**Progress Report**

**- Increment 2 -**

**Group 5**

# Team Members

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1. **Project Title and Description**

Strictly Gains is a mobile fitness app designed to log a user’s workouts and track their progress over time. Its goal is to provide the user with a simple, clean, and easy to use interface making workouts more enjoyable and rewarding. The app also allows the user to create workout plans that target the user’s wants and needs.

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

Our main focus this increment was to allow the user to create, complete, and store a Workout. This basic functionality is essential to start with before we can begin to build upon it and add other useful features. We were able to allow the user to create a Workout by selecting Exercises from a premade list we created. After creation, the user is able to begin the workout and edit each Set’s weight and number of reps. We also began laying the groundwork for setting and viewing Goals. We were hoping to have more versatility and customizability for the Workout process than we currently have, as well as the ability for the user to create a Program to streamline Workout selection. Additionally, we have not yet added support for Account creation or the ability to view Progress over time.

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

**John:** I found the main challenge in working on the code to be the way that Activities and Fragments work within the Android API and how best to communicate between them. For example, I would like to be able to show the current Workout under the “Workouts” tab, but have not found a good way to “refresh” the Fragment after user Workout creation in the same way that you can refresh an Activity. I could use a button, but it would be nice to automatically refresh after returning from the WorkoutCreateActivity.

**Mason**: I am also having problems working with fragments. I am having trouble getting the goal fragment to update after the user completes their workout. Currently the fragment must be reloaded to show any changes. I have also had some issues getting the layout to look right on different sized displays.

**Michael**: Some challenges I encountered was figuring out how to set up the backend such as the data collection and registration/login. Hence, I focused more on the front-end side by adding on more screens and refining some parts. However, I was unaware of the upcoming due date for this increment and assumed it would be due later, hence I didn’t put enough attention to the project at hand and was not able to progress on the difficult aspects of this increment.

Now that we have a better understanding of the Android API, we should be able to implement all of the high priority requirements by the end of the third increment and do not yet see a need to substantially alter the project’s scope if we better spread out our workflow. As for things that went wrong, Felipe had an issue with his laptop and some members did not communicate until too late in the increment.

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

John:

1. Progress Report
   1. Edited items 3 and 4
2. RD Document
   1. Updated class diagram, added some textual descriptions for ambiguous use cases
3. IT Document
   1. Contributed to new items
4. Source Code
   1. Created all underlying classes (Set, Exercise, Workout) to enable the basic features
   2. Created a JSON document to supply the program with a premade library of exercises
   3. Wrote a DataHelper class to export and import classes for varying uses
   4. Wrote the logic flow and UI updates for workout creation, completion, and storage as JSON document in the Workout, CreateWorkout, and StartWorkout activities/fragments.
5. Video
   1. Shared screen and recorded video

Mason:

1. Progress Report
   1. Added to challenges and plans for next increment.
2. RD Document
   1. No changes
3. IT Document
   1. Added to execution-based functional and non-execution-based testing
4. Source Code
   1. Added chip buttons to create workout activity which are used to allow a user to add and remove exercises from the list to create a workout.
   2. Worked on some UI elements on the StartWorkout activity and added code to automatically store a user’s max weight for each exercise.
   3. Designed UI and code for goals tab. Implemented a drop-down list to display each exercise along with the user’s max weight for that exercise at the bottom. Added a pie chart which will compare the user’s max weight to their target weight.
5. Video
   1. Discussed the goals tab

Michael:

1. Progress Report

i) Wrote what I contributed to this increment

b) RD Document

c) IT Document

d) Source Code

i) Added registration activity

ii) Modified splash screen

iii) Modified Progress and profile fragments

e) Video

i) Participated in producing video

1. **Plans for the next increment**
   * Add more functionality to the workout activity.
   * Finish the Goals tab.
   * Begin work on the progress and profile tabs.
   * Add a graph that will display user progress over time for each exercise.
   * Work on data storage.
   * Add additional features for creating workouts.
   * Work on the backend, (registration and login features)
2. **Link to video**

https://youtu.be/5gOc\_GW0mBk