Complete Workout - Use Case

Goal

A *Customer* completes a customized workout.

Pre-Conditions

The *Customer* has created a workout.

Flow of Events

Basic Flow – *Customer* enters workout information and completes the workout.

1. This use case begins when the *Customer* tells the system to complete a workout that has been created.
2. The *system* presents the *Customer* with the workout exercises.
3. The *Customer* enters their workout information, in set/reps/weight for strength exercises, or time/distance for cardio exercises, then submits the data.
4. The *system* stores the data.
5. The Use Case ends.

Additional Detail

- The *Customer* is required to enter all fields (see complete workout Data Definition)

Special Requirements

- N/A

Post-Conditions

- The *Customer's* workout has been saved by the system and is now present in the *Customer's* Workout History.

Analyst Notes

- N/A

Create Account - Use Case

Goal

A *Customer* creates a new account in order to use the system.

Pre-Conditions

N/A

Flow of Events

Basic Flow – Customer enters personal information.

1. This use case begins when the *Customer* tells the system to create a new account.
2. The *system* presents the needed information for the user to input (see create account data definition).
3. The *Customer* enters their personal information and submits the data.
4. The *system* stores the personal information.
5. The Use Case ends.

Exception Flow #1 - Inputted Email is already in use

1. This flow begins when the *Customer* enters an Email that has already been used to create a customer account (reference Basic Flow number 3).
2. The *system* responds with an error stating the Email is already in use.
3. The Basic Flow continues where the *Customer* enters personal information (see Basic Flow number 2)

Additional Detail

- The *Customer's* Email and password are used for future logins
- The *Customer* is required to enter all fields (see create account Data Definition)

Special Requirements

- Privacy - PRI1 - The system must protect users personal information. User's personal data must not be stored in plain text.

Post-Conditions

- *Customer's* personal information (see create account data definition) has been saved by the system.

Analyst Notes

- N/A

Create Workout - Use Case

Goal

A *Customer* chooses from a given selection of exercises to create a workout.

Pre-Conditions

- The *Customer* is authenticated into the *system.*
- The *Customer* must have already searched for a list of exercises..

Flow of Events

Basic Flow – Customer selects one or more exercises to create a workout

1. This use case begins when the *Customer* has received a list of exercises (see Search Exercises use case).
2. The *Customer* selects one or more exercises from the given list.
3. The *Customer* enters a workout name and submits the data.
4. The *system* saves the workout using the given name.
5. The Use Case Ends

Additional Detail

- The *Customer* is required to select at least one exercise to create a workout.
- The *Customer* is required to enter a workout name.
- See create workout Data Definition for more input data details.

Special Requirements

- N/A

Post-Conditions

- The created workout has been saved by the *system.*
- The workout is saved in the *Customers* Workout Planner.

Analyst Notes

- N/A

Login - Use Case

Goal

A user logs in to authenticate and determines their role (Customer or Admin.) in the system.

Pre-Conditions

- The user has already created an account.

Flow of Events

Basic Flow – A user attempts to log into the System.

1. This use case begins when a user first connects to the system.
2. The *system* displays the required authentication information (see login data definition).
3. The user enters their authentication information.
4. The *system* attempts to authenticate the entered user information.
5. The *system* determines the user's role (see Additional Detail below).
6. The Use Case Ends

Exception Flow #1 – User fails authentication

1. This flow begins when the user enters an invalid Email and/or password (reference Basic Flow Step 3)
2. The *system* describes the reasons why the User failed authentication.
3. The system prompts the user to enter valid information.
4. The Basic Flow continues where the user enters authentication information (see step 2 of the Basic Flow).

Additional Detail

- The user's role (Customer or Admin) is determined by checking the entered Email with the saved system information.

Special Requirements

- Security - SEC1 - The system must authenticate all users using a login ID and password.
- Security - SEC2 - The system must not grant authorized access to unauthorized users. If a user fails 3 consecutive attempts at accessing the system, the user will be locked out for 10 minutes.
- Scalability - SCA1 - The system must handle up to 1000 users at one time.

Post-Conditions

- The user has been successfully authenticated into the system.

Analyst Notes

- N/A

Redo Workout - Use Case

Goal

A *Customer* creates a new workout based on a previously completed workout.

Pre-Conditions

The *Customer* has completed a workout.

Flow of Events

Basic Flow – *Customer* selects to redo a previously completed workout.

1. This use case begins when the *Customer* tells the system to view a previously completed workout.
2. The *system* presents the *Customer* with the workout information from the completed workout.
3. The *Customer* enters a name for the new workout and submits the information.
4. The *system* stores the data as a new workout.
5. The Use Case ends.

Additional Detail

- The *Customer* is required to enter a workout name (see redo workout Data Definition)

Special Requirements

- N/A

Post-Conditions

- The *Customer's* workout has been saved by the system and is now present in the *Customer's* Workout Planner with matching data from the original workout.

Analyst Notes

- N/A

Search Exercises - Use Case

Goal

Customers search for a list of exercises based on their owned equipment and body type selections.

Pre-Conditions

- The *Customer* is authenticated into the *system.*

Flow of Events

Basic Flow – Customer filters exercises by body targets and searches for a list of exercises

1. This use case begins when a *Customer* attempts to create a workout.
2. The *system* presents the *Customer* with a selection of body targets.
3. The *Customer* selects one or more body target filters, then searches.
4. The *system* generates and displays a list of exercises from the saved exercises stored in the system (see Additional Details below).
5. The Use Case Ends

Additional Detail

- The list of exercises displayed by the system is determined by the *Customers* body target selection and saved equipment.
- If the *Customer* does not have any equipment set in their profile, the system will respond with body weight exercises in the search.
- The *Customer* is required to select at least one body target filter before searching.

Special Requirements

- Efficiency - EFF1 - The *system* must respond with a set of exercises in less than 1 second.
- Correctness - COR1 - The s*ystem* must respond with a set of exercises that match the user's criteria (age, weight, goal).
- Usability - USB1 - Each exercise must include a written description and visual aid.

Post-Conditions

- The *Customer* is presented with a list of exercises based on the search and profile criteria.

Analyst Notes

- N/A

Update Equipment - Use Case

Goal

Customers are able to add or remove their list of equipment.

Pre-Conditions

The *Customer* must be authenticated.

Flow of Events

Basic Flow – *Customer* selects to add available equipment.

1. This use case begins when the *Customer* attempts to update their equipment.
2. The *system* presents a list of all available equipment (Admin has controls to add more equipment to the system. See Admin Update Equipment use case).
3. The *system* presents the *Customer's* current list of owned equipment.
4. The *Customer* selects to either add or remove from their current owned list of equipment.
5. The *system* updates the *Customer's* owned equipment.
6. The Use Case ends.

Additional Detail

- See Update Equipment data definition for specific data details.

Special Requirements

- N/A

Post-Conditions

- The *Customer's* owned equipment has been saved by system.

Analyst Notes

- Include more info on how recommended exercise algorithm works/is saved for Additional Detail