EE / CPR E / S E 492 – sdmay21-51

Team 51: Constrained Re-Planning in Spatial Crowdsourcing

Bi-Weekly Report 4: 03/01 – 03/15

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:

- Implemented the log in and sign-up pages as components in react. Added UX for both, implemented with bootstrap forms and inputs, with a select element for a dropdown indicating the account type. Nicholas
- Researched and implemented a system for routing. Added react-router-dom to the project and began using it to route different pages. Added a top navigation bar to the web application that allows navigation between each component. - Nicholas
- Began creating a skills component to display the skills a worker has. Planning to use a list component to display current skills and a modal to add new skills. Started testing GET requests to retrieve current skills for a given worker. Nicholas
- Rewrote code base for map system due to memory bloat causing system crash. Map can process
 routes from a static start location to dynamic end locations and display estimated time as well as
 instructions for route. Started experimenting with Geocoding API, which allows transforming
 addresses into coordinates. -Logan
- Created Employers and Workers, with their respective repository interface. Created Skill and Location, to be tied to workers. Tested this legitimate mock-user in the database. Steven

Pending Issues:

• Frontend and backend still to be connected.

Individual Contributions:

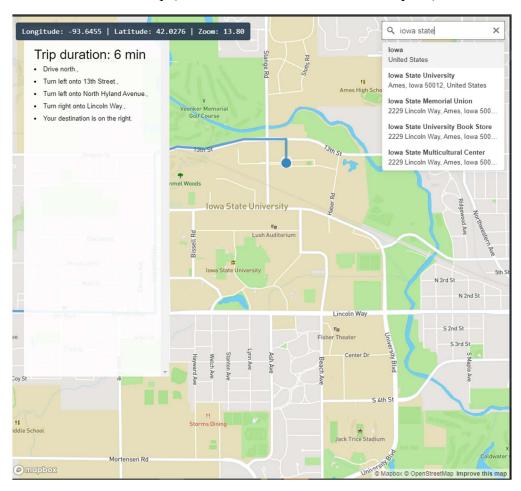
Name	Contributions	Bi-Weekly Hours	Cumulative Hours
Logan Anderson	React, Report, Map	8	26
Steven Sheets	Meeting Organization, React/SB, SB/Mongo, Report	6	25
Nicholas Heger	React (sign in/up pages, routing, skills page), Report	12	30
Jared Weiland	Server and Database, Report	3	19
James Volpe	React Research, Report	4	17

Plans for Coming Week:

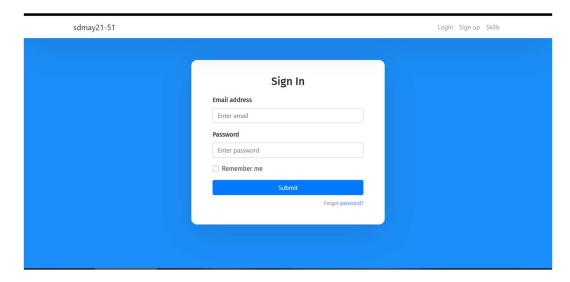
- Add create account / sign in client-side validation Nicholas
- Hook up create account page to POST to backend Nicholas + Steven/Jared
- Hook up sign in page to GET from backend Nicholas + Steven/Jared (same as above)
- Allow for user entered start location for routes using Geocoder API. Integrate map from independent React application into client side React as a web page. Logan

Some Screenshots:

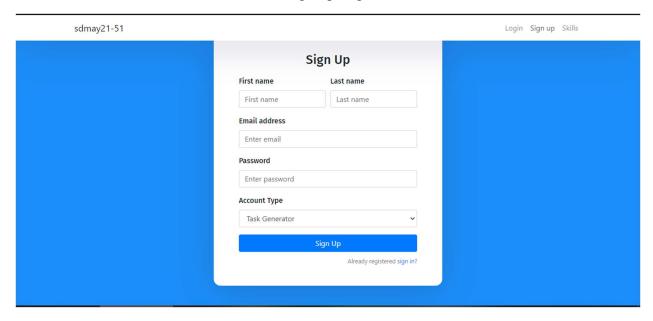
Current Map (to be reformatted once feature complete)



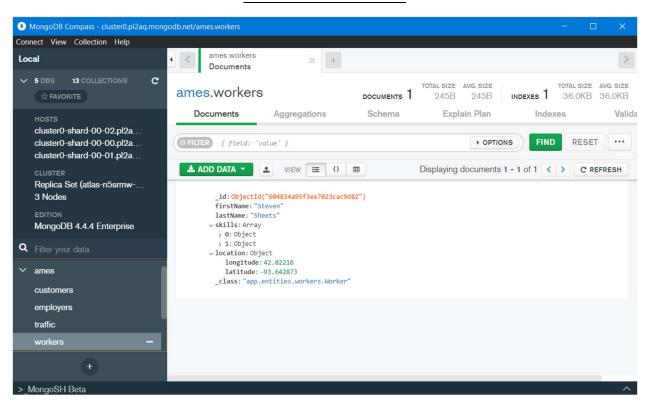
Sign-in Page



Sign-up Page



Worker Document in DB



Backend, General File Structure

