CS 40800: Backlog

Gym Rookies

Vishaal Bommena, Dhiman Swadia, Harsha Lingareddy, Sanat Mouli, Manoj

Polisetti

# Problem Statement

a. People that are new to working out face a great problem of trying to determine which exercises target what muscle groups. When referencing different resources online, the amount of information confuse “*gym rookies*” at Purdue University. Our app plans to simplify the workouts in way, which is easier and more accessible for users by allowing users to create custom workout plans on their iPhones.

# Background Information

1. People who go to the gym on rare occasions or those who just began always face a similar problem in understanding how and what muscle groups to target with their exercises and when. Our application will enable the so-called “rookies” to receive proper information and guidelines to work out muscle groups and help them find help from experienced trainers and let them meet other fellow beginners to induce motivation.

# Environment

1. The platform that the majority of the team is comfortable with is an iOS platform.
2. We will be coding an iOS application using Swift as the main coding language
3. We will also be using A API for GPS data
4. We will be using online workout related API’s to gather information as well as hard coding workout routines into the app before presenting it to the user

Example API’s - https://github.com/davejt/exercise, https://wger.de/en/software/api

# Functional Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| **Backlog ID** | **Functional Requirement** | **Hours** | **Status** |
| 1 | As a user, I would like to login to the application | 5 | Sprint 1 |
| 2 | As a user, I would like to connect my Facebook account (If time permits) | 3 | Sprint 2 |
| 2 | As a user, I would like to find nearby gyms | 5 | Sprint 2 |
| 3 | As a user, I would like to know the rating of local gyms | 4 | Sprint 2 |
| 4 | As a user, I would like to know the cost of local gyms | 3 | Sprint 2 |
| 5 | As a user, I would like to know the Categories of local gyms | 5 | Sprint 2 |
| 6 | As a user, I would like to order gyms based of location proximity | 5 | Sprint 2 |
| 6 | As a user, I would like to view a homepage with tabs to switch to different pages | 4 | Sprint 1 |
| 7 | As a user, I would like to view a curated list of workouts | 6 | Sprint 1 |
| 8 | As a user, I would like to view a detailed view for everyone  curated workout | 4 | Sprint 1 |
| 9 | As a user, I would like to save a curated workout as a personalized workout (If time persists) | 6 | Sprint 2 |
| 10 | As a user, I would like to go to the list of all personalized workout | 6 | Sprint 1 |
| 11 | As a user, I would like to create workouts per muscle group | 10 | Sprint 1/ Sprint 2 |
| 12 | As a user, I would like to edit the number of reps in a personalized workout | 6 | Sprint 2 |

|  |  |  |  |
| --- | --- | --- | --- |
| 13 | As a user, I would like to select an exercise to view details | 6 | Sprint 2 |
| 14 | As a user, I would like to remove workouts from my list | 7 | Sprint 2 |
| 15 | As a user, I would like send a message when a workout is deleted | 4 | Sprint 1/ Sprint 2 |
| 19 | As a user, I would like daily reminders to go the gym | 4 | Sprint 2 |
| 20 | As a user, I would like to receive achievement badges on the app for specific milestones (If time permits) | 4 | Sprint 2 |
| 21 | As a user, I would like to search through all workouts using muscle group name | 5 | Sprint 2 |
| 22 | As a user, I would like to search through workouts using name | 4 | Sprint 1 |
| 23 | As a user, I would like to see Corec timings | 4 | Sprint 2 |

# Non-Functional Requirements

|  |  |
| --- | --- |
| **Backlog** **ID** | **Requirement** |
| 1 | As a developer, I would like to store all the users in a cloud database |
| 2 | As a developer, I would like to use a REST API to fetch information |
| 3 | As a developer, I would like to use industry standard authentication system |
| 4 | As a developer, I would like to set up Touch ID for login. |
| 5 | As a developer, I would like to set up protocol to send push notifications |
| 6 | As a developer, I would like to cache data to reduce load time. |
| 7 | As a user, I want easy to use design. |
| 8 | As a developer, I would reduce application lag |
| 9 | As a developer, I would like to use Automation testing framework. |
| 10 | As a developer, I would like to use common code style across code base |
| 11 | As a developer, I would like to reduce the amount memory leaks |
| 12 | As a developer, I would like some offline functionality |
| 13 | As a developer, I would like to develop ability to share on social media |

# Use Cases

|  |  |  |
| --- | --- | --- |
| **Case** | **Action** | **Response** |
| **“Create**  **Account”** | 1. Click “Create Account” button on login page | 2. Redirects to page with “User ID” and “Password” fields and a “Sign Up” button |
| **“Login”** | 1. Click “Login” button on login page | 1. Redirects to page with “Login   ID” and “Password” fields   1. Load the homepage |
| **“Preset** **Workout”** | 1. Click on Preset Workout in home page | 2. Load Preset Workout List |
| **“Preset**  **Workout**  **List”** | 1. Click on any item in Preset Workout List | 2. Render Detailed Preset List |
| **“Create** **Workout”** | 1. Click on Create Workout | 2. Redirects to personalized  Workout List |
| **“Personalized**  **Workout**  **List”** | 1. Click on any item in personalized Workout List | 2. Render a list of available muscle group |
| **“Create**  **Personalized**  **Workout”** | 1. Click to add from available Muscle Groups 2. Add number of repetitions and sets for exercises | 1. Add workout to database      1. Render all selected exercises and repetitions |
| **“Display** **Workout”** | 1. Click on any workout from personalized workout list | 2. Display the all selected exercises and repetitions |
| **“Delete** **Workout”** | 1. Click on any workout from personalized workout list 2. Delete Workout | 3. Remove Workout from the list 4. Remove Workout from the database |
| **“My Profile”** | 1. Click the My Profile Tab | 2. Load profile information and settings |
| **“Change**  **Password”** | 1. Click the Change Password | 1. Verify Old password 2. Select new password   3. Update the database |