CS 40800: Backlog

Gym Rookies

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1. **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.

2. **Background Information**
   a. 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.

3. **Environment**
   a. The platform that the majority of the team is comfortable with is an iOS platform.
   b. We will be coding an iOS application using Swift as the main coding language
   c. We will also be using A API for GPS data
   d. 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

4. 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 use touch id to login	3	Sprint 2
2	As a user I would like to view my profile	5	Sprint 2
3	As a user I would like to connect my Facebook account (If time permits)	4	Sprint 2
4	As a user I would like to edit my profile settings	3	Sprint 2
5	As a user I would like to edit my profile picture	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 each individual 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 according to 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 excercise 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 to open up the tab to look for "Gym Partners"	4	Sprint 1/ Sprint 2
16	As user I would like to see my partners on a map view	8	Sprint 2
17	As a user I would like to message someone to work out together	2	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

5. 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

6. 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	2. Redirects to page with "Login ID" and "Password" fields 3. 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	3. Add workout to database 4. 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 MyProfile Tab	2. Load profile information and settings
"Change Password"	1. Click the Change Password	2. Verify Old password 3. Select new password 3. Update the database

"Add Profile Picture"	1. Click add a Profile Picture	2. Choose picture 3. Upload picture to database
"Find a Partner"	1. Click on Find a Partner	2. Access geolocation of the user 3. Display on MapView 4. Access geolocation of the friends of the user 5. Display on Mapview
"Choose Partner"	1. Choose partner from map view	2. Display a detailed view popup.
"Message the Partner"	1. Click on Messages Icon	2. Render native message view
"Daily Workout Notification"		1. Display notification on the user's device