CEN4020 Group Project Iteration 2 Progress Report

# Group Members

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  3. Jared Rice; jnr17b; github: jarednrice
  4. Jeffrey Manassa; jwm16b; jeffmanassa97
  5. Kaedon Hamm; kah16h; Nodeak

# Project Title: KitchGym

Description: The KitchGym is a fitness/health mobile app that allows you to record your old workouts as well as create new ones. The results of these workouts can then transfer over to the health portion of the app where meals can be created depending on your required calorie intake.

# Accomplishments and Status this increment

* 1. More development on User Interfaces
     1. Functionality of buttons on Gym side of application
     2. Added weight-over-time graph prototype on Gym home page
  2. Researched integration of API’s into Android application
  3. Continued improving design elements of the application

# Challenges, changes, and things that went wrong in this increment

* 1. Lack of team meetings is causing the project to slow in progress. It is hard for our team to all meet at once due to conflicting schedules. Will work on planning ahead and communicating more/better
  2. Learning how to integrate API into Android application using Android Studio
  3. Deciding between using local database, Firebase, or drawing from API to retrieve Exercises

# Team Member Contribution for this increment

* 1. Tristan Ferrara
     1. Progress report: Added to accomplishments and status this increment.
     2. Implementation and Testing document: Added information about non-executive testing for design and visual choices.
     3. Source Code: Redesigned home page to be more functional, descriptive, and visually pleasing
     4. Video: N/A
  2. Kiara Boone
     1. Progress report:
        1. Added to Accomplishments
        2. Added to Challenges
        3. Filled out Plans for Next Increment
     2. Requirements and Design document:
        1. Reviewed document and new class diagram
        2. Ensured that non-functional requirements were measurable
        3. Expanded on some functional requirements
        4. Created new use case diagram and added textual descriptions
     3. Implementation and Testing document:
        1. Added to Execution-Based Testing Documentation
     4. Source Code:
        1. Continued development for Gym side UIs
        2. Developed functionality between Gym side buttons and Activities
        3. Attempted to implement Gym APIs to allow access to different exercises
        4. Created Kitchen home page
           1. Added functionality to “Input Food” button
     5. Video:
        1. Ensured that video was completed
  3. Jeffrey Manassa
     1. Progress report: Fully implemented a login and signup system to track the users on the app and their weight goals. Implemented Firebase.
     2. Requirements and Design document: Added dependencies to section 7
     3. Implementation and Testing document: Added information regarding database and login system testing in the execution-based functional testing and non-execution-based testing section.
     4. Source Code: Created a User class, StartupPage, Login Page, added Firebase dependencies into the build Gradle and called methods to add users into the database.
     5. Video: N/A
  4. Jared Rice
     1. Progress report: Added to plans for next increment.
     2. Requirements and Design document: Designed the class diagram.
     3. Implementation and Testing document: Added information regarding the HelloCharts library.
     4. Source Code: Added a prototype for the body weight tracking graph.
     5. Video: Created and edited the video for this iteration.
  5. Kaedon Hamm
     1. Progress report: Added information to challenges
     2. Requirements and Design document: Updated Non-functional Requirements to reflect measurable requirements
     3. Implementation and Testing document: Inputted information about the Wger testing as well as Firebase testing
     4. Source Code: Focused on testing API as well as understand the Firebase DB so no direct contribution to the source code but will be seen in next increment

# Plans for next increment

* 1. Continue developing back-end
  2. Integrating various APIs
  3. From the chosen muscle groups, generate a workout by retrieving exercises from the API that match those muscle groups, and display the generated workout in the correct activity
  4. Allow users to name workouts
  5. Create timer that starts when User presses “Start Workout” and ends when User presses “End Workout”
  6. Implement UI for Users to search food items
  7. Calculate total calorie count for the day and display on Kitchen home page
  8. Implement weight change tracking via a line graph.

# Video Link

<https://youtu.be/ExlJr5kVdSw>