Crucible

1. **Team Profile**

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* [Linkedin](https://www.linkedin.com/in/michael-duong-37a178246/)
* C++, x86 32 and 64 bit, MIPS, Linguistics, research experience, Python

Miles Wilson (Requirements Leader)

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* C++, Python, UI, x86, ARM, Machine Learning, AWS, research experience

Jason Garcia Solorzano (Team Facilitator)

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* C++, Python, x86, research experience

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* C++, Python, JavaScript, x86, Web Development, AWS

Tommy Stinson (Delivery Leader)

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  3. C++, C, Python, x86-64 assembly

1. **Proposed Project Description**
   1. Target Customers
      * People who are interested in eat healthier
      * People who want to lose weight
      * People want to gain weight
      * Fitness Enthusiasts
      * Influencers
      * People who want to share weight journey
   2. Value Proposition
      * This application will centralize the nutritional, fitness and social aspects in one application. Which will result in easier access rather than switching between different applications for nutritional tracking, weight training tracking and also social media. This application will use social media to connect various users of this application and create a community.
   3. Application Features and Description
      * Nutrition: This portion of the application will track the users calories and macronutrients and showcase this information inside of visual representation within this page of the application.
      * Social Media: Creating Skill Badges To add to Social Media Posts(opt in). Creating Preset Social Media Posts. Quests and achievements unlockable by reaching fitness and nutritional goals. Generates monthly reports for stats.
      * Central page with all badges achieved. Share on instagram, share on twitter, etc.
      * Fitness: On this page users will be able to keep track of the specific exercises that they performed, what weights they used, and how many reps and sets. This page will also have a catalog of exercises for users to pick from.
   4. Tools and Resources
      * Swift
      * AWS
      * UIKIT
   5. Challenges
      * Cloud integration
      * UI design
   6. Functional Features
      * Exercise tracker
      * Nutrition tracker
      * Achievement tracker
      * Quest database
      * Visualizations of fitness and nutrition data
      * Push Notifications for drinking water and for working out
      * Self-Reflection Quiz after workouts
2. **Plan of Work**
   1. We plan on coming together at least once a week in addition to class time where we will focus on difficult issues within our plans
   2. We will be working in coding pairs to maximize coding ability and comprehension
   3. We plan on working on each individual page of our app and then after testing and implementation we will collectivize the pages
   4. Michael and Jason will be starting work on the Fitness portion of the application, they will primarily be focusing on the implementation of the tracking of different pieces of information for this portion of the application
   5. Miles and Aryan will be beginning on the nutrition portion of the application. They will begin by creating structures that can contain information about the foods and end-users will be able to visually see their macronutrients within a graph
   6. Tommy will be starting on the Social Media Portion part of the application. However, as this is the most difficult portion he will be planning the layout and other less coding strenuous tasks until the remainder of the group are done with their portion of the application and then we will all collectively code the social media portion of the application.