EE / CprE / SE 491 – sddec19-03
GoMe
Week 5 Report

3/9/19 – 3/15/19
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 - Worked on design document
- Further discussed in our groups -- Akaash and Bailey: A.I., Jake and Mark: System Design, Mike and Jaclyn: Data Analysis.
- Set up Fitbit to determine what data can be imported from it - Michael & Jaclyn
- Worked out bugs in the location tracking process currently implemented - Michael
- Further discussed the differences between the Firebase Realtime Database and Firestore, and how we plan on utilizing both - Mark and Jake
- Planned on development to be done during 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.
- Prepared and demonstrated prototype of ML to faculty advisor - Akaash & Bailey
- Planning how we will store and adjust events that have not occured yet

Pending Issues
Determining every single different point of data we will need to collect and where it will be stored has been more difficult for us than we originally thought. We believe that once

we get to the point where we are collecting the application, we will have an easier time determining exactly what we need to do with the data. We plan on having data collection working by the end of Week 6 report (3/29/18).

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Michael Arnold	Begin studying google firestore, look into how the APIs connect to android and research how to implement the Abstract Interface Method	3	27
Jacob Montgomery	Studying Firebase Firestore, deciding data storing for future events. Work on Dsgn Doc	3	25
Bailey Jensen	Worked on design document. Reading through Keras documentation and learning to use it through examples. Exploring how to handle real time schedule changes.	4	21
Jaclyn Ralfs	Researching different data sources (Fitbit, When I Work, Outlook, etc) to use in our application	2	21
Akaash Suresh	Created a tensorflow demo in python to show the proposed functionality of our ML program.	16	35
Mark Marrano	Worked on design document, looked into firestore and the real-time database more. Researched the Firebase Test Lab and supporting third-party rule languages extensively. Set out a plan for scenario requirements outlines for hierarchical testing.	5	24

Plans for Coming Week

- Everyone - Work on Design Document
- Use Fitbit to determine what data could be pulled from it - Michael & Jaclyn
- Progress plans for data collection of the app and make sure to implement abstract interface design methods for implementing the APIs- Michael
  - Location
  - Sleep
    - FitBit
  - Tasks
    - Canvas
    - Google Calendar
    - Outlook

  - Events
    - Facebook API