# IT 499: Capstone – Use Cases for Mobile App Enhancements

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Weight and See App use case diagram.

A diagram of a user

Description automatically generated

**Use Case 1 description:**

| Use Case Name:  Login | ID:  1 | Importance Level:  High |
| --- | --- | --- |
| Primary Actor:  App User | Use Case Type:  Detail, Essential | |
| Stakeholders and Interests:  App users | | |
| Brief Description: A user will login with a username and password they have already entered when creating a profile. | | |
| Trigger: Both the username and password is required.  Type: External | | |
| Relationships   * User Profile Record * Authenticating user class | | |
| Normal Flow of Events:   1. A user enters the username 2. A user enters the password 3. A button is clicked to login 4. The user is authenticated. | | |
| SubFlows:  S-1: During authentication:   1. The username is searched – if found, move forward 2. The password is compared for accuracy – if matching, move forward 3. If either field fails, the user stays on the login page and an error message is printed. | | |

**Use Case 2 description:**

| Use Case Name:  Create Account | ID:  2 | Importance Level:  Medium |
| --- | --- | --- |
| Primary Actor:  App User | Use Case Type:  Detail | |
| Stakeholders and Interests:  New App User: Ability to create a profile account. | | |
| Brief Description: A new user will create a profile account by entering their first name, last name, email, username and password. The fields are then validated. | | |
| Trigger: Click the Create Account button from the home screen.  Type: External | | |
| Relationships   * User Profile Record * Authenticating User Class | | |
| Normal Flow of Events:  Click the Create Account button from the home screen  Enter the required fields  Click the Create Account button | | |
| SubFlows:  S-1: Adding a new profile:  The following information is captured to complete a new record:   1. First Name 2. Last Name 3. Email 4. Username 5. Password   S-2: Modifying a Profile:  Query the database using the profile ID.  Make the necessary changes to the available fields.  Save the changes.  S-3: Delete a Profile  Query the database using the profile ID.  Delete the profile that matches the profile ID. | | |

**Use Case 3 description:**

| Use Case Name:  Add Daily Weights | ID:  3 | Importance Level:  Medium |
| --- | --- | --- |
| Primary Actor:  App User | Use Case Type:  Detail, Essential | |
| Stakeholders and Interests:  App User – user can add a new weight along with the date that will save to the database | | |
| Brief Description: Daily weights are added or deleted and are stored with the profile ID of the user. | | |
| Trigger: After authenticating the user, the Weight Progress screen will display. Any existing weights will be shown, which can be deleted, or a new weight can be added.  Type: External | | |
| Relationships   * Association: App User * Include: Authenticate User * Generalization: Weight CRUD operations | | |
| Normal Flow of Events:   1. App user will view their weight progress 2. A new weight can be added. 3. An existing weight can be deleted. | | |
| SubFlows:  S-1: Adding a new Weight Record:  The following information is captured to complete a new record:   1. Profile ID 2. Weight 3. Date of Entry   S-2: Delete a Weight   1. Query the database using the weight ID. 2. Delete the weight record that matches the weight ID. | | |

**Use case 4 description:**

| Use Case Name:  Authenticate User | ID:  4 | Importance Level:  High |
| --- | --- | --- |
| Primary Actor:  App User | Use Case Type:  Detail, Essential | |
| Stakeholders and Interests:  App user – the following functions would include the Authenticate User class – login, navigating to a new page, adding or deleting a weight, editing your profile. | | |
| Brief Description: It will check that the username and password matches the user profile ID. | | |
| Trigger: The authenticate user class is triggered from the login screen and when the user is navigating to a new screen. It will ensure there was no logout function triggered.  Type: Internal | | |
| Relationships   * Association: None * Include: Login, Create/Edit Account, Add/Delete Weights * Extend: None * Generalization: None | | |
| Normal Flow of Events:   1. A user logs into the system. 2. The system validates the user against a database of usernames and passwords.    1. If the user enters the correct credentials, the system will move forward.    2. If the wrong credentials are entered, the system displays an error message. | | |

**Testing:** Validating the Use Cases against the proposed enhancements.

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| --- | --- | --- |
| **Requirement** | **Type** | **Association** |
| Accessible as a mobile app | Non-functional | N/A |
| Authenticate users | Non-functional | **Use case 4:** Authenticate User |