Classroom Mode Use Cases

[Github repo](#)

At a high level, teachers want to see two things:
1. Progress: How far has each student progressed in the curriculum
2. Struggle: Where are students getting stuck?

Progress

- Teacher can see progress by certification. For example, "23/124 challenges completed in Responsive Web Design" or "45/200 challenges completed in Front End Libraries" [V1]
- Within each certification, the teacher should be able to see a more granular progress breakdown of progress by topic. For example, within the Responsive Design Certification, the teacher can see the students' progress in the "Basic CSS" category. [V1]
- Teacher can see an exact list of completed and non-completed challenges. [V1]

Struggle

- Teacher can see a breakdown of the number of attempts per challenge (even for challenges not successfully completed yet). [V2]
- The Teacher can see trends in the class as a whole. Teacher can see which problems the class as a whole was struggling with. This means the teacher can see which problems had the highest number of attempts throughout the whole class. [V2]

Authentication

Needs admin approval

- Teacher can generate a class-code which can be given to the students.   [V2]
- Student can enter the class code in FreeCodeCamp's main website and give permission to expose their activity information for that classroom. [V2]

Pre-approved - MVP

- Teacher can give a url to a Student. When the Student visits the URL, the Student is automatically prompted to join the class. [V1]

○　xyz.classroom.freecodecamp.org/join/ID

General Engagement (Nice-to-have)
- Teacher can see when each student was last signed in. [data is there but not exposable yet]
- Teacher can see how many minutes each student has logged into FreeCodeCamp (broken down by date) [data is there but not exposable yet]
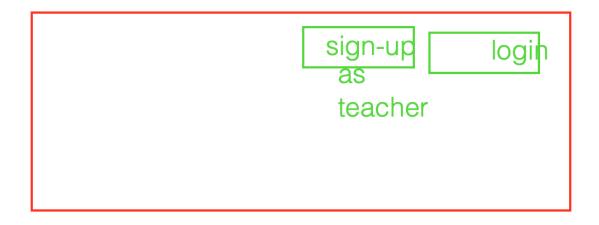
Potential version 2
- Teacher can assign specific drills/challenges for the class to work on.
- Teacher can set a due date for the assigned challenges
- Student is notified by new assignments after logging in to FreeCodeCamp.

Sign up / Login flow

We discussed two possibilities:
1. Two buttons: one for sign-up-as-a-teacher, one for login
2. One button: Sign in

sign-up as teacher　　login

Teacher sign-up	- Go to homeopage
	- Click "sign up as Teacher"
	
	- NextAuth magic ==> redirects back to Classroom App (/redirect_for_signup)
	
	- Look up user in the Classroom User table
	    ● is_admin == true
	        ○ take user directly to admin portal
	    ● is_teacher is undefined
	        ○ user is signing up for the very first time
	            ■ set is_teacher = true
	            ■ set approved = false
	        ○ redirect user to a "pending approval" dummy page
	    ● is_teacher == false***
	        ○ redirect user to a "why are you here" dummy page for students
	    ● is_teacher == true
	        ○ if approved
	            ■ redirect user to the teacher dashboard
	        ○ else
	            ■ redirect user to a "pending approval" dummy page

Login	- Click "Login"
	
	- NextAuth magic ==> redirects back to Classroom App (/redirect_for_login)
	
	- Look up user in the Classroom User table
	    ● is_admin == true
	        ○ take user directly to admin portal
	    ● is_teacher is undefined
	        ○ show an error "You are not a user of this app. Please sign up"
	        ○ Potentially clean up the User table ==> remove the dummy row that was created ???
	    ● is_teacher == false***
	        ○ show generic dummy page: "Why are you here?"

	● is_teacher == true
	    ○ if approved
	        ■ redirect user to the teacher dashboard
	    ○ else
	        ■ redirect user to a "pending approval" dummy page

Student sign-up	- Click the "invitation" link
	- Taken to a special student-sign-up page that says "sign in with FreeCodeCamp"
	- Student grants permissions to the Classroom App
	    - Insert row in User table
	    - set is_teacher = false
	    - append to list of fcc_user_ids with user's freeCodeCamp id
	- Redirected back to Classroom App? ==> dummy page that says "You are now in this classroom"

Sign up/Login

Teacher sign-up	- Go to homeopage
	- Click "sign up/login"
	
	- Look up user in the Classroom User table
	  ● is_admin == true
	    ○ take user directly to admin portal
	  ● is_teacher is undefined
	    ○ user is signing up for the very first time
	      ■ set is_teacher = true
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	    ○ redirect user to a "why are you here" dummy page for students
	  ● is_teacher == true
	    ○ if approved
	      ■ redirect user to the teacher dashboard
	    ○ else
	      ■ redirect user to a "pending approval" dummy page

Login	- Click "Login"
	- Look up user in the Classroom User table
	  ● is_admin == true
	    ○ take user directly to admin portal
	  ● is_teacher is undefined
	    ○ user is signing up for the very first time
	      ■ set is_teacher = true
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	    ○ show generic dummy page: "Why are you here?"
	  ● is_teacher == true
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	    ○ else
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Student sign-up	- Click the "invitation" link
	- Taken to a special student-sign-up page that says "sign in with FreeCodeCamp"
	- Student grants permissions to the Classroom App
	  - Insert row in User table
	  - set is_teacher = false
	  - append to list of fcc_user_ids with user's freeCodeCamp id

	- Redirected back to Classroom App? ==> dummy page that says "You are now in this classroom"