

EE / CprE / SE 491 – sddec19-03

GoMe

Week 4 Report

3/1/19 – 3/8/19

Client: General Public

Faculty Advisor: Goce Trajcevski

Team Members

Michael Arnold - Chief Engineer

Jacob Montgomery - Lead UI

Jaclyn Ralfs - Data Analytics/Scribe

Akaash Suresh - Engineer/AI Tech

Mark Marrano - Systems Engineer/Requirements Analysis

Bailey Jensen - Lead Back End/AI Tech

Past Week Accomplishments

- Everyone- Began Working on the design document
- Got into our groups and discussed our topics-- Akaash and Bailey: A.I., Jake and Mark: System Design, Mike and Jaclyn: Data Analysis.
 - Began working on understanding how we are going to bring these three things together to work in the most effective way possible.
- Research more on google maps - Michael
 - Implemented Google Maps into existing project
- Answered all the questions about Firebase.
 - Created a Database/System Documentation document.
- Defined our goals more specifically and made sure we are starting with deep knowledge of topics and features before we start moving too quickly. - everyone
- Updated our 'Iteration Goals and Deliverable Schedule' document

Pending Issues

None

Individual Contributions

| Team Member | Contribution | Weekly Hours | Total Hours |
|------------------|--|--------------|-------------|
| Michael Arnold | Worked on understanding the data analytics of the project and researched strategies and techniques for data analytics to be used in the project. Helped define the data model | 3 | 24 |
| Jacob Montgomery | Researching design patterns, Firebase usage, data streaming fundamentals. UI research and prototype design. | 4 | 22 |
| Bailey Jensen | Worked with Akaash to solidify the data model. In addition, we started working on a prototype demo for a sleep schedule. | 2 | 17 |
| Jaclyn Ralfs | Researched approaches for analyzing large amounts of data and formatting data for machine learning models. Looking into different data sources (Fitbit, When I Work, Outlook, etc) to use in our application. | 5 | 19 |
| Akaash Suresh | Decided on the model of the data we need to collect for the application. Working on a working prototype of a ML application that takes in sample sleep data and can predict sleep schedules for following weeks. | 3 | 19 |
| Mark Marrano | Familiarized myself more with Firebase. Looked into how we can use Firebase's Test Lab in our project. Worked on design document and the Database/System design document. | 3 | 19 |

Plans for Coming Week

- Everyone- Work on design document

- Get into our groups and discuss our topics-- Akaash and Bailey:A.I., Jake and Mark: System Design, Mike and Jaclyn: Data Analysis.
- Use Fitbit to determine what data can be imported from it - Michael & Jaclyn
- Work out any bugs in the location tracking process currently implemented- Michael
- Research and document diagrams using design patterns - Mark and Jake
- Finish Database/System Documentation document - Mark and Jake
- Begin planning work for spring break- Michael
 - I will be in ames over spring break working on the iteration goals for the current iteration. In the weekly meeting I will be talking to each one of the teams to understand how I need to make the features and collect data to ensure it can be easily integrated with our systems and AI as well as easily scalable to large amounts of data.
- Work on prototype for ML to demo - Akaash and Bailey