Monday and counting since. We'll assess the relative effort vs. benefit with our colleagues in accounting, but would be good to have an option to improve this to consider programatically. ● What options do we have? ○ Add stripe.js for additional user insight to lead pages (FXA-7198 - will get kicked off this week)

	■ [bianca] The payments frontend requires a few keys - is the script is requiring an api key for this request? [ben] no they don't - they just need to do an include on their html content and load it. Stripe includes a guide to this to do an async load. ■ [bianca] Is this passed along as query params? [ben] just a javascript load ○ Invisible recaptcha or similar on new checkout page (FXA-6744 is a spike to identify which captcha solution would be ideal) ■ [reino] typically like the idea of turning this on and off as needed. Pretty good at picking up when a carding attack starts happening. Is it worth considering having one that we can turn on and off instead of always being on? Maybe could do this manually or with rate limiting? ■ [chelsea] But we have to be watching it to know. ■ [bianca] Stripe's docs on recommendations suggest when they added a CAPTCHA to Stripe Checkout, their carding attacks were reduced by 80%. We could programmatically add a CAPTCHA to checkout if we detect a carding attack based on some heuristics. ■ [added after mtg] **Jess Davis shared that captcha is also used by Pocket on their email/native login for Pocket accounts, to be retired when the full transition to FxA occurs later this year.** ○ Updated/new Stripe Radar rules ■ These work for a while but the carders are continuously improving their scripts and hammer hard when they see their success rates increase ○ Ivo: Kickbox - attempts to ping or hit email address to verify it is real. Claim is they can do real-time email validation without sending an email. ■ Ben: SMTP does have a way to verify it directly, https://mailtrap.io/blog/verify-email-address-without-sending/ ■ [reino] believe you have a bit of a score associated to the email which will tell you that the email wont work, is legitimate or not. Could for us be similar to how radar rules work and we could be more strict at some times than others. ○ [reino] Adopt Stripe Element pre-SP3.0 ■ What would this do to mitigate fraud specifically? ● Stripe elements w/ customer signals "excellent" - link to Stripe Docs ● Does this derisk anything for 3.0? ■ Risks?

	● [reino] the earlier the better here - assuming we do include this in 3.0, it'll have to be the codebase in any case because subscription management will be on the 2.5 codebase ■ pros ● Might have more/better fraud prevention logic? ○ [bianca] Chelsea and Marnie to ask Stripe contacts for more details ○ [bianca] Card Element (what we already use) is a (old) Stripe Element already. ● Allows us to support new payment methods ● Sets cardholdername which can be leveraged in a radar rule or blocklist ■ Cons ● ? something that we'd want to maybe do before 3.0 delays 3.0? ● Unknown if it actually would improve fraud protection. ○ **[added after mtg] Marketing team has used honeypots for at-risk forms:** ■ [per Craig Cook in slack, this form has a hidden field labeled "office fax" with a semi-random ID, and any submission that fills that field gets rejected as automated spam. Humans should never see it. https://www.mozilla.org/en-US/about/legal/defend-mozilla-trademarks/"  ■ ● [bianca] What analyses have we written or can we leverage from prior attacks? Can we identify the most common patterns e.g., IP address uniqueness, fake/unverified email addresses, etc., and their relative volume in each category ○ Benefit for ML-type responses is that our own approach will change to respond to what they're changing ■
Refund script	● Refund script parameters and how to run ○ Ref: Refunds - 01-11-2023

Monitor Integration Update	• Monitor is updating designs (again) to their dashboard, landing page, sign-in page, resolution page after meeting with Sally (Director, Product Management) • 5/22 hand-off date to Monitor engineering team to start integration ○ Meeting scheduled for Monday 5/15 for Monitor/SubPlat engineers (Ivo tentatively on PTO)

[bdanforth] All subscriptions functional tests fail in prod	• Going to raise this in our team weekly meeting next Monday too since Ankita and Rebecca are in those, but I wanted to get our initial thoughts.
	• Subscriptions functional tests were all intended to run in production (based on the code), but have never successfully run in the past 5 months since 123Done was enabled in production for multiple reasons (see FXA-7368). See also fxa-team Slack thread from May 3 with Ankita Shrivastava.
	• Cause for concern? Next steps?
	  ○ We do run these tests on stage.
	  ○ [Reino] will metrics be impacted? [bdanforth] likely depends on the volume, and could likely indicate with an optional property that this is a test event. This would also affect other counts of things like subscription and customer counts. Would likely need to set that up (nonsuccess or success) to reduce the impact here.
	• Should this fact be more visible somehow? How?
	  ○ Should document this risk so that we have this documented/known and visible.
	• Chelsea: Re: the real money needed
	  ○ Reino: Related to our conversation about testing in Production, I randomly came across this notice in Stripe docs.
	  ■ Common mistake
	  ■ Do not use real card details. Testing in live mode using real payment method details is prohibited by the Stripe Services Agreement, which permits business use only. Use your test API keys and the card numbers below.
	  ■ Bianca: I suppose we could change to use the test API keys for Stripe prod in our functional tests – that's probably what we're supposed to do.
	  ○ We've gotten approval for $100-200 on a corporate CC (Stripe only), but that will probably get burned quickly. Only for U.S. too.

Walk ons!	•
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Date: Apr 27, 2023
Attendees: Meghan, Reino, Ivo, Bianca, Julian, Ben, Chelsea

Useful Links for Reference:

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Topic	Notes
[sticky] Tips & Tricks • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•
Accessibility re: 3.0 [Meghan]	• Tech Spec: SubPlat 3.0, section 2.2.3. Accessibility ◦ Meghan walked us through the • Goal: We will request an accessibility review at end of 3.0. We want to ensure that folks within and outside of mozilla with differing abilities can make purchases through our flow. • [Ivo] Question - will the iframed elements be a concern to meet these standards? [Meghan] We have less control over Stripe and Paypal's work but expect largely that these will fit into the criteria. [clewis] there may be some improvements (or not) in our three options for payment elements which are in consideration for 3.0. • [Bianca] can we have some example accessibility to look at re: Reino's example component? AI: Meghan to follow up with clewis re: example component w/ accessibility • [Julian] Can we do a stacking context reset to set everything to 0 at teh parent of the paypal iframe? Meghan Sardesai to review.
Playwright and Metrics (Lisa & Bianca) learnings	• The presence of flow metrics in the payments front-end app is what determines whether or not we record any user events.

on FXA-7165 [Lisa & Bianca]	○ As noted in the Ecosystem Platform docs, content server redirects users to Payments server along with these metrics-related query params. Therefore, users should not directly access the pages on Payments. ● RPs can optionally include flow metrics in their query params (that are now also removed if a user opts out). ○ This is the most common pattern, as it allows RPs to associate user events at the "top of the funnel", which is upstream of SubPlat. ○ The flow metrics are generated by hitting a metrics endpoint on the content server. ○ If flow metrics aren't included by the RP, the content server will then add them conditionally based on the user's metrics opt-out flag. ● Functional tests ○ We run all functional tests on all PRs (`test_pull_request` workflow) and for stage and prod smoke tests (`stage_smoke_tests` and `production_smoke_tests` workflows). ○ 123Done, our fake OAuth RP/Subscription product website used in our functional tests, has a separate deployment process from the rest of FxA. It's a Heroku app (see Slack conversation). ■ Bdanforth: I just updated the README so any developer can deploy changes in the future to 123Done: https://stage-123done.herokuapp.com/ . ○ Playwright helpers: ■ `waitForURL` is preferred over `waitForNavigation` per Playwright docs. ● `waitForURL`'s `waitUntil` option: networkidle is discouraged per Playwright Next docs and was causing test timeouts. ● Resources ○ Playwright Next version (unreleased documentation) included notes/comments that are not found in its latest version (stable) doc ■ E.g. The note about the discouraged use of 'networkidle' in waitForURL was not included in the latest version; however, it led to "Navigation failed because page was closed!" error; use "load" ○ Ecosystem Platform ■ To run tests in debug mode to step through each test stage: `yarn test workspace functional-tests test --debug --grep=$test_name` ■ To run a specific test : `yarn test workspace functional-tests test --grep=$test_name` ○ Ankita's Demo | Notes

Walk ons!	• BOOK YOUR ALL HANDS FLIGHTS (IF YOU ARE FLYING) • If you are hiking, consider leaving soon.
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Date: Apr 20, 2023
Attendees: Chelsea, Lisa, Bianca, Julian, Ben, Meghan

Useful Links for Reference:

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Topic	Notes

[sticky] Tips & Tricks
• Add tips and tricks that have made your life better recently
	• [bdanforth] Sentry.io feature to delete and discard Sentry errors we don't care about and don't plan to fix.
	  ◦ Unintentionally duplicating sentry errors in the content server
	  ◦ If you're in a situation where you're getting errors that you don't care about and it's not worth the time to go in to change the code to keep the errors from *being* reported, you can delete/discard the error from sentry. Doing this will reduce costs (not sending unnecessary/duplicate errors) and ensure we don't hit the limit and miss real errors
	  ◦ Most recently used in FXA-7275.
	  ◦ Good tool to keep in our triage toolbox? Worth sharing with FxA folks?
	  ▪ Note: it's not irreversible
	  ◦ Good use cases?
	  ▪ Frontend errors caused by Browser extensions
	  ◦ Triage Owners:

	■ If you see an error that feels like it's not helpful and also not worth fixing ●
[sticky] Puzzlers	●
[clewis] related triage topic...	● We're going to explicitly plan some bandwidth for our Triage Owners starting next sprint. This would be at a reduced bandwidth from their standard sprint, but gives folks something to push forward on in slower times during triage ○ These could be: bugs, tasks, spikes - whatever applies ○ These tickets should be planned in consideration of the team's sprint goals (e.g., 60% metrics focus - triage owner's work could be metrics work or something within that 40% bucket as priorities require) ● If an issue comes up that requires immediate attention (e.g., high priority bug) ○ Ideally the Triage Owner can take these if their bandwidth and skillset allows (and should be encouraged to push themselves to learn new areas of the codebase if the opportunity arises) ○ If they can pick up the work but need to drop their current sprint commitment, discuss with marnie/chelsea to confirm adjustments ○ If issue is highly urgent or not a good fit with TO, raise to marnie/chelsea for support as we may need to pull in someone else on the team as assignee, to pair with, or as reviewer ○ We are acknowledging the potential for engineers who are not TO to be looped in to priority work, which may result in the need to drop planned sprintwork - as chelsea/marnie will be aware they can advise on what adjustments need to be made for the success of the sprint ● Proposing some Timeboxing hygiene ○ On a non-urgent #subscription-platform question, try not to spend more than 20 minutes on review/investigation. ■ What if the question requires more investigation? Flag for Stef/Marnie/Chelsea/Ben as appropriate? Set up a meeting? ○ On a sentry error that needs investigation ■ Consider a timebox of about an hour. If you're unsure at that point, file a bug, reach out to the team channel for support
Where should our automated tests be?	● Confirmed: new tests should use Playwright: https://github.com/mozilla/fxa/blob/main/docs/adr/0028-evaluate-playwright.md#decision-outcome

Walk ons!	•
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Date: Apr 13, 2023
Attendees: bianca, meg, marnie, julian, lisa, ivo, reino, chelsea, ankita, stef, ben

Useful Links for Reference:

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Topic	Notes
Review SubPlat 3.0 Tech Spec [reino]	• Technical Specification - Subscription Platform 3.0 • Continued... • SubPlat 3.0 - Tech Spec review
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[sticky] Tips & Tricks • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•
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Date: Apr 6, 2023
Attendees: bianca, meg, marnie, julian, lisa, ivo, reino, chelsea, ankita, stef, ben

Useful Links for Reference:

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Topic	Notes
Review SubPlat 3.0 Tech Spec [reino]	• Technical Specification - Subscription Platform 3.0
	•
	•
[sticky] Tips & Tricks • Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•
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Date: Mar 30, 2023
Attendees:

Useful Links for Reference:

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Topic	Notes
[sticky] Tips & Tricks - Add tips and tricks that have made your life better recently	•

How much work would it be to add GA to the payments server? [bdanforth]	• Reference: FXA-6300
	  ◦ Doc from P&S team
	• TL;DR: They want to add GA to the success screen in checkout. Most likely this would be work in addition to migrating to Glean.
	• How much of a lift is this?
	  ◦ Generally:
	  ▪ Julian: It's kind of a pain depending on how we insert their scripts. If we wanted to track one page (e.g. the success page) and that page view would show up in the GA dashboard for S&P team, we could do it if we wanted to put that script in just for that specific page. Possible, but annoying.
	  ▪ Julian: If we want to track any custom events like this morning, that would be really painful. We could just load up the script only when we render that specific component.
	  • Reino: What kind of event do they want us to record? Standard GA event or custom event?
	  ◦ Bianca: Need to ask them. Probably a standard event.
	  ▪ Reino: My experience with GA is that it's super simple getting it set up.
	  ◦ Currently this isn't a separate page from our other screens. Is this problematic?
	  ▪ Chelsea: Since we're a SPA, when the success component is loaded, they're not seeing it. If we don't have an explicit success page, how does that play?
	  • Ben: GA has some feature to track history state changes, so if we update browser history, this could be tracked.
	  ◦ Julian: Are we tracking every single page or are we only interested in one event?
	  ▪ Bianca: AFAIK just the one event.

	○ Does GA support custom events on the server (e.g. subscription_ended from the metrics Tech Spec)? Does anyone have experience with this? ■ Reino: My experience is front-end only. ○ What else should we be asking? ■ Reino: See if they have someone else that they've asked to add analytics to their page or if they have an example of what they're asking for. ● Chelsea: Note: Marketing pages/Bedrock are set up already in GA. We have a very different system. ● Chelsea: Marnie was working with a contractor on Rally who did their GA implementation. I think he's still working on Mozilla projects. ■ Ben: S&P wants this, but do the other teams use GA? If we just start sending success events when anyone hits a success page that'd give them the wrong data. ○ Example link of implementing with React ○ Clewis pinged questions/suggestions from above to Stef for next steps!
Stripe new email features	● New features! Potentially something we could utilize ● Can you customize per customer per locale ● Julian to follow up with Stripe counterparts on a few questions, then next steps: ○ Review invoice email that is sent out - review it with legal, accounting, etc., etc., for sign offs, then potentially file a ticket to replace our own invoice emails with Stripes.
Bulletproof React [reino]	● https://github.com/alan2207/bulletproof-react ● https://www.patterns.dev/
[sticky] Puzzlers	●
	●
	●
	●

Date: Mar 23, 2023

Attendees: Chelsea, Ben, Ivo, Julian, Reino, Bianca, Lisa

Useful Links for Reference:

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Topic	Notes

[sticky] Tips & Tricks
- Add tips and tricks that have made your life better recently
	• [reino] Stripe CLI resend events
	  ◦ Difficulties resimulating event manually can be made easier with stripe cli's resending of events
	  ◦ Provide the event id which tells stripe to resend that same event. If you're testing logic in webhook handlers you can test with that same event over and over rather than recreating customers to simulate the same thing happening.
	  ◦ [ivo] If you don't have a specific event, you can actually trigger an event (invoice created or whatever) without having a specific event id - might require a bit more effort and you'll need to add dummy data but definitely helpful to leverage
	• [bianca] bigquery stuffs - timestamp difference between bq (utc) and stripe event timelines which uses pst and in seconds
	  ◦ In some cases you may be looking for a logline or event in our app logs on a particular day but you may need to add a tolerance of +- a day due to the time diff of those two systems
	  ◦

[ivo]	• Tickets/Work Atomization
	  ◦ Increases ceremony around PRs
	• Points equalling time and complexity
	  ◦ Distorts signal to noise ratio
	• Point inflation

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[sticky] Puzzlers	•
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	•

Date: Mar 16, 2023

Attendees:

Useful Links for Reference:

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Topic	Notes
[sticky] Tips & Tricks - Add tips and tricks that have made your life better recently	•
[sticky] Puzzlers	•
[reino] Radar rules	•
[reino] Remix	• https://remix.run/ • Does anyone have experience with Remix? • Barry was asking on the ADR if we had or would consider it? Lots of unrecorded convo here but in lieu of that... Outcome: Sticking with Next.js
Stripe news coming forward	• Stripe roadmap updates (ben shared in team channel)
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Date: Mar 9, 2023

Attendees:

Useful Links for Reference:

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Topic	Notes

[sticky] Tips & Tricks - Add tips and tricks that have made your life better recently	•

[sticky] Puzzlers	• [bdanforth] Why do we have so many more Stripe customers than subscriptions in stage and production Firestore? And accounting for other discrepancies.
	  ○ References:
	  ■ FXA-6873
	  ■ FXA-6873: Stripe Customers and Subscriptions counts by environment and data source
	  ○ Possible explanations:
	  ■ Most of the difference in production is accounted for:
	  • Large amount of fraudulent accounts/customers created without subscriptions created that were never cleaned up from the incident over the 2022 winter holidays
	  ■ Other hypotheses:
	  • Differences in what's included in the count: deleted versus non deleted customers, all statuses of subscriptions versus a subset of statuses.
	  ■ Ben: Stripe doesn't show deleted customers in their dashboards unless you direct link to a customer ID. They don't show up in searches etc. They delete most of the customer data as well (e.g. subscriptions). Because they wipe out all the information, we didn't want to lose it, so we did not delete it from Firestore. It looks like Fivetran might do the same thing.
	  • When we see a customer is deleted, I think we just mark the customer as deleted, but we don't remove the customer.
	  ■ Ben: I would expect the Stripe dashboard to have more subscriptions, because we may not have fully backfilled Stripe subscriptions in Firestore. We may have backfilled all active subscriptions but not closed/canceled subscriptions.
	  • Looks like just US/CA customers' subscriptions: https://mozilla-hub.atlassian.net/browse/FXA-4276 .

	● Every active subscription should definitely be in Firestore now. ○ Time permitting, discuss possible reasons for discrepancies between other data sources/environments. ■ E.g. Why are there more subscriptions than customers in stage Stripe dashboard only? Something about testing multiple subscriptions/bundles at a higher rate than we see in production? ■ E.g. Why is Stripe Firestore in stage the reverse (more customers than subscriptions) compared to the Stripe dashboard? What accounts for the counts difference between these two?
[bbangert] hCMS selection	● We're going with Contentful instead of Strapi. ● We had previously chosen Strapi. ● One thing that hurt Contentful originally was the cost. ○ Strapi Enterprise had many features; it was $12-18k. ○ We can add another space of Contentful for $4k. ● One cited drawback for Contentful was localization ○ Originally you get 8, and that's what we based our evaluation on, but we will start out with 40 actually with our current Mozilla contract. ○ Marketing has an integration with a paid translation service. When they modify content, their integration with Contentful notifies this service and the strings get translated. ○ E.g. you draft, mark it as ready to publish, only publish when translations are in. ○ Bianca: We support more languages on our websites than in product/plan config. (An issue independent of hCMS choice) ■ Ben: Should all our user-facing strings live in our hCMS? (Something Ivo suggested in the past) ■ Our sites are translated into something like 140 languages. ■ It's a little weird to ask volunteer translators to translate paid product content. ● A few other things: ○ Sharing content between spaces used by other teams ■ Yet another team than Marketing: Relay and Hubs using Contentful. ■ You can reuse content between spaces ○ Procurement ■ Needs a CASA request, legal and finance review. It can take up to 2-3 months depending on the request, the other company's policies... This took a while when we first started SubPlat e.g. for Stripe, Zendesk, etc.

	■ Since Mozilla already uses this, we just need to approve the extra spend. This means we can get started with SubPlat 3.0 faster. ○ We wanted to use a cloud product and particular features immediately ■ Strapi Cloud is launched as beta without a number of enterprise features we weren't interested in (e.g. approval features) which wouldn't be ready until the end of the year. ■ All of these features are readily available now in Contentful. ○ Contentful already hooked into our SSO ● If you have any questions for Contentful people, let me know ● Julian: The real differentiating factor: We already have a subscription for it and they already have Cloud support. Pretty close on parity, and there are certain ones where one does slightly better than the other. I don't think we'll have an issue with Contentful. ● Questions ○ Ivo: Using Strapi to define types and relationships – can we do that in Contentful? ■ Ben: Largely, yes. Can define custom validations, mins/maxs, relationships between models. ■ They do extensions a little differently and I actually prefer it: ● When you want to extend Strapi types, you can make your own app and it integrates via OAuth. Because Strapi is tied in so closely with internals of the system, you're now essentially writing Strapi code and are an hCMS developer. Your extensions might be tied deeply to a particular version of the system/internals of the system. ● Contentful: your app integrates externally with APIs. ○ Ivo: Strapi had GraphQL endpoint(s). Does Contentful? ■ Yes.
[Ivo] GoT	● Bran becomes king of Westeros ● Bianca notes this is old news.
	●
	●
	●

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Date: Mar 2, 2023

Attendees: Lisa, Chelsea, Bianca, Ivo, Reino, Ben, Meghan, Julian

Useful Links for Reference:

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Topic	Notes
[sticky] Tips & Tricks - Add tips and tricks that have made your life better recently	•

[sticky] Puzzlers	• [bdanforth] working on a ticket that's on the boundary of SRE/FxA/SubPlat regarding metrics. I've been looking into these data sources to understand and validate their reliability.
	  ○ Our firestore collections for apple iap subscribers, google iap subscribers, and our stripe customers (inclusive of stripe & paypal customers). Filed a ticket to add syncs here. Noticed there were many more customers than subscriptions in both stage and production. Bianca has some explanation in production (e.g., large amount of fraudulent accounts created without subscriptions created)
	  ■ Deleted and nondeleted customers, all statuses of subscriptions.
	  ○ Introducing this for next week

Spike results from FXA-6755	• Ivo's running us through his findings and observations • Attempted to use stripe clocks to recreate a similar situation - wanted to see if the next billing cycle attempted to use the card which was or was not expired. It was able to make charges to the despite it being expired. • Decision: We'll cancel the follow up ticket until/unless we identify a problem this issue is creating.
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Date: Feb 23, 2023

Attendees: Lisa, Chelsea, Ivo, Julian, Reino, Bianca, Ben

Useful Links for Reference:

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Topic	Notes

[sticky] Tips & Tricks
- Add tips and tricks that have made your life better recently
	• Dev environment [reino]
	  ○ Remote development with SSH
	  ○ Tailscale
	  ○ [julian] similar option to codespaces but self-hosted available https://github.com/coder/coder
	  ○ This avoids issues with battery life when you're out and about, and leverages your internet at home
	  ○ Never have to reboot it, can jump between machines and connect right back where you were

[sticky] Puzzlers	• Proposing a sticky/weekly Puzzlers section, could add similar items to what typically has to wait until our Retros if we'd like!
	  ○ Ivo raised that we may want to look into how resource intensive our stack is
	  ○

Post SubPlat 3.0: Glean for product analytics? [bdanforth]	• References:
	  ○ Meeting recording from Maxx Crawford
	  ■ https://mozilla.zoom.us/rec/share/pE449Nz59F1lF9n6PiWR-hMAhpMISLcteCkOElVaa33oSxQ7Vg_zctDDMyw5j6pw.EYgxgeSJNhUrjYyF
	  ■ Passcode: U4tPu?p^
	  ○ Glean: bedrock steps from Alex Gibson
	• Context
	  ○ Bedrock (www.mozilla.org) recently migrated their product metrics tooling from Google Analytics (GA) to Glean. Alex

	Gibson shared some insights with some engineers on other website teams (P & S, AMO, SubPlat). ○ FxA has a completely custom metrics pipeline to date. ● Upsides ○ Glean has a website and Node SDK and they support outputting metrics config to TS. ○ Autodocumentation ○ No DNT implementation necessary since we are first party (just need an opt-out with FxA has already implemented). ○ Nimbus website REST API experimentation support in progress ● Downsides ○ There's more process to integrate with Glean relative to third party solutions (data review for example). ○ Websites with lots of pages have seen some issues with pings not getting sent (i.e. data loss). Not an issue for SPAs or server-side. ○ NodeJS support is newer and not well-trodden. No persistent storage yet. ● Observed difference relative to GA in metrics ○ More page visits on P&S pages, like the VPN landing page, since those users tend to have tracking blockers for GA. ○ Less page visits on Firefox download pages, since those users tend to have older browsers where Glean doesn't work (as well?). ● To continue following the metrics tooling journeys of other Mozilla websites team, join #web-analytics-migrations. ● Aside ○ I learned from Maxx Crawford that Relay is using NextJS + React, so they may be a good team to talk to as we're planning SubPlat 3.0. ● Questions: ○ Ivo: Why don't we move to Glean as part of SubPlat 3.0? ■ Ben: Might be some opportunities where we refactor the code to put interfaces in front so we don't have to rewrite a bunch of our application code to swap in the other system later. ■ Bianca: We wanted some baseline metrics in place prior to SubPlat 3.0. Changing the tooling would put that goal at risk. ■ Bianca: Also we probably want the same pipeline as FxA to join with their events in the future.
Train-252 [ivo]	● Do not merge conflicts on train branches through GItHub UI ● Should we/could we disable that on GitHub
	●

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Date: February 16, 2023

Attendees: Lisa, Chelsea, Ivo, Julian, Reino, Bianca, Ben

Useful Links for Reference:

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Topic	Notes

Slack channel changes	• Quick temp check on Marnie's audit/recommendations for slack channels
	• Recommendations
	  ○ No #subplat-social , but reboot #fxa-donut as #fxa-subplat-social, add donut in, and keep this PRIVATE this time so that we have better safety & engagement
	  ○ No #subplat-eng - we'd like to use subplat-team for this so that all the subplat cooks are in the channel in case we end up flirting with product/program/qa(?) things in the convo rather than having segmented convos everywhere
	  ○ No #subplat-and-legal - we have biweeklies with legal as leads and leverage emails & docs to communicate/document those convos. Can always revisit later if we increase needs here.
	  ○ Geekbot will stay in #fxa-team right now unless/until we poke at this a bit more. Right now, it's nice that we can see what's going on in FxA-land or vice versa that might impact us, or that we can share CI flakiness etc.

Paypal sandbox flakiness	• Paypal sandbox issue : FXA-6788 (Discussing in Sprint Board Review section)
	• 3 Paypal related tests for subplat has been disabled for now
	• Ankita will work on a fix and enable those tests again
	• Tribal knowledge/word of mouth that cannot be shared publicly:
	  ○ Massive java stacks built by paypal internally
	  ○ As you use newer apis, they have bugs where they don't use their own internal apis quite correctly
	• Flakiness is shenanigans but has nothing to do with the particular api we use. It's just a mess, it is what it is.
	  ○ May want to look at the braintree reference api and system - may actually be materially better

	○ We were against doing this in the beginning because we were concerned about just one more layer of potential problems ● Sandbox has and will continue to be flaky. ○ Can we fail more gracefully on these tests? ○ Would be great if it failed with a sandbox-specific error rather than aborting early if it's a result of the sandbox being down so that we can continue running the tests ■ If a status api endpoint exists, we poll and re-run these tests when it's up again ● In both cases, failures occurred at the paypal popup ○ Processing payment through paypal ○ Logging into paypal ● Seems like this is entirely the paypal functionality, so could we/should we mock these so that we can test and ensure *our* functions are working rather than theirs? ○ Maybe so, we may also use paypal sandbox later ○ Maybe not, because there's a callback which passes some information in as a functional test, and if something in this very old paypal crustiness changes we may be less likely to capture it if we mocked. ● Does Playwright have some functionality to only send notification if test has failed [last x times], some sort of circle ci ignore opportunities like what sentry has ● https://playwright.dev/docs/mock can mock API replies ● Should we file? Should we make suggestions to Ankita? ○ [bdanforth] we can make suggestions to ankita (those are above) which likely require some investigation, may be a joint task, SubPlat or Automation QA to explore these more fully to see what's possible with the ideal goal of running those tests as long as detecting the sandbox is up ● Clewis - move this to doc to share with ankita ○ DONE: Improving Resilience in Paypal Automation Tests
Slidedeck for 3.0	● Slide deck will replace the full proposal doc ○ Sub Plat 3.0
Planning to allow archived plans again	● https://mozilla-hub.atlassian.net/browse/FXA-6696?focusedCommentId=649471 ○ Quick review of the current plan ○ Can we/should we have a quick PRD or tech doc on this? ○ Draft PRD
[only if there's time] Dev environment	● *Remote development with SSH* ● *Tailscale*

[maybe?] SubPlat aliases	• *Subplat-devs on github - should we use this instead of fxa-devs?*
[maybe?] Triage duties	• *Dependabot - how are we handling these today?* ○ *https://mozilla.github.io/ecosystem-platform/reference/team-processes/triage-process#failed-dependabot-prs* • *Stripe Radar rules - in reviewing these, what do we need to know - what should trigger a deeper dive?*

Date: February 8, 2023

Attendees: Lisa, Meg, Ivo, Julian, Ben, Chelsea, Bianca, Reino

Useful Links for Reference:

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Topic	Notes
account creation on subplat checkout	FXA-6705 - Change in Ownership - NewUserEmailForm - Subscription Checkout page > Wil Clouser February 6, 2023 at 4:51 PM Howdy. The FxA team discussed this today. The current components between our teams are not easily exchangable. The FxA team doesn't have much appetite for maintaining alternative UIs since that can be hard to scale and we've run into those UIs getting out of sync. One option we discussed is to maintain a separate react captcha component that could be used by both teams. One drawback of this is we'd need to use a locally-hosted captcha since we don't host 3rd party JS on the accounts.f.c domain. Since the payments server is on its own domain with 3rd party JS you could run state-of-the-art captchas (the kind most users don't even notice) which would be a better experience for customers. cc @Chelsea Lewis • Potentially handing off two email input fields to fxa - Reino and Wil connected briefly, Ben is sharing context from the fxa meeting ○ Fxa team pulled up fields in question, they do not do the same thing in fxa today. Fxa's captcha would need to work very differently than our own. As this is not a component

	they can use, they don't see the value in transferring ownership to fxa ○ Subplat can leverage a better captcha due to our less stringent needs (re: no crypo in payments) ● [ivo] During incident, a solution which was suggested to validate these emails for deliverability ○ https://kickbox.com/email-testing/ ○ If someone were to use our page for nefarious purposes ○ [ben] Can and do share our email checks - use the same endpoint today and can beef this up. We could make this shared endpoint better (or FxA can) ● [reino] in late december within the attack, wil asked if there were any dials/switches we could leverage in these scenarios ○ There are costs to the email verification systems. Would be cool if we could have the ability to flip the captcha on if there was a high risk (automatically or manually) as an approach to lower the cost when not required ● [bianca] we can use invisible captchas as well ● [ivo] is this happening more over time? ○ [bianca] only been possible since mid-2021with the introduction of Conversion Funnel Optimization (i.e. the new user checkout flow). ○ [ivo] we did ● [reino] https://stripe.com/docs/disputes/prevention/card-testing#prevent-card-testing ○ If there's captcha on Stripe's side, it still doesn't block the mass creation of stub accout ■ [ivo] is it worthwhile leveraging the ● [ben] in subplat 3 we may change things around so that we don't necessarily create an fxa unless/until we know the payment is going to go through ○ Additional hooks available on a beta basis - we could use one of those to hook into this ● [reino] if we do consider adding a captcha, one of the obvious concerns mentioned is a decrease in customer usage due to having a new block in place - needs to be run by product to understand if this is a viable option ○ Agreed - at this point in time, decreasing potentially viable customers doesn't seem like it is warranted. Radar rules appear to be performing to their expected routes, and there are possibly less painful ways of handling this.
Strapi hCMS demo [Julian]	● QuickStart: ● https://docs.strapi.io/developer-docs/latest/getting-started/quick-start.html

	• GraphQL:
	• https://docs.strapi.io/developer-docs/latest/development/plugins/graphql.html
	• Plugins:
	• https://strapi.io/plugins?page=5
	• Content management
	  ◦ [ben] we could let PM's add their icons, images, etc. and we'd use an API to update their CDN assets rather than making their devs do PR's to our repo to update media assets.
	  ◦ [julian] we could also potentially do this with our legal docs
	  ▪ [clewis] I like what the legal teams and reino have set up for our legal docs right now, but we'd definitely need a way to pull those from our CDN into the new hCMS. They're currently just links to our cdn added to stripe metadata.
	  ▪ Basically the flow for folks interested: legal updates/writes legal docs, l10n translates, all of these are uploaded to the legal repo and automatically up to bedrock across mozilla. We then pull those automatically into fxa repo's CDN as PDFs, and as long as URL hasnt' changed (or isn't new) this entire update process is invisible to the product teams and automated.
	• [bianca] I read that there is field-level permissions in Strapi which is an improvement on teh permissions model of the dashboard.
	  ◦ Community edition doesn't allow field-level permissioning -need enterprise model
	• [ivo]
	  ◦ Should all of our strings be done within Strapi?
	  ▪ It's doable, it'd be a good conversation to have - pros/cons around centralizing this
	  ▪ [julian] We'd become dependent upon strapi but are already pretty dependent upon it so maybe not an issue. Can very easily manipulate the content within strapi via the graphql api - we'd probably want to be able to write a script to manipulate community provided l10n into strapi so that we don't have to maintain that specifically. May make sense to host the entirety of our copy within strapi.
	  ▪ [bianca] right now we concatenate all new strings into a new file every week which is how l10n/fluent gets the content.
	  ▪ [ben] right now PMs do their own translations because they have so many one-offs and because they want to ensure
	  • Need to confirm with supported product/rp PMs

	• [clewis] what about experimentation? ◦ Could potentially leverage but it's not the job of strapi. Should probably invest in something for feature flag management as a team.

Archived plans on Subscription Management [rmuhl]	• https://mozilla-hub.atlassian.net/browse/FXA-6775
	• In subscription management, we pull the
	  ◦ First line (standard amount + tax amount + cadence)
	  ◦ second line (next bill of x-amount) , may have a coupon applied
	• [ivo] The requirements for subscription management page feels like there's too much information being displayed
	  ◦ Can we link to see invoice details to see more details rather than pulling so much info in here?
	  ◦ Maybe, yes? Current was approved by legal content product but we can't feel confident in the amount

	•
[maybe?] Triage duties	• Dependabot - how are we handling these today? ◦ https://mozilla.github.io/ecosystem-platform/reference/team-processes/triage-process#failed-dependabot-prs • Stripe Radar rules - in reviewing these, what do we need to know - what should trigger a deeper dive?

Template

[date] | SubPlat Standup / Eng Weekly

Attendees: Chelsea Lewis Benjamin Bangert Julian Poyourow Reino Muhl Meghan Sardesai Lisa Chan Ankita Shrivastava Katrina Anderson Marco Mucci

Standup Parking Lot items *If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup.*
If there are blockers which need support, or parking lot items, which come from standup, they will be listed here to come back to at the conclusion of standup. •

SubPlat Eng Weekly [Recording]

This is a self-organized portion of the meeting. If you have a topic, question, demo, puzzler - whatever it may be - add it to the list of topics below so that we can discuss.

Topics	Notes
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