EE / CPR E / S E 492 – sdmay21-51

Team 51: Constrained Re-Planning in Spatial Crowdsourcing

"Bi"-Weekly Report 2: 02/22 – 03/01

Client &/Advisor: Goce Trajcevski

Team Members:

- Logan Anderson: Frontend/Test Engineer
- Steven Sheets: Backend/Test Engineer, Report Manager
- Nicholas Heger: Frontend Engineer, Progress Manager
- Jared Weiland: Backend Engineer
- James Volpe: Frontend/Backend Engineer

Past Week Accomplishments:

- Generated sample use cases for Dr. Trajcevski to ensure an understanding of how the system should interact with its users. Awaiting his feedback. – Everyone
- Heavy research into Spring Boot and MongoDB. Ran through multiple examples on GitHub. These can be viewed within the commit history on GitLab. – Steven and Jared
- Got backend communication with both retrieving and inserting data into our Mongo database. Can successfully select individual "collections" within our database for different sets of info. – Steven and Jared
- Continued to read documentation and learn how to use Mapbox API and adapt it for React, While Mapbox does have tutorials and examples for basic implementations, it is such a feature heavy API that there is a lot to try and piece together. – Logan
- Continued research into React, decided upon Bootstrap/React-Bootstrap for base UI and react-router-dom for routing, started testing different ways to make functional sign in/up page(s) and general app layout. – Nicholas

Pending Issues:

- Backend and Frontend communication to come - notably want to send data from DB to frontend, run experiments to test how it will be used. Will be discussed in a meeting later this week. - Everyone
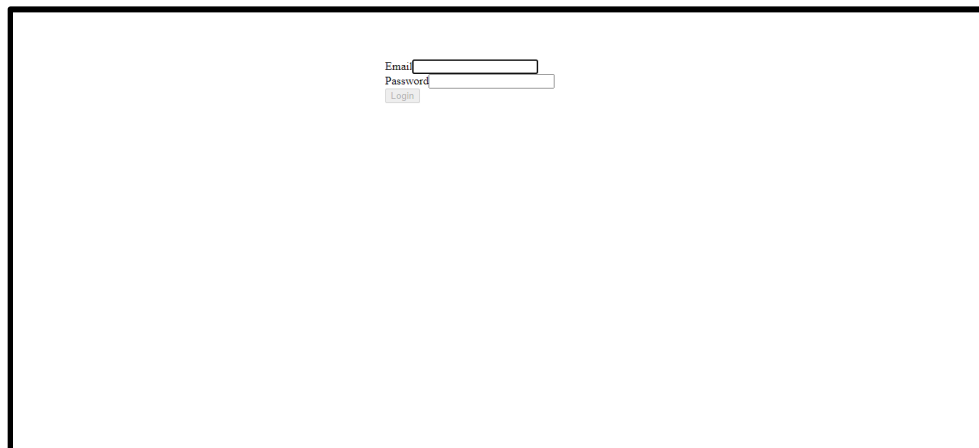
Individual Contributions:

Name	Contributions	Bi-Weekly Hours	Cumulative Hours
Logan Anderson	React, Report	4	18
Steven Sheets	Meeting Organization, React/SB, SB/Mongo, Report	7	19
Nicholas Heger	Use Cases/User Story, React/SB, Report	6	18
Jared Weiland	Server and Database, Report	6	16
James Volpe	React Research, Report	4	14

Plans for Coming Week:

- Meeting with Dr. Trajcevski to inform him of our current progression.
- On the backend side, currently working on creating collections for Workers and Employers, potentially skills and ranking. Will communicate with the whole team to ensure we're on the same page. It is simple to modify collections.
- Finish implementation of basic map system with directions and time estimates.
- Add UI to sign-in/create account page, create home page to send users to after sign in/create account, and link pages together.
- Add user create account validation and hook up with backend.

Some Screenshots:

Basic Sign-in Page Skeleton:

MongoDB Cluster Opening Page

MongoDB Compass-Cluster Connection Opening Page

MongoDB Compass Ames DB Collection Page