

MyCampusGym Requirements Specification

1. Software Requirements

1.1. MyProfile

1.1.1. Accounts

1.1.1.1. As a user, I need to be able to create an account and select my School/Organization/Campus so that I can save my profile information and view relevant classes, buddies, and posts.

1.1.1.1.1. As a user, I need to be able to sign up using an email address and password so that I can have a tailored experience.

1.1.1.1.2. As a user, I need to be able to enter my name and organization/campus/school during the sign up process so that my experience can be customized to me.

1.1.1.1.3. As a user, I need to be able to enter my email address and password to login to access my account.

1.1.2. MyJournal

1.1.2.1. As a user, I need to be able to record the details of my workout (such as length of workout, what exercises were done, and my daily nutrition intake) so that I can track my progress.

1.1.2.1.1. As a user, I need to be able to select “Record Workout” and fill out information about my workout to keep track of what I have completed.

1.1.2.1.2. As a user, when I select “Record Workout” I need to have a field to record the start and end time of my workout.

1.1.2.1.3. As a user, when I select ‘Record Workout’ I need to have a button to ‘Add Exercise’ to my workout.

1.1.2.1.3.1. As a user, when I ‘Add Exercise’ I need to be able to complete a field with the name of the exercise I did was so that I can go back and see what exercises I did during a specific workout.

1.1.2.1.3.2. As a user, when I ‘Add Exercise’ I need to be able to fill in a field to indicate how many sets/ reps/weight or minutes I did of an exercise so that I can track improvement on my exercise.

1.1.3. MyPlan

1.1.3.1. As a user, I need to be able to select my workout plan from professionally provided workout plans, so that I can begin to build a baseline knowledge of what I will be doing during each workout.

- 1.1.3.2. As a user, I need to be able to set goals (for the month/year), so that I can assess my progress towards meeting those goals.
- 1.1.4. MyRewind
 - 1.1.4.1. As a user, I want to be able to see data about my completed workouts so that I can determine my progress towards my goals and adjust accordingly.
- 1.1.5. MyHealth
 - 1.1.5.1. As a user, I need to be able to record data about my current health (weight, height, body mass index, [etc.](#)) so that I can view real-time progress in MyRewind.
 - 1.1.5.2. As a user, I need to be able to connect an InBody device so that my health statistics can be automatically recorded in MyCampusGym.
- 1.2. MyFitness
 - 1.2.1. Classes
 - 1.2.1.1. As a user, I want to be able to see what classes are upcoming and happening now at my facilities so that I can plan when I want to go to the gym.
 - 1.2.1.2. As a user, I want to be able to reserve a spot in the class so that I can be sure I will be able to attend the class if it is popular and I don't have to skip a workout.
 - 1.2.2. Occupancy
 - 1.2.2.1. As a user, I want to be able to know how busy the gym is, so that I can plan to go at a time when I will be able to get my workout done.
- 1.3. MyBuddies (requires MyPlan)
 - 1.3.1. Pairings (Recommended Matches)
 - 1.3.1.1. As a user, I want to be able to find others with similar plans via the MyBuddies features, so that I can work out with others and be held accountable.
 - 1.3.2. Group Meet
 - 1.3.2.1. As a user, I want to be able to connect with others, so that I can workout alongside them in or outside the gym.
 - 1.3.3. Messaging
 - 1.3.3.1. As a user, I want to be able to message others with similar workout plans, so that I can possibly workout with them as I try to reach my personal goals.
- 1.4. MyMentor (requires MyAssessment & MyPlan)
 - 1.4.1. Matching Algorithm

- 1.4.1.1. As a user, I want to be able to find a mentor whose workout plans are accessible to me given my physical ability/limitations, so that I can build upon or start towards my goals.
 - 1.4.2. Messaging
 - 1.4.2.1. As a user, I want to be able to message MyMentors, so that I can get advice or have workout plans tweaked in order to suit my current abilities.
- 1.5. MyFeed
 - 1.5.1. Campus Forum
 - 1.5.1.1. As a user, I want to be able to post to a forum so that I can ask questions about workout ideas, form, etc.
 - 1.5.1.2. As a user, I want to be able to comment on posts from other users at my campus so that I can help to answer questions or offer suggestions to their workout questions.
 - 1.5.2. Builder Feed
 - 1.5.2.1. As a professional trainer, I want to be able to post fitness information so that users can utilize updated information when they workout.
 - 1.5.2.2. As a user, I want to be able to see posts from professional trainers so that I can find expert answers to my workout progress.
 - 1.5.2.3. As a user, I want to be able to comment on posts from professional trainers so that I can ask questions and get clarification about fitness information.
- 2. Performance Requirements Section
 - 2.1. Application Launch in Less than 5 Seconds
 - 2.1.1. The application should launch when initially opened and display the first View within 5 seconds.
 - 2.1.2. If this does not occur, a loading icon should launch to show the user that there is action occurring.
 - 2.2. Data Load in Less than 3 Seconds
 - 2.2.1. The application should display data from Firestore Database within 3 seconds of the user navigating to the view.
 - 2.2.2. If this does not happen for any reason, whether it be the internet connection or a database issue, an error message should be displayed to inform the user of an unexpected delay so that the user is not unsure of the applications operation.
 - 2.3. Unexpected Error Handling
 - 2.3.1. If at any time the application experiences an unexpected or unhandled error, the application should display an error message to avoid an unknown crash.

3. Environment Requirements Section
 - 3.1. Software Version 18.0 or Later
 - 3.1.1. To install and run MyCampusGym, a user must have a device with iOS 18.0 or later.
 - 3.2. Available Memory above 25 MB
 - 3.2.1. To ensure successful installation, a user must have at least 25 MB of available memory.
 - 3.2.2. All other data is downloaded to the app at runtime and does not require device memory beyond installation and runtime RAM.