**Progress Report**

**- Increment X -**

**Group #Y**

# Team Members

Noah Shaffer nws17<https://github.com/noahwilliamshaffer>

Jalal Jean-Charles joj19a<https://github.com/jelenji>

Matthew Kolnicki mjk20dh<https://github.com/MatthewKolnicki>

Xander Jean aj21s<https://github.com/XanderJean>

Randy Toberman rnt20 <https://github.com/rantoybs>

1. **Project Title and Description**

Our app is a fitness tracker. It will be responsible for monitoring the users diet and exercise. Users can choose goals, such as lose weight, gain muscle, or maintenance. The user will input their height, weight, and gender. In conjunction with their goals, the app will allocate a number of calories that the user should be consuming in a day. Food will be tracked based upon its total calories, micronutrients and macronutrients. The user will be able to define partitioning of their macronutrients and the app will alert the user when they have achieved their allotted macros. The app will also record exercise for the user as well. The app will provide workouts based upon the users goals and will be recommended to them based on their specifications related to what the app determines the best is for reaching their goals.

The current iteration of the application supports a login page that allows users to either sign in or create an account as well as upon login authentication the user will be taken to the home view of the application. Once the user has accessed the home page, there is a tab view at the bottom of the screen allowing the user to navigate to the workout, diet, fitness profile, and settings views. The user is able to see various cards in the workout and diet views that are clickable and will display information to the user about the workout and diet for the day.

1. **Accomplishments and overall project status during this increment**

For this increment we successfully added user authentication by integrating a Firebase database that stores previously signed up users who are then able to login to the application. Once logged in, users are able to access four different views that contain information regarding their fitness. These include a workout view, a diet view, a fitness profile, and a settings page. Within the workout view, there are clickable cards for daily workouts as well as a full body workout card that still needs to be implemented. The views that result from clicking on these cards will display the workouts for that day. In the diet view, we took a similar approach to the workout view and implemented a card view style for daily meal logging. When clicking on the diet page option in the bottom menu, the card view with todays diet will show up as the biggest card and then below that card will be a list of daily cards where you can see the calories logged for the day. Upon signup we will prompt the user for their specifications. This is read into the firebase database and is presented in the settings page. The settings page still needs to allow for these values to be changed. The data in these user settings page still needs to change the caloric expenditure of our user. The settings and fitness profile views are yet to be implemented but will display data from the user that pertains to that view.

1. **Challenges, changes in the plan and scope of the project and things that went wrong during this increment**

One of the challenges we faced on this increment was working with multiple branches and managing merge conflicts within github. This slowed the pace of development as it required an extensive amount of time to get our code added to our main branch. Another challenge faced was working with dependencies across machines. As dependencies were added to the project, they would occasionally fail to be loaded on other team members' machines as we pulled the updated code from github. The difficulty of working with the database was also underestimated. Tracking user data and displaying customized information related to the user was found to be difficult in some aspects of the project requiring us to limit the number of planned features that will be implemented. These include using biometric login as the integration with firebase authentication was not feasible.

Other aspects of the project we no longer plan to implement include different types of user profiles such as having coaches and users, instead it will be limited to only users. Also, we no longer plan to pull data from a health API to display normal ranges and will instead manually calculate information such as calories required per day by inputting user data into pre-existing formulas. Displaying dynamic content for the user is still planned to be implemented such as allowing users to choose their workouts for each day of the week as well as setting their diet and fitness goals. From this data, we will calculate the number of calories the user should consume each day and other aspects of their fitness. Further*,* we plan to allow users to track data such as their weight and calories consumed each day.

1. **Team Member Contribution for this increment**

a) Progress Report

Noah - did sections 1-5.

Matt - Added to sections 2, 3, 4, and 6.

 Randy - Added to sections 2, 3

 Xander - Contributed to project description in section 2 and plans for next increment in section 6.

Jalal - Contributed to writing section 4 (challenges) and edited section 3. Contributed to updating sections 2, 3 ,6

b) requirements and design document

Noah - contributed to 1- 3, and did the sequence diagram, contributed to the last 3 docs

Matt – Contributed to all sections and reviewed after edits by other members.

 Randy - Contributed to section 6 by describing the overall run environment as well as if there are any functional dependencies that the app relies on to pull data from and run properly.

Xander - Provided use cases used to make diagrams.

Jalal - Created the use case diagram using the use cases made

c) implementation and testing document

Matt – Contributed to all sections by editing

Noah -  Edited section 1 programming languages

Xander - Wrote planned API use and currently used technologies in section 2.

Jalal - edited section 2 to included Xcode IDE

d) source code

Matt - Created the workout view where users are able to see daily workouts and a full body workout. The cards for daily workouts are clickable

Noah - Helped with the layout of the pages, and testing, idea forming. Created the page to grab user data and implemented the page to display this data to the screen. Needs to make these values changeable.

Xander - Created profile view to show user information like age, height, weight.

Randy - Created diet view page where users can see daily meal tracking stats, and edited sign up and settings pages to display proper stats.

Jalal - Added code to the signup page as well helped point navigation from display. Implemented Data Storage using Firebase Database. Displayed user info on settings page

e) the video or presentation

Randy: Recorded Video

Noah: Provided a description of the project to be referenced in the template for the video.

Xander: Contributed to description of current state of the project

Matt: Helped review the code and functionality of the project to determine what would be discussed during the video

Jalal - Helped review the features and code associated with our program

1. **Plans for the next increment**

For the next increment of the application, we plan to complete the development for individual user profiles including progress charts and separate diet and exercise pages, as well as implementing firebase in order to allow for user authentication. For the individual user profiles, we plan to have two different views, one containing exercise information and one containing diet information. Both views will contain graphs and statistics on the users’ data for the day pertaining to each view.

1. **Link to video**

[*https://youtu.be/WNLhzDo-zgE*](https://youtu.be/WNLhzDo-zgE)