

Multiple Classrooms (Web)

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Quick links: [Section 1: WHY](#); [Section 2: WHAT](#)

Mock links (if available/applicable):  PM low-fi mocks - Oppia Multiple Classrooms

Technical Design Doc (if applicable):[add link]....

PRD Summary

Oppia currently has a [classroom page for Math lessons](#), which is featured prominently and accessible via multiple pages:

1. Home Page > Browse our lessons
2. Navigation Bar > Learn
3. [Community Library](#)
4. [Learner Dashboard](#) (log-in required)

As more Oppia-curated content is developed (i.e. more classrooms created), there is a need to ensure that learners can easily access new content and classrooms as well. This PRD proposes the changes required on the site, for users to view and access multiple classrooms through the same access points (Navigation Bar, Community Library, and Learner Dashboard).

Note: Proposed solution should take into account web onboarding/lesson redesign ([see Github issue](#))

Approval Summary

Section	Reviewer ¹	Role	Review Status	Last updated
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¹ TL/PM leads may, at their discretion, choose to replace their names here with their delegate(s)' name(s) instead.

WHY	Sean Lip	PM Lead	Go (fully approved) ▾	23 Jun 2023
WHAT	Sean Lip	PM Lead + Web Tech Lead	Approved (including designs) ▾	10 Dec 2023

Section 1: WHY

The aim of the WHY section is to demonstrate a good understanding of the problem we're trying to solve, why it's worth solving, and what's at stake if we don't solve it.

Problem Description

Target Audience	- Primary audience: Learners - Secondary audience: Teachers and Parents who may be utilizing the content on the site to educate the learners
Core User Need	- As a learner, I want to be able to find official Oppia-curated content easily - As a learner, I want to be able to select from, and learn about different topics (eg. Math, Science, English, etc)
Existing Status Quo	At the moment, there is only one Oppia curated classroom on the site (for Math), so learners can only access other lessons which are community-created through the Community Library
What goals do we want the solution to achieve?	Ability to access other Oppia curated classrooms (measured by clicks/page views on the various classrooms)

Summary of the proposed solution

The proposal is to have all Oppia classrooms linked and displayed to users on these pages for easy access and navigation:

- Home Page > Browse our lessons
- Navigation Bar > Learn
- Learner Dashboard (under “Learn Something New” as well as “Continue where you left off”)
- Community Library
- Each classroom page

The classrooms that will be made available on Oppia are: Math (existing), Science (coming soon) and Financial Literacy (coming soon). Where content is not yet available/launched, a “classroom under construction” banner will be shown.

Note: The display of the classroom links should differ from page to page, depending on the style of the page.

Pros/Cons of the solution

Pros:

- Prominent display of classrooms – Learners are made aware of, and able to access new curated topics
- Multiple access points to the classrooms
- Ability to track progress across multiple topics/classrooms

Cons:

- Not all lesson content will be ready upon the launch of multiple classrooms
 - → Mitigation: “classroom under construction” banner to be shown. Have at least the science/FinLit classroom ready before the launch of multiple classrooms.
- Learners may face some confusion when tracking progress on the Learner Dashboard if the classrooms/topics are not clearly displayed to them
 - → Mitigation: have a clear segregation of topics on the dashboard to minimize confusion

[Web projects only] Impact on the Android app

Summary	• This project changes user-generated content in the Android app.
Details	• New classroom pages and lessons need to be displayed on the Android app • Need to provide users with navigation capabilities to select and move to different classrooms

Assumptions made

- Similar to Math lessons, progress will be tracked for learners accessing other topics/classrooms as well. The progress across classrooms will need to be shown on the Learner Dashboard as well.
- Either the Science or Financial Literacy lessons will be ready before the launch of multiple classrooms

Non-Goals

- This PRD will not address the timelines for which each classroom will be made available on the site.
 - This PRD only proposes a set of classrooms to be displayed to users on day 1 of the launch. Additional classrooms may be added to the site at a later point in time following the same style / method.
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Section 2: WHAT

Implementation team constraints

- This feature should be launched just before, or together with a new non-math classroom (either Science or Financial Literacy)

Key User Stories, Goals, and Tasks

Notes:

- More details can be found in [PM low-fi mocks - Oppia Multiple Classrooms](#)
- The table below only covers Math and Science classrooms. The Financial Literacy classroom should be added in a similar way.

#	Title	User Story Description (role, goal, benefit-to-user) "As a ..., I need ..., so that"	Story success criterion	Priority ²	List of tasks needed to achieve the goal (this is the "User Journey")	Links to mocks / prototypes, and/or sections spec'ing ³ out the task's user flows and product requirements. ⁴ <u>Note:</u> Mocks for Android projects should also include a "dark mode" version.	Task success criterion
1	Access classrooms from the Splash page (oppia.org)	As a learner, I want to browse lessons from the splash page, so that I can start my learning journey immediately.	Learners are able to navigate from the Home page to the Oppia classrooms page to browse lessons.	Must have	Upon reaching the home page of Oppia.org, I immediately see the option to browse Oppia lessons ("Browse our lessons")	No change to UI - this exists today.	N/A
					After clicking on "Browse our lessons", I am brought to the Classrooms page, which shows me all of the classrooms on Oppia	New page: oppia.org/learn	Learners are directed to Classrooms page
2	Access classrooms from	As a learner, I need to see the available learning	Learners will see all available learning options	Must have	When clicking on "learn" on the navigation bar, a drop-down box appears	Link to PM mock: PM low-fi mocks - Oppia ...	Learners are able to see all learning options

² Use the **MoSCow** system ("Must have", "Should have", "Could have"). You can read more [here](#).

³ Specs are important if the user journey has multiple cases (e.g. error types for wrong answers; different choices a user can make; etc.) and these need detailed enumeration.

⁴ If mocks/prototypes have been validated by e.g. user studies, please provide details. This can help increase confidence in the solution, though it's typically only needed in cases when we're unsure about key assumptions, or there are risks that the solution won't resonate well with users.

	navigation bar > learn	options on Oppia from the navigation bar, so that I can quickly access learning content from any page.	from the navigation bar and access them quickly.		showing me the options to learn: Oppia Classrooms (Math and Science), Community Library, and to try the Android app		
					I can see a brief description of each learning option to understand more.	Same as above	Learners get a brief intro about each option.
					There are links to the Math classroom and some key science lessons, which will bring me to the respective pages when clicked.	Same as above	Learners can navigate to Math classroom or featured lessons
					There are links to the Science classroom and some key science lessons, which will bring me to the respective pages when clicked.	Same as above	Learners can navigate to Science classroom or featured lessons
					There is a "Community Library" link which will bring me to the Community Library page when clicked.	Same as above	Learners can navigate to the Community Library
					There is a "Try our Android app" link which will bring me to the Android app intro page when clicked.	Same as above	Learners can navigate to the Android app intro page
3	Access from Community Library (oppia.org/community-library)	As a learner, I need to be presented with various learning options in the Community Library, so that I	In addition to the existing Community lessons, learners are able to see and access Oppia	Should have	When I access the Community Library page, I see a section introducing the Oppia classroom.	 PM low-fi mocks - Oppia ...	Learners see Oppia classrooms section on the page.
					I can get a brief introduction of each Oppia-curated	Same as above	

		can pick the most suitable lesson to start learning.	classrooms on the Community Library page too.		subject (classroom) in the Oppia classrooms section.		
4	Access from Learner Dashboard (oppia.org/learner-dashboard)	As a learner, I need to see the progress of my lessons on my dashboard, so that I can easily track and return to incomplete lessons.	Learners should be able to see the progress of incomplete lessons in the "Continue where you left off" section of the dashboard	Must have	Upon logging in, I am directed to the learner dashboard.	N/A - This is an existing flow	Learners are directed to the learner dashboard once they log-in.
					[Learner Dashboard - Continue where you left off] On the learner dashboard, I can see a section containing the lessons I've started on but not yet completed, along with the progress I have made on each of them. The lessons are grouped based on topics: Math, Science, Community Library.	 PM low-fi mocks - Oppia ...	Learners can see all incomplete lessons and progress.
					[Learner Dashboard - Learn something new] On the learner dashboard, I can see a section containing lessons that I have not started learning yet. There should be Math and Science topics listed in this section.	Same as above	Learners can see all lessons that they have not yet started on.
					[Learner Dashboard - Progress page] On the revamped "Progress" page found in the Learner Dashboard, I can track the progress of incomplete	Same as above	Learners can see all incomplete lessons grouped according to topic, and the progress of each.

					lessons in the sections for Math Classroom, Science Classroom, and Community Library.		
					[All] On each incomplete lesson card, there should be a topic label, allowing me to clearly see which topic this lesson falls under.	Same as above	Learners are able to identify the related topic quickly.
5	Classrooms page (new URL: oppia.org/learn)	As a learner, I need to view all available Oppia classrooms in one page, so that I can choose a topic I wish to learn for the day.	Learners are able to view all Oppia-curated classrooms, and select any to start.	Must have	I am presented with an introduction of Oppia classrooms on the Classrooms page, along with the Math and Science classrooms here.	 PM low-fi mocks - Oppia ...	Learners presented with an introduction and available classrooms.
					The available classrooms (Math and Science) are clickable and direct me to the relevant classroom pages when clicked.	Same as above	Learners able to click on, and will be directed to the relevant classroom pages
					Classrooms that are not yet available will have an “under construction” banner appearing, and are not clickable.	Same as above	Learners will not be able to click on classrooms under construction
					Under the title for each classroom, I can see a short summary of the content that will be covered in each classroom.	Same as above	Learners find out more about math and science classrooms
6	Per Subject Classroom page	As a learner, I need to navigate back to the	Learners are able to navigate back to the	Should have	On each classroom page, I see a link to navigate back to the main Classrooms	 PM low-fi mocks - Oppia ...	Learners are able to navigate back to main

	(URL: oppia.org/learn/math or /science /financial-literacy)	classrooms page, so that I can see all available classrooms again.	main classrooms page to from the Math / Science classroom page		page.		classrooms page.
					On each classroom page, I am presented with all lessons related to that topic.	N/A - existing feature	Learners see all content available in each classroom.
7	Subject indicator for each topic (eg. Oppia.org/learn/math/fractions)	As a learner, I need to know which subject each topic relates to, so that I can plan my learning accordingly for each subject.	Learners are able to identify the subject that the topic they are learning relates to	Should have	On each topic page, I can see a breadcrumb which identifies the subject I'm learning	N/A	Learners can see the subject
					The breadcrumb is a clickable link that brings me to the subject classroom page (eg.math, science, etc)	N/A	Learners are able to access the subject page and browse other topics

Risks/concerns and mitigations

Risk/Concern	Mitigation
The features/changes relating to learner dashboard spelt out in this PRD are dependent on the implementation of the new learner dashboard.	If required, we can implement the features not related to learner dashboard first (stories 1, 2, 3, 5, 6), then story #7 (learner dashboard changes) later on. We can also retrofit story #7 into the current dashboard design, and ensure that science lessons show up in the "In Progress" section.

Internationalization/Localization

The new entry points to the Classrooms page, the Classrooms page, and Science Classroom page need to be internationalized.

Success Criteria

Key Outcomes

- Learners are able to access the new science classrooms page (using various navigation entry points accessible without logging in)
- Logged in learners are able to access and continue their science lessons from the learner dashboard
- Logged in learners are able to explore and start new science lessons from the learner dashboard

Automatically-collected metrics

Outcome	Metric (numeric)	Event	Event parameters (what specific data is collected when the event happens)	What to report (for the metric)
Learners are able to access the science classrooms page from public pages	Number of clicks on the science classroom navigation links	- Learner clicks on "Science Classroom" link in the Oppia Classrooms page - Learner clicks on "Science Classroom" from navigation bar - Learner clicks on "Science	N/A	Count of clicks on each navigation link per week/month

		Classroom” from Community library		
	Number of unique learners accessing the science classroom (this gauges usability of the pointers leading to the classroom)	Learner lands on the Science classroom page	User’s analytics ID (to determine whether the visit is unique)	Count of unique visits to Science classroom page
Logged in learners are able to access and continue their science lessons from the learner dashboard	Number of clicks on science lessons from the main dashboard “continue where you left off” section	Learner clicks on and “in progress” science lesson card and gets directed to the science lesson content	N/A	Usage of dashboard to continue in-progress science lessons per week / month. This is calculated as the count of clicks on any in-progress science lesson card in the dashboard.
	Number of clicks on science lessons from the dashboard “Progress” page			
Logged in learners are able to explore and start new science lessons from the learner dashboard	Number of clicks on science lessons from the main dashboard “Learn something new” section	Learner clicks on a new science lesson card (never started before) and gets directed to the science lesson content	N/A	Number of clicks on any new science lesson card in the dashboard, per week/month

Manually-collected metrics

None at the moment

Privacy Considerations

No new user data is collected as part of this feature. All privacy controls remain the same as it is today where we track lesson progress for logged-in learners.

Other considerations

What are the product-level launch/marketing milestones? (In particular, can this feature be broken into multiple meaningful incremental launches?)	The launch will be broken into 3 key phases as follows, prioritizing publicly accessible pages first, then learner dashboard changes. Phase 1: Launch stories #1, 2, 3, 5, 6 and 7 first. Phase 2: Launch retrofitted story #4 (based on existing dashboard design) Once milestone “Launch revamped learner dashboard” is reached, Phase 3: Launch story #4 (based on new dashboard design)
Is there anything that depends on the existing status quo that we should be careful not to break?	• Math classroom and lesson links within this page should remain the same (except with an addition of the “back” link to the main classrooms page) • Existing functionalities not mentioned in this PRD should behave as per normal with no change.
Are there any teams which need to change how they work due to this feature’s release? (Not just Web + Android, but also PM, dev workflow, language accessibility, GTM, partnerships, lesson development, etc.)	No
Are we taking up any new dependencies? (E.g., an app showing travel routes might have a dependency on Google Maps.) If so, what is our plan if this dependency fails under us?	No

Are there any potential security threats? How will they be mitigated?	No
Are there any legal considerations that aren't already covered in the privacy section above? (E.g. child transparency requirements, EU laws, etc.)	No