

sdmay20-22: Real-time Re-Recommendation System for POI Visits

Week 9 Report

January 27 - February 8

Team Members

Dheepak Nalluri — *Report Manager*

(Luke) Geng Sun — *Scribe*

James Eehinus — *Database Manager*

Andrew Peters — *Meeting Facilitator*

John Smolinski — *Chief Engineer*

Summary of Progress this Report

The objective for this report was to have a basic connection between the client and the server. To accomplish this task, our group had to create a server and develop the mobile application. Alongside these main tasks, we had to establish CI/CD so that development could become smoother and also learn how to properly use the technologies that we will be using in the project.

Dheepak set up the server and the environment for everyone to be able to run and develop it. He also set up the CI/CD with the server such that merges to the master branch will be automatically deployed on the server that the school gave to us. Andrew setup a registration page for a login such that the database can store any credentials that are entered. James worked on figuring out the MongoDB database that was running on the server such that the server could store certain values. John created the socket connection for the server and the web client such that the server responded to a simple message from the client. Luke worked on the mobile client socket connection to the server and sent a simple message as well.

A major change we had to make to the project was the framework that we were using. The previous framework Keystone.js was having issues with its environment and refused to compile due to dependency problems. It was also a newer framework and as such did not have much help online. We ended up having to scrap the entire server and move to Meteor, which worked a lot better.

The goal that was set by our client for this week was to make a basic server client connection that we achieved and therefore is a success.

Pending Issues

Our CI/CD pipeline needs to run tests before pushing to production such that production does not break due to an oversight. - Dheepak

The node modules folder contains node modules that the server depends on to run it, but it is not supposed to be pushed to the server. Those folders are persisting despite being in the gitignore. - Everyone

Database modification are local to the database that is modified(can't be pushed to git). Changes that are made have to be made in production. - James and Andrew

Plans for Upcoming Reporting Period

Our goal for the next sprint is to have a sample route for a user. It can be hard coded in or implemented partially.

Dheepak will be working on the server and connecting the Google API to the client and working as the middleman. Also will be fixing CI/CD issues.

Andrew will work on the web client and the database side of the server.

James will work on setting up the database with the information that is needed to store

John will be working on the back end of the mobile application and connecting it with the server

Luke will be working on the front end of the mobile application and setting up the maps and routing system.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Dheepak Nalluri	Implemented CI/CD. Setup the basic server. Created the socket on the server side for clients to connect to.	16	19
(Luke) Geng Sun	Created mobile client connection to the server.	9	12
James Eehinus	Setup and management of the database. Creating and testing of login system.	11	14
Andrew Peters	Setup some websockets on the server to accept various requests.	5	8
John Smolinski	Web client socket connection. Created a demo connection.	12	15