**Snapfit**

Authors: Chih-Yu Lee, Adithya Varma, Ogadinma Njoku

Team: Lutein

Issue Date: 09/24/2020

**INTRODUCTION (required)**

The aim of this project is to build a web application dedicated to helping users find partners to exercise together. The user needs to log in to the system with a google account. After logging in, the first step is to edit personal information. After the user finishes editing his personal information, he/she can then start to use other functions, such as exercise schedule function, friends function, and search Sports partner function.

# **ROLES AND RESPONSIBILITIES (required)**

Development Lead: Chih-Yu Lee

Buildmeister: Adithya Varma

Architect: Ogadinma Njoku

Developers - Chih-Yu Lee, Adithya Varma, Ogadinma Njoku

Test Lead: Adithya Varma

Testers: Ogadinma Njoku, Adithya Varma, Chih-Yu Lee

Documentation: Ogadinma Njoku, Adithya Varma, Chih-Yu Lee

Documentation Editor: Chih-Yu Lee

Designer: Chih-Yu Lee

User advocate: Ogadinma Njoku

Risk Management: Adithya Varma

System Administrator: Adithya Varma

Modification Request Board: Ogadinma Njoku(leader),Chih-Yu Lee, Adithya Varma

Requirements Resource: Ogadinma Njoku

Customer Representative: Ogadinma Njoku, Adithya Varma, Chih-Yu Lee

Customer responsible for acceptance testing: Ogadinma Njoku

# **METHOD (required)**

* Software: Python version 3.7, Flask API, Reactjs, DataBase - sqlite3
  + Language(s) with version number including the compiler if appropriate

Python version 3.7, Flask API,

HTML5, CSS3, JavaScript ES6

IDE: VSCode v1.49

Compiler : Babel

* + Operating System(s) with release number

macOs Mojave Version 10.14.6

* + Software packages/libraries used with release/version number

Frontend:

* + - Babel
    - Node.js - 14.8.0
    - React.js - 16.13.1
    - React-dom - 16.13.1
    - React-router-dom - 5.2.0
    - Webpack - 4.44.1
    - Axios - 0.20.0
  + Code conventions – this should preferably be a pointer to a document agreed to and followed by everyone
* Hardware:
  + Development Hardware - macbook pro
  + Test Hardware - macbook pro, iPhone 11 pro,
  + Target/Deployment Hardware - Any device which can use Chrome and firefox
* Back up plan (individual and project)
* Review Process:
  + Will you do architecture, usability, design, security, privacy or code reviews?
  + What approach will you use for the reviews (formal, informal, corporate standard)? Informal review
  + Who is responsible for the reviews and resolving any issues uncovered by the reviews? Each development team members
  + Code readings? Yes, the team will read the code
* Build Plan:
  + Revision control system and repository used Github
  + Regularity of the builds – Daily
  + Deadlines for the builds – Every sunday 6:30 pm
  + Multiplicity of builds
  + Regression test process – see test plan
* Modification Request Process:
  + MR tool
  + Decision process (board – if more than paragraph should point to alternate description)
  + State whether there will be two process streams one during development and one after development

# Virtual and Real Work Space

It is great to have a project room, it is also great to use a wiki or some document repository system so long as it is private. Google docs is not private but may be sufficient for a class or university project. The team will use google docs both repository and documentations

# **COMMUNICATION PLAN (required)**

## ***“Heartbeat” meetings***

The heartbeat meetings will take place every wednesday through zoom call.

## ***Status meetings***

The status meetings will be conducted biweekly on.

## ***Issues meetings***

Issue meetings will take place if and when any issue arises, and the issue finder needs to schedule a meeting with a development teammate who is most related to the issue at his or her earliest convenience as soon as possible by email.

# **TIMELINE AND MILESTONES(required)**

Milestone 1: Successful completion the connection between User interface and database by APIs

Participants: Chih-Yu Lee, Adithya Varma, Ogadinma Njoku

Begin Time: 09/17/2020 - 09/24/2020

* User Interface model
* Website landing page
* REST API
* Database setting

Milestone 2: Create backend for storing data

Participants: Chih-Yu Lee, Adithya Varma, Ogadinma Njoku

Begin Time: 09/25/2020 - 10/08/2020

* User tables // ({username },{unique id },{isLoggedin}...)
* User - workout schedule table // ({date: [{workout1},{workout2},{workout3}]})
* User - friends table

Milestone 3: Connecting frontend and backend

Participants: Chih-Yu Lee, Adithya Varma, Ogadinma Njoku

Begin Time: 10/09/2020 - 10/22/2020

Milestone 4: Implementing features with the application and creating test cases

Participants: Chih-Yu Lee, Adithya Varma, Ogadinma Njoku

Begin Time: 10/23/2020 - 11/06/2020

Milestone 5: Deploying and testing the application

Participants: Chih-Yu Lee, Adithya Varma, Ogadinma Njoku

Begin Time: 11/07/2020 - 11/20/2020

# **TESTING POLICY/PLAN (optional–software relevant)**

When a new build is completed, then we do unit testing or manual testing.

Before each milestone deadline, we test the overall builds.

# **RISKS (required)**

* Development team members encounter other problems in daily life resulting in development delay.
* Learning and implementing new technology may take longer than expected.
* Internet connection issues may arise.

# **ASSUMPTIONS(required)**

Project delivery is configured as expected.

Project will follow agile methodology throughout execution.

The team will code the backend in python and use sqlite3 for the database.

The roles and responsibilities of the team members will be the same.

The application will use REST API.