### Functional Requirements

1. App Functionalities
   1. Show public facilitates based on locations (Map API)
   2. Suggest exercise plans based on goals, health and preferences
   3. Show the nearest AED and medical facility
2. Login
3. Customer
   1. View Profile
   2. Edit profile
   3. Delete account
   4. View previous exercise plans
   5. Edit exercise plan
   6. Add review on exercises (Scale 1-5)
      1. Add qualitative review under rating
   7. Edit Review on exercises
   8. Delete Review on exercises
   9. Create New Threads
   10. Edit Threads
   11. Delete Threads

To be Considered

1. Admin
   1. Edit Events
   2. Delete Events
   3. View Data Analytics based on Exercises
   4. Add Exercises
   5. Edit Exercises
   6. Delete Exercises
2. The App shows public health events
3. The App should allow users to make friends. (Forum-like/ Thread-like)
   1. Users will be able to communicate on the app with their friends based on their locations and preferred exercise (Complicated) (Should not have DMs)

**\*\* Based upon other features**

Non-functional Requirements

1. Usability
2. Reliability
3. Performance
4. Supportability

Functional Requirements

| **Functions** | **Description** | **Actors** |
| --- | --- | --- |
| Login | User able to login into web applications | Customer |
| Edit Profile | User able to add and edit details such as health goals, weights, height, locations, genders, etc | Customer |
| Delete Account | User able to delete their own account | Customer |
| Map Navigation | User able to navigate map based upon their location and access data | Customer |
| View Exercise Plan | User able to view previous exercise plans | Customer |
| Add Review | User able to add review on the suggested exercise plans/exercises | Customer |
| Edit Review | User able to edit review on the suggested exercise plans/exercises | Customer |
| Delete Review | User able to delete review on the suggested exercise plans/exercises | Customer |
| **Create Threads** | **User able to create forum threads through posting information** | **Customer** |
| **Edit Threads** | **User able to edit forum threads details only when user have permission** | **Customer** |
| **Delete Threads** | **User able to delete forum threads details only when user have permission** | **Customer** |
| Add Exercise | Admin able to add new exercises with details of exercise | Admin |
| Edit Exercise | Admin able to edit exercise details | Admin |
| Delete Exercise | Admin able to delete exercise | Admin |
| Add Exercise Plan | Admin able to add new exercise plans | Admin |
| Edit Exercise Plan | Admin able to edit exercise plans | Admin |
| Delete Exercise Plan | Admin able to delete exercise plans | Admin |

**\*\*To be considered**

Additional Features:

| **Functions** | **Description** | **Actors** |
| --- | --- | --- |
| **View Public Events** | **User able to view events details** | **Customer** |
| **Add Events** | **Admin able to add new public events** | **Admin** |
| **Edit Events** | **Admin able to edit public events** | **Admin** |
| **Delete Events** | **Admin able to delete public events** | **Admin** |
| **View Data Analytics based upon Reviews** | **Admin able to view data and analyze the data reviews** | **Admin** |

Non-Functional Requirement

| **Non-Functional Requirement** | **Functions/Features** |
| --- | --- |
| Compatibility/Portability | Web Responsiveness   * Focused upon the compatibility with all platforms, mobile and desktop. * Allow easy access to the application without much limitation to a specific platform. |
| Security | OAuth2 Authentication   * Ensure that every users is valid and have the correct permission to perform actions |
| Usability | Navigation Toolbars and Clear Design Choices   * Easy navigability with consistent designs   Error Prevention   * Page Routing and clear concise error description * Error Pages when users navigated into an invalid page |
| Reliability, Maintainability, Availability | Error does not crash Application   * Able to maintain serviceability and availability up to 99.0% |