Softies Milestone 4

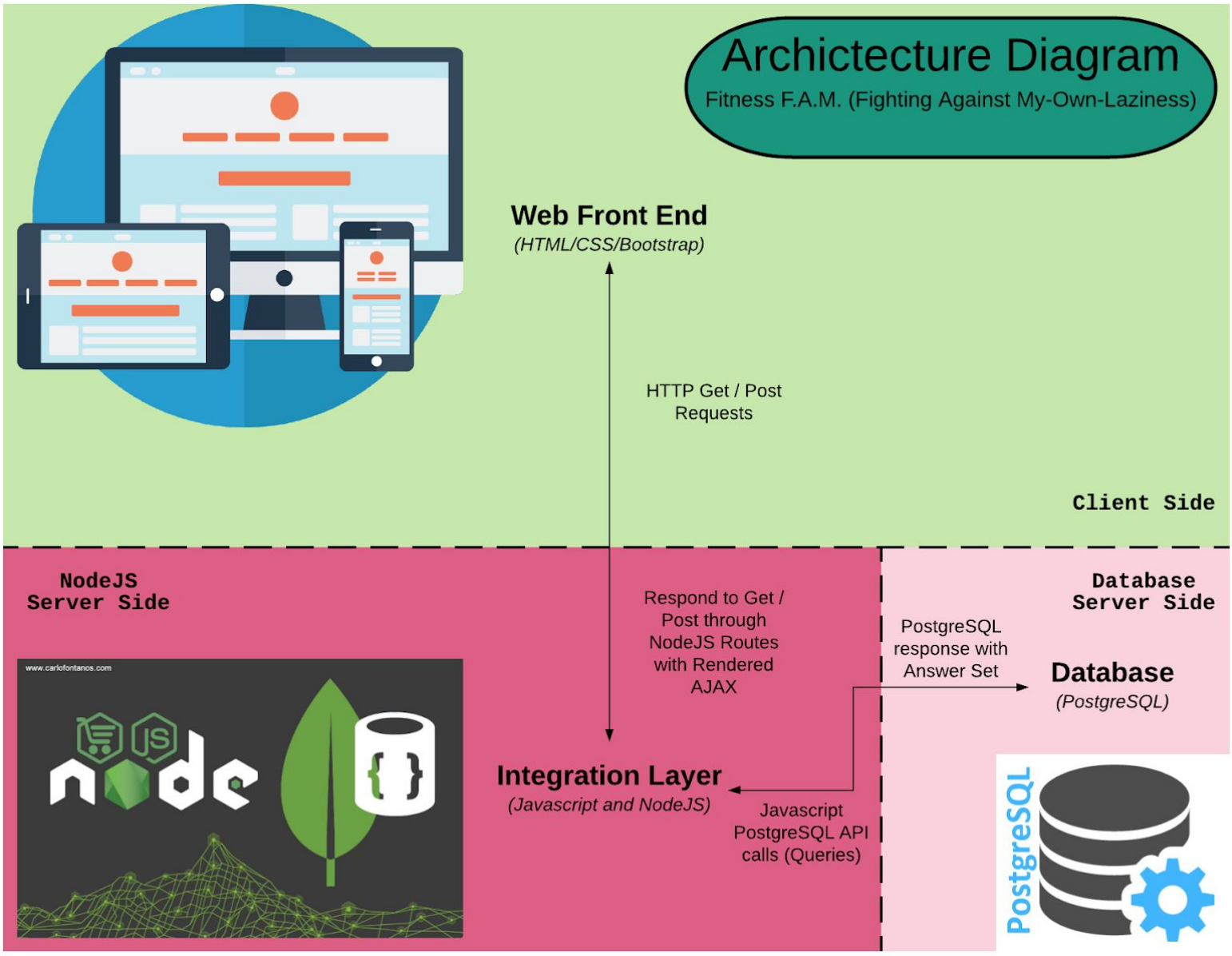
CSCI 3308 Group 107-3 Development Project
Madison Yost, Daniel Koris, Xinguan Tang, Dominic Pontious, Wyatt Richards

Project Features List (revised)

Highest Priority → Lowest Priority

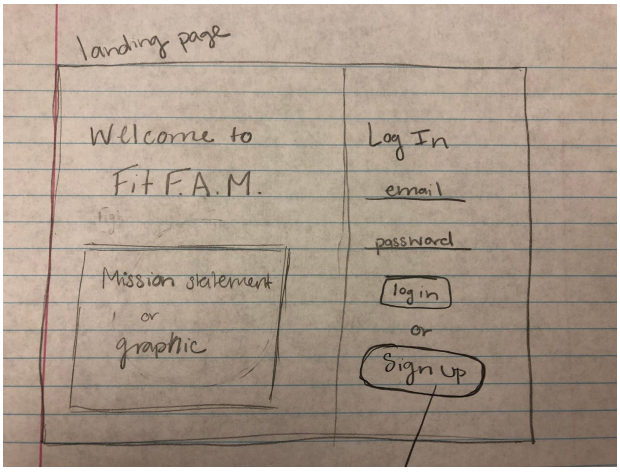
- User Sign-In/Sign-Up
  - Landing screen where the user either logs into their existing account or chooses to create an account
- Sign-Up onboarding
  - Get basic information from the user to set up their account
- Weekly Activity Tracker (Calendar)
  - Display this calendar week's planned/completed workouts in a calendar format
- Predetermined Workout Plan Template (Weekly)
  - Provides several sets of instructions for popular workouts
- Customized Workout Plan Template (Weekly)
  - Allows users to create and revisit individualized workout plans
- Workout Summary
  - User can see a graph of their fitness progress over monthly or yearly timeframes
- Awards
  - Users earn badges and earn associated points when they accomplish a goal
- Leaderboard
  - Based on the points earned from awards users see where they stack up against other users
- User Personal Info
  - Keeps track of weight, height, age calculates BMI
- UI-customization (colors etc)+
  - Allows the user to select a different site theme

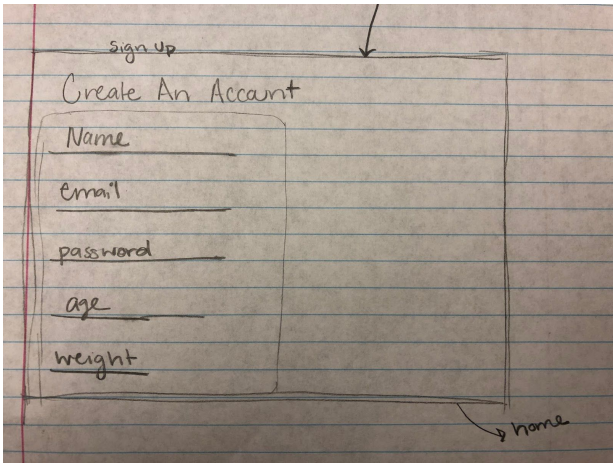
Architecture Diagram

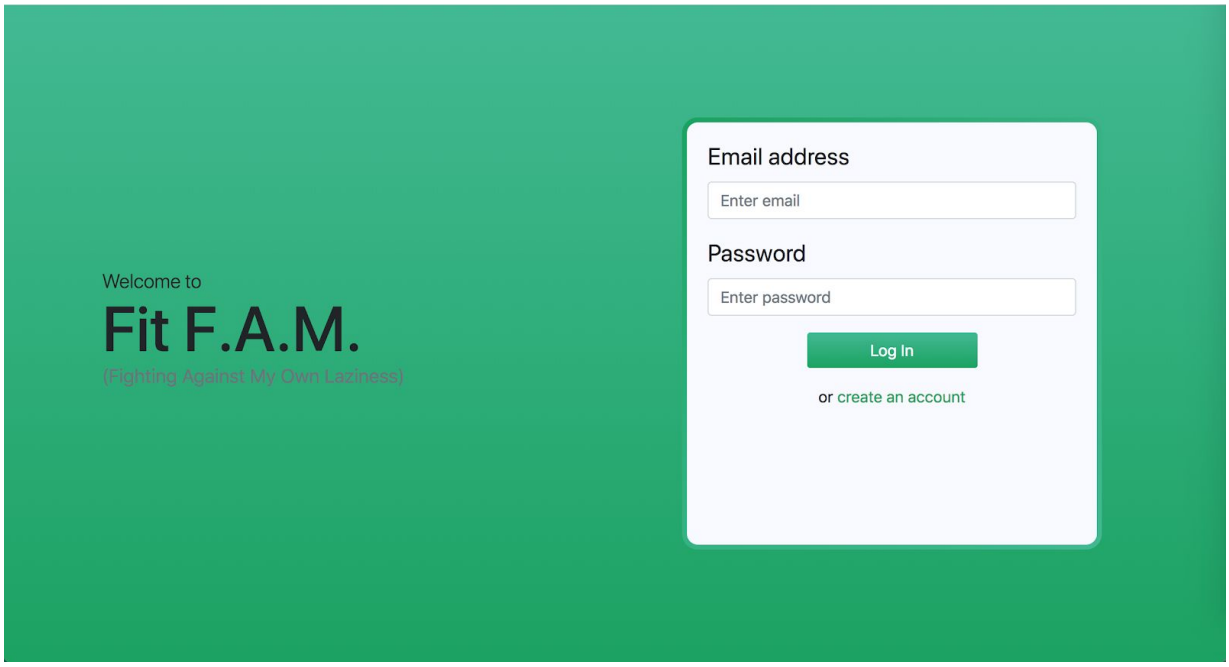


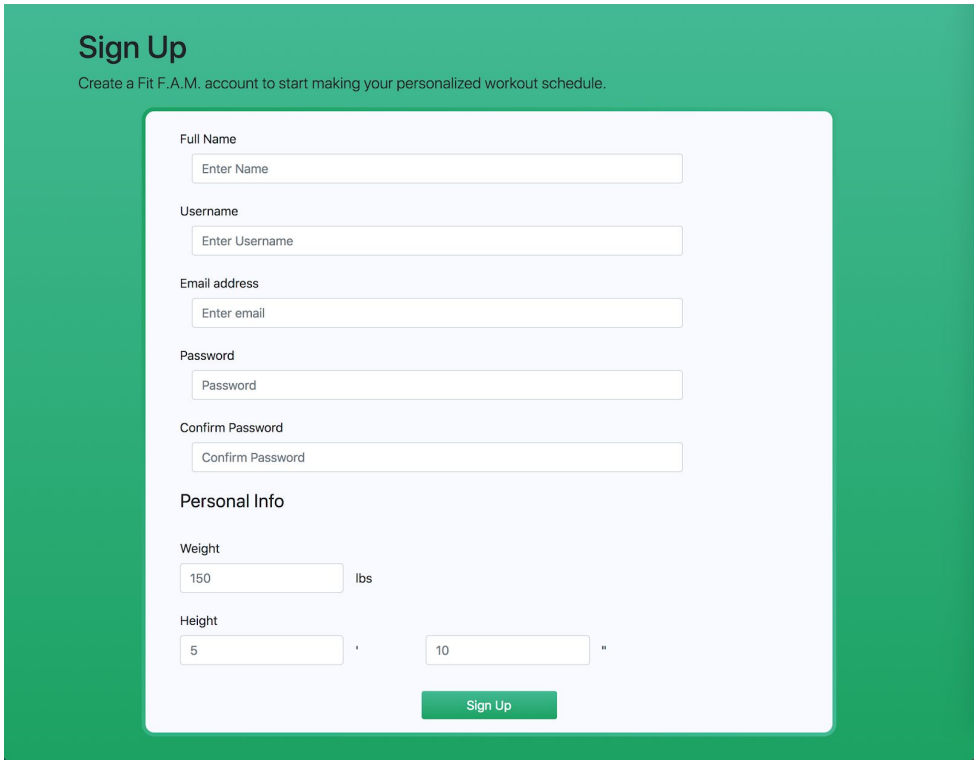
Front End Design

The front-end of our web application consists of seven different pages (or screens) that provide different functionality to the user. Our app landing page will be a login page that uses a form to collect the email/username and password from the user to allow them to log in to their account if it exists. New users can click on the create account button which will take them to the sign up page where they can enter the necessary information to create an account on the site. These two pages have gone from the wireframe stage to the development stage, photos of the wireframes and screenshots of the styled pages are included below.



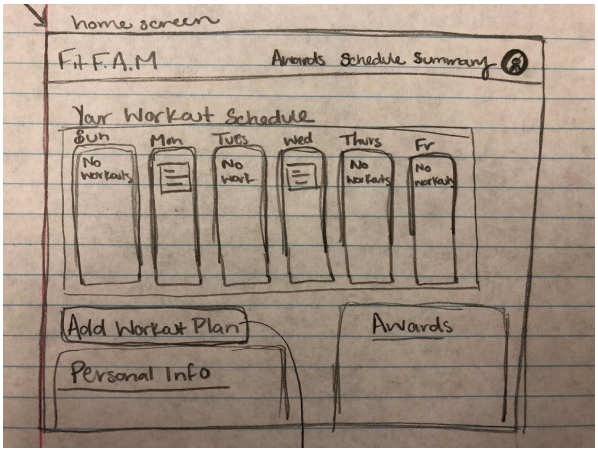


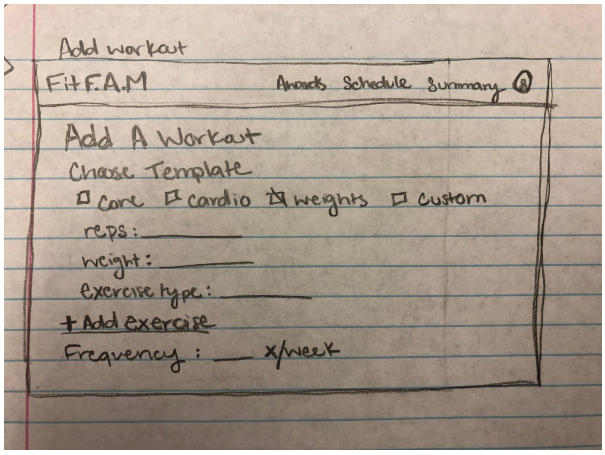




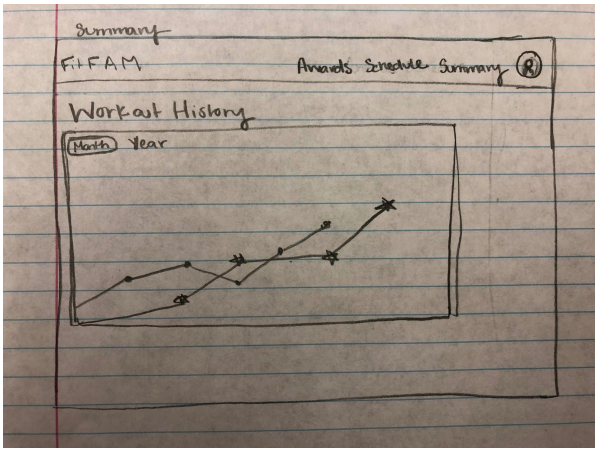
In addition to these pages we will also have 4 main pages that will display different information to the user once they are logged in to the site.

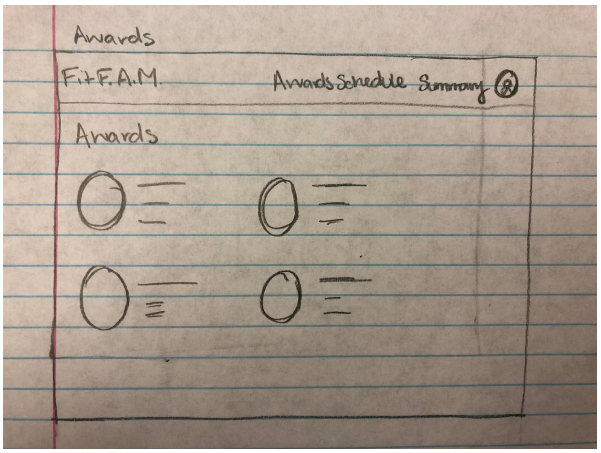
The first of these pages is a home page which will show a workout schedule in a weekly calendar view. This calendar view will display the workouts that the user intends to complete and allow them to mark with a checkbox if those workouts have been completed (as long as they are scheduled for today or a previous day of the week). This page will also include a button linking to the page that allows the user to add a workout using a form. The add workout page will allow the user to choose between different templates or create their own custom workout template. The home page also will include additional information from the user's account such as the awards they have earned and their personal information. The wireframes for the home page and the add workout page are shown below.



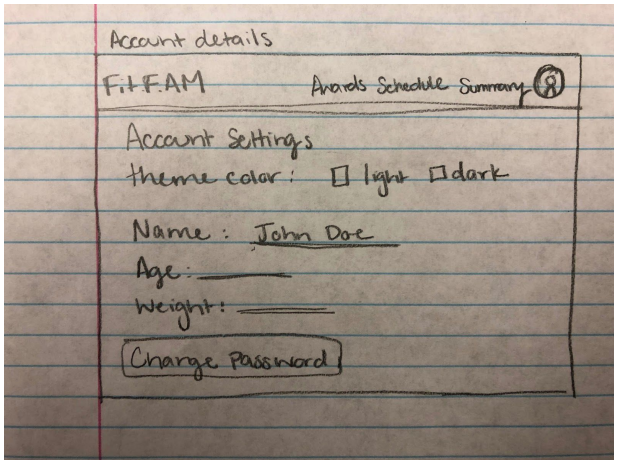


The next two of the main 4 site pages have to do with the user's workout information. We will have a summary page that shows a graph view of the user's past month or year's worth of workouts so that they can see their improvement over time. We also will have an awards page that will display the awards that the user has achieved as well as other awards that they could work on achieving in the future. The wireframes for these two pages are shown below.





The final page of our web app deals with the user's account information. The user will be able to see their personal information and change account settings, such as choosing a different site theme (light or dark) changing their weight or age and potentially resetting their password. The wireframe for this screen is included below.



Web Services Design

We don't anticipate needing to use any Web services, since all of our data will be stored in our database and we will not be pulling data from any external APIs.

Back End Design

The back-end of our web application consists of 6 tables. The language we are using to develop this database is PostgreSQL. The tables work in the following way: The Enjoyer table contains the account information for each user; The Achievement table contains each of the possible achievements that can be earned; The EnjoyerAchievement table acts as a link table, and this table holds the information on the particular achievements that have been earned and the date it was achieved; The Exercise table holds the various exercises that can be done; And the ExerciseIntent and ExerciseActual table use the Foreign Keys user_id and exercise_id in order to connect the various exercises to each user.