Nate Ackermann, Nadia Asif, Polly Bainbridge, Calvin Lin, Sarem Rashid

Professor Densmore

EC327 Introduction to Software Engineering

December 11, 2017

**Project Timeline**

**Target finish date:** 12/10/2017

1. **Week 1: 11/12/17 - 11/19/2017**
   1. Objectives
      1. Define High Level Functionality
      2. Begin to develop plan for Google Maps API use and algorithm usage
         1. How will the user’s history of walks of be tracked
         2. How will the walks iteratively lengthen over time
      3. Investigate database mechanisms to be integrated
      4. Draft initial GUI design on paper for approval by team
   2. Meetings
      1. Tuesday: 11/14/2017
         1. Introduction of team members
         2. Assignment of roles
            1. Project Lead: Calvin Lin
            2. GUI Designer: Polly Bainbridge
            3. Interface Designer: Nate Ackermann
            4. Processing Designer: Sarem Rashid
            5. Documentation Manager: Nadia Asif
         3. Set standard meeting time and group member expectations
      2. Thursday: 11/16/2017
         1. Create “hello world” app as group
         2. Research and discuss Google Maps API functionality and brainstorm integration into app
         3. Research and consider the integration of different databases
            1. Firebase
            2. SQLite
            3. Realm DB
         4. Discuss visual requirements of GUI and sketch plan for app pages
            1. Simple and intuitive for use by elderly
            2. White background with black writing to improve visibility
            3. Clear visuals and instructions
2. **Week 2: 11/20/2017 - 11/26/2017**
   1. Objectives
      1. Create basic GUI structure in Android Studio
      2. Experiment with Google Maps API in order to learn capabilities
      3. Experiment with Firebase in order to learn capabilities
   2. Meetings: No meetings conducted due to Thanksgiving break, group members work on individual Android Studio apps while at home to integrate on return to BU.
3. **Week 3: 11/27/2017 - 12/3/2017**
   1. Objectives
      1. Finalize GUI screen design in Android Studio
      2. Integrate Google Maps API to app design
      3. Integrate database mechanism to app design
   2. Meetings
      1. Tuesday: 11/28/2017
         1. Group commentary on GUI structures completed and plan for improvement developed
         2. Report on Google Maps API research
         3. Report of Firebase research
      2. Thursday: 11/30/2017
         1. GUI structure completed with logo and images and approved by group
         2. Google Maps API and Firebase tests run on emulator
4. **Week 4: 12/4/2017 - 12/10/2017**
   1. Objectives
      1. Integrate all code into one app
      2. Debug app and run on emulator
      3. Conduct test cases to ensure app can withstand use
   2. Meetings
      1. Tuesday: 12/4/2017
         1. Use Github to integrate all code into one Android Studio Project
         2. Debug program so it is capable of running on emulator
      2. Thursday and Friday: 12/7/2017 & 12/8/2017
         1. Continue debugging program so it is capable of running on emulator
         2. Conduct test cases to ensure app can withstand use
      3. Saturday and Sunday: 12/9/2017 & 12/10/2017
         1. Film promotional video
         2. Finalize Documentation
      4. Monday: 12/11/2017
         1. Submit