

# EE / CprE / SE 492 - Bi Weekly Report 01

Jan. 25 - Feb. 8, 2021

Group 34

## Route-Constrained Family Shopping Optimization

*Client: Iowa State University*

*Faculty Advisor: Goce Trajcevski*

*Project Contact: Ashfaq Khokhar*

### Team Members:

Colin Thurston - *Team Leader*

Christian Baer - *Backend Architect*

Tavion Yrjo - *Backend Developer*

Colin Willenborg - *Mobile Developer*

Elizabeth Strzelczyk - *Web Developer*

Erich Brandt - *Web Developer*

### Weekly Summary:

The objectives over these two weeks were to familiarize ourselves with what we have done the previous semester and going over our project plan to create a more in-depth storyline for how the user will interact with the applications. We got together with our advisor and have created a plan forward for the start of in depth development.

### Past Week accomplishments:

We have developed a detailed storyline for a user of our application, which goes through every step of a user's experience within the application. We have also fleshed out some preliminary UI designs for the mobile and web application. We also assigned main roles for each team member as we move forward in development.

### Pending Issues:

No issues to report this bi-week.

## Individual Contributions:

Name	Individual Contribution	Hours this week	Total Hours
Colin Thurston	Made more pages and links for the web app.	6	6
Christian Baer	Revised plan for MySQL tables and views	4	4
Tavion Yrjo	Helped with UI design and storylining for application	2	2
Colin Willenborg	Created control flow graph for mobile/web app	2	2
Elizabeth Strzelczyk	Assisted with storyline and UI brainstorming	2	2
Erich Brandt	Assisted with storyline and UI brainstorming	2	2

## Plans for upcoming week:

- Server - Christian
  - Find a host for the server
  - Create the ISS server so that the API and Web App/ Mobile App can be hosted on it
- MySQL - Christian
  - Create a finalized plan for the sql tables and views
  - Create the MySQL DB and populate it with tables and views
- Mobile app - Colin Willenborg
  - Create the initial mobile app layout
    - Create each individual page and link them to each other. Create the bare bones of the app without any communication with the backend.
    - Establish the basic look and feel of the app and establish the general theme of the app
  - As this progresses figure out other pages that need to be added to or included.
- Algorithms - Tavion
  - Start development for the A\* algorithm that is functional.
  - Start to constrain it with distance
  - Include functionality with the map in the web app.
- Algorithms - Colin Thurston
  - Start development of the web scraping algorithm.
  - Be able to bring in data from one website and display it.
  - Preliminary connection to the database.
- Web app - Elizabeth/Erich
  - Start development of a login/create an account functionality for the web app
  - Create page to change user's starting location

- Create initial web app layout
  - Create each individual page and link them to each other. Create the bare bones of the app without any communication with the backend.
  - Establish the basic look and feel of the app and establish the general theme of the app

### **Summary of bi-weekly advisor meetings:**

Our first bi-weekly meeting with our advisor was February 1st. We discussed the progress we had made over the first week back and how to progress over the next week. He advised us to create a detailed storyline and improve our UI designs.