Team 6 Project Charter
Werk It

Team Members:
Dithi Saxena, Catherine Penquite, Abhishek Gunasekar, Christopher Yu, Vivek Nair

Project Title:
Werk It: A Cross Platform Fitness Tracker

Problem Statement:
Working out today, given the current pandemic, has become hard and lackluster. Werk It is a cross-platform application that makes working out from anywhere easy. This application provides an easy way to track and create workout plans and communicate one's progress with friends. This application is unique in its adaptability and ability to customize workouts and statistical graphs tailored to user input.

Project Objectives:
1. Promote a cross-platform sync between the iOS application and the web application.
2. Record data collected from user workouts, caloric intake, and fitness goals through the iOS app.
3. Produce graphical visualizations based on the user data and display them on the web app.
4. Generate workout ideas based on user data and display them on the web app (but is accessible through iOS app).
5. Create a motivational and competitive atmosphere through the ability to add and communicate with friends through the web app.
6. Allow accomplishments to be posted on social media applications like Twitter or Instagram.

Stakeholders:
Users: Typical users would include individuals interested in improving their physical wellbeing, ranging from those just beginning their fitness journey to experienced athletes.
Developers: Dithi Saxena, Catherine Penquite, Abhishek Gunasekar, Christoper Yu, Vivek Nair
Project Manager: Riley Hilder
Project Owners: Dithi Saxena, Catherine Penquite, Abhishek Gunasekar, Christopher Yu, Vivek Nair

Project Deliverables:
- Create a web app to mobile app flexibility using Angular and Ionic technologies.

- Startup landing page built with Bootstrap describing the product intended purpose and to attract potential users.
- Web app, including sign up/login page that uses Node.js which connects with the Firebase database that stores user information.
- Create a comprehensive workout status page for individual users which displays graphical visualizations using D3.js.
- Recommend exercises from Firebase database, selected using a JavaScript algorithm, for targeted muscle groups.
- Share fitness accomplishments between social media platforms using RESTful APIs.