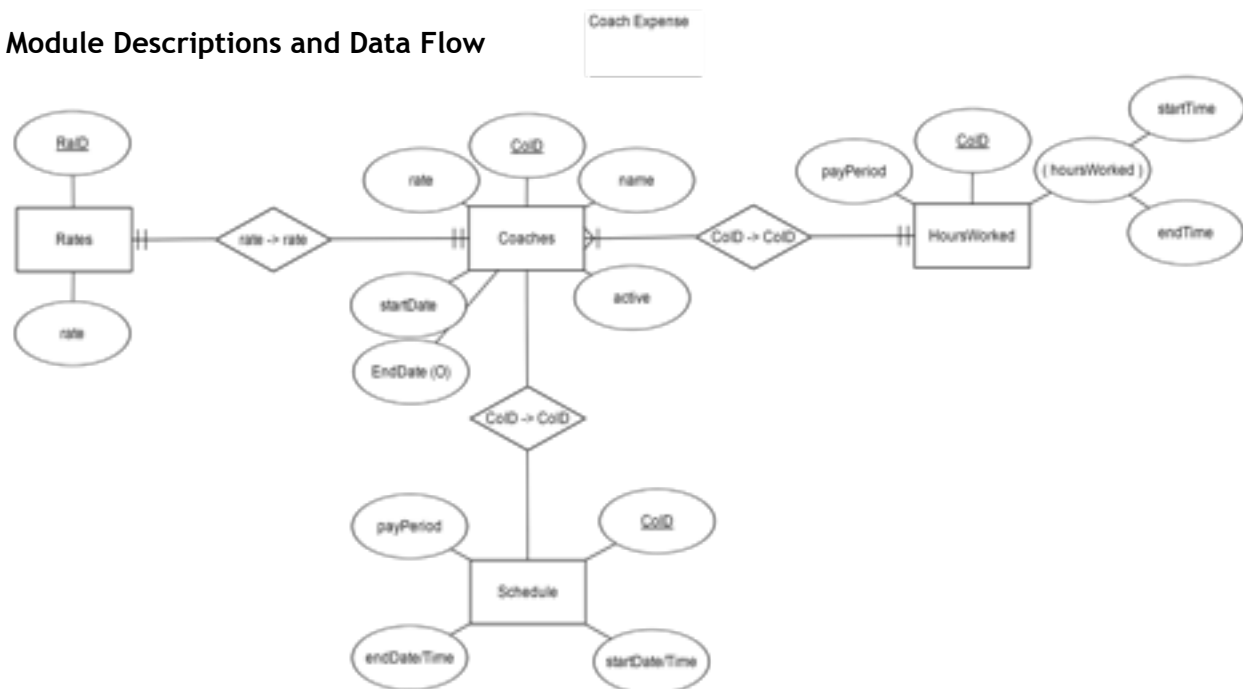


Environment

Ember.js, Node.js, MySQL

For the front-end of our web application, we decided to use Ember.js to keep our code clean and well documented. We are using Node.js as our rest API to handle requests from the Ember front-end and pull data from the database. We chose to use it because it makes the process simpler for developers to have a flow of data. We are using MySQL to store our data and we chose to use it because of its scalability and flexibility, it is also a language we all had previous experience with.

Module Descriptions and Data Flow



Log-in Page

The user will enter the login page via the ember front-end. They will be confronted with two text boxes; one for username and the second, directly below, for password. After clicking the submit button the ember.JS will send a request to the Node.JS REST API component that will pull from MySQL database and compare the results to determine authentication. If the login is failed then the user will be kicked back to the login page and asked to try again. Otherwise the user will be sent to the control panel for their role. A cookie authentication is retained to ensure login status.

Coach Page

The coach's page will only have their information and profile. The profile will consist of a stored profile picture and the amount they have been paid in the current pay period with

respect to the amount of hours they have worked. The coaches will be able to fill out their unavailability and see classes they are scheduled for on a calendar displayed on the right of the screen. This is the only view that the coaches can see.

Admin Main Page

The admin main page is the page that displays the admin's profile information (image, address, phone number email). The page will have a roster of all coaches who are registered in the system. On the right side of the display they will be able to sort all of the coaches by metrics such as: Hours worked, hours billed/hours worked, courses taught, etc. The admins will also be able to view their own calendar to fill out unavailability as well as see classes scheduled.

Admin Calendar Page

The Admin Calendar page is a page accessible to admins only. This is where they schedule any instructors to a certain class in the dates. When the admins drag-and-drop instructors to a particular date, there will be some form of display saying whether the instructor is eligible for this date or not. The instructors themselves (not on the calendar page) can say that they are unavailable in their own page, otherwise they will be assumed to be available. Each date in the calendar will also display the kind of class that will be held.

User Screens

The screenshot shows a web interface for an admin calendar. At the top left is the 'AWESOME INC' logo. The main area is a calendar grid with columns for days of the week (Monday to Saturday) and rows for specific dates (February 1st, 8th, 15th, 22nd). The days of the week are color-coded: Monday (grey), Tuesday (red), Wednesday (grey), Thursday (red), Friday (grey), and Saturday (red). The dates are also color-coded: February 1st (red), February 8th (grey), February 15th (red), and February 22nd (grey). To the right of the calendar grid is a sidebar titled 'Coaches' with three input fields labeled 'Name'. At the bottom left of the calendar grid, there are four colored circles labeled 'A', 'M', 'T', and 'C' with the text 'other information' below them. At the bottom right of the calendar grid is a 'Submit' button. At the very bottom of the page, there is a footer that reads 'ACADEMY / MENTORSHIP / TUTORING / CODING CLUB'.

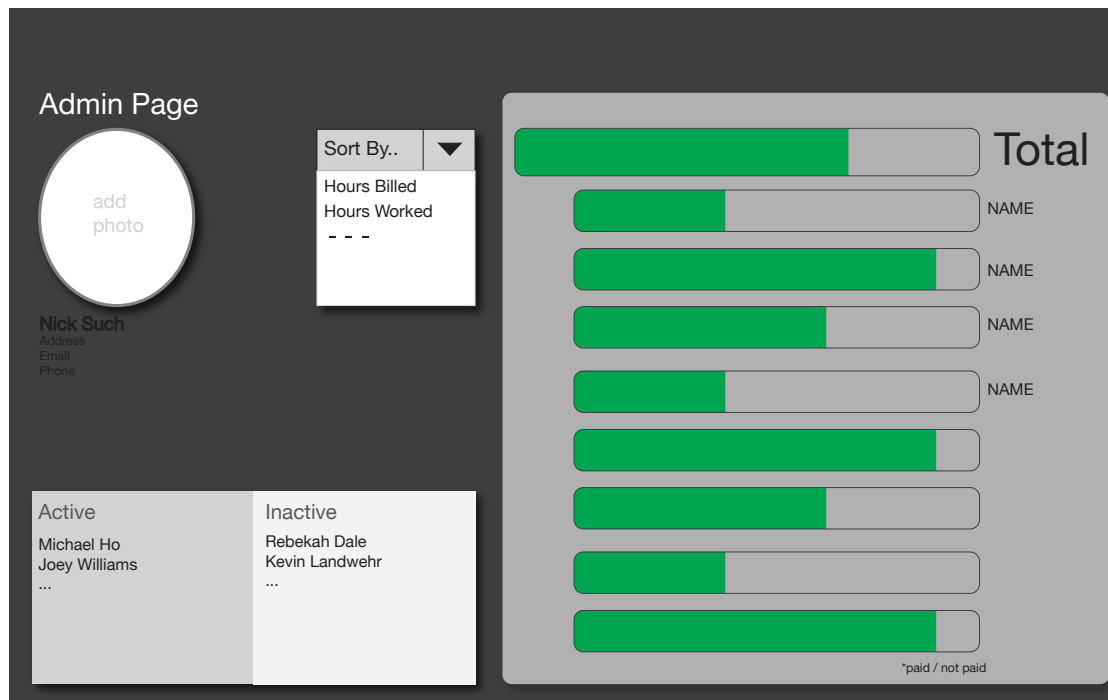
AWESOME INC	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Coaches
February 1st							Name
February 8th							Name
February 15th							Name
February 22nd							

A M T C
other information

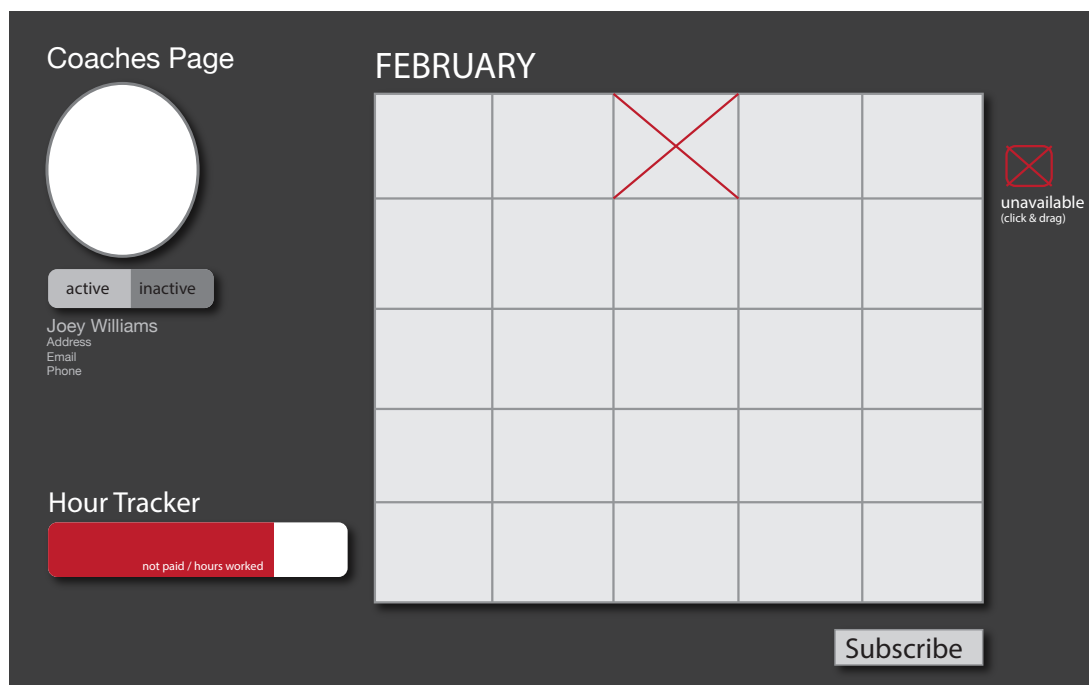
Submit

ACADEMY / MENTORSHIP / TUTORING / CODING CLUB

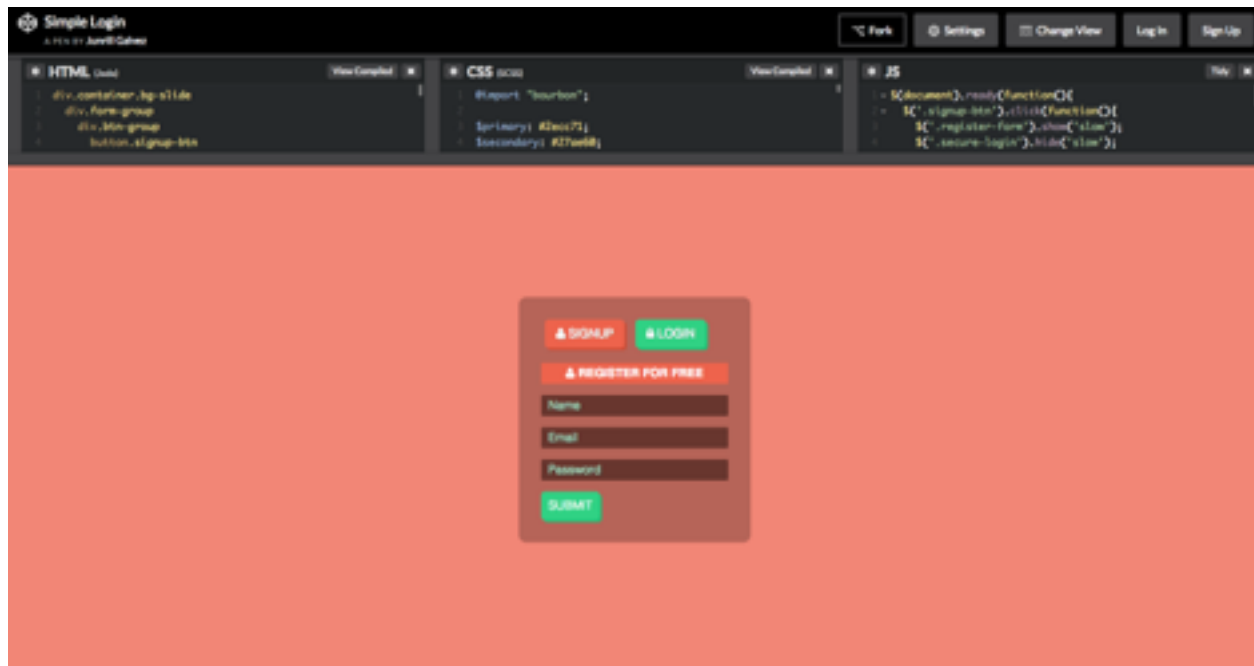
Above is the Calendar Page, which is only accessible to the Administrators.



This is the coaches page, which is only accessible to the coaches.



This is the Administrator Page, which is only accessible to the administrators.



Above is the Login Page, which is the first screen every user will see every time they open the web application.

User Scenarios (Use Cases)

Login Page:

- 1) This will be the first page any user can see. Based on their respective viewing privilege they will be taken to either the calendar page (admin) or coaches page (coaches).

Calendar Page:

- 1) When the admin opens the page, the first screen shows the interactive calendar
- 2) The list on the right hand side of the page has a list of the coaches, which the admin can click and drag over to the calendar
- 3) The user can scroll through the weeks to select which dates to schedule for
- 4) To lock in the coaches, the admin would then hit the submit button in the bottom right corner of the screen

Admin Page

- 1) The admin starts off with a view of their photo and their personal information
- 2) There is a dropdown box to select how to sort the payment bars on the right
- 3) The payment bars represent which coaches have been paid and how much is owed to them still

- 4) At the bottom left, there is a list to represent the active coaches and those who are inactive, meaning they're on vacation or unavailable for some reason

Coaches Page

- 1) Upon opening, the coach using the page can see their personal information and their photo
- 2) In the bottom left corner of the screen, the coach can view the amount of hours they have worked and how many they've been paid for
- 3) They also have a visual of the calendar that they can manipulate to mark which days they are unavailable
- 4) Once they have marked the dates they are not available, they can click the Subscribe button which will send the information on to the admin as well as allowing email notifications for them as the admin begins to schedule them, or classes become available.

Design Considerations

- 1) Eventually, Awesome Inc. would like the capability to allow the coaches to throw out classes they've been scheduled for that they would prefer not to teach. Due to time constraints, that is not on our list of requirements, but would be an added feature if there is extra time.
- 2) Awesome Inc plans on expanding to multiple locations in the future. They were interested in knowing if we could make the app support scheduling in multiple locations. We decided this for the time being was out of the spectrum of what we could do in a semester.

Sizing Estimate

- 1) We estimate that our project will be approximately 2500 lines of code total

Documentation specific to your project

