USE CASE 1

Name
Create account

Description
Upon start-up the system prompts the user to login or create a new account. If the user does not have an account, they will click new account. The system will then prompt the user to enter their information necessary for the account to be setup(name, username, password, height, weight, age, etc.). The system checks to see all inputs are valid, if not, notify user to re-enter invalid fields, otherwise system accesses external system handling accounts and creates the new account with information given.

Actors
User
System
External database handling accounts

Basic Flow
1. System prompts user to login or create new account
2. User chooses to make a new account
3. The system asks the user for necessary information to create the account
4. The user enters all necessary information in the correct area and clicks submit
5. The system checks to see if all information is valid (unique username, password is sufficient, age > 0)
6. The system contacts external database with information of new user where the new account is created
7. The system allows the user to access their new account.

Alternate Flow for 2A:
1. If the user already has an account, they will just sign in

Alternate Flow for 5A:
1. If there is an invalid entry or entries, the system highlights the entries and prompts the user to change the information to make it valid. Jump to step 4.

Alternate flow for 7A:

1. If external database cannot be reached, send error to system manager and store information locally to be uploaded later.

Preconditions
The user must have the software downloaded and installed before this use case begins

Postconditions
After this use case ends all information entered into the system to create the account must be valid

USE CASE 2

Name
Synchronize the data

Description
Users of the application will import their activities from smart watches/devices

Actors
User, System

Basic flow
1. The user clicks on the "source" button.
2. The system will present the available import sources (smart watches/devices.) to user to choose.   (ALT 2)
3. The user chooses the import sources.
4. The system will let the user know it's connecting to the smart watches/devices.
5. The system will try to connect and synchronize data with the smart watches/devices
6. The system will indicate to the user that the connect is finished. (ALT 7)
7. The system will provide the user with diverse statistics (e.g. calories used, heart rate, average speed)

Alternate flow 2A
1. The system will ask the user to turn on the Bluetooth
2. The user will turn on the Bluetooth and the use case returns to step 2.

Alternate flow 2B
1. The system will let the user know that it did not find any smart watches/ devices nearby.

2. The user will double check his/her smart watches/devices.
3. The user will click on "reconnect" and the use case returns to step 2. / Or the user will click on "cancel" and the use case ends.

Alternative flow 7A
1. The system will indicate to the user that the error happened.
2. The user will click on "reconnect" and the use case returns to step 6.

Precondition
1. User has logged in already.
2. User must has a source (smart watches/devices) to import data.

Post-condition: All the information from the smart watches/devices will be showed in the application.

USE CASE 3

Name
 Display Run Statistics

Description
The user can view statistics about each run, which include kilometers ran, distance ran, calories burnt, pace of the run, as well as the incline of the run

Actors
User
System

Basic Flow
1. User is presented with a drop-down menu with various options about how to display data about runs
2. Application displays data using the format which the user selects
3. User selects to see the runs displayed in descending order of speed
4. Application displays the information for each run about kilometers ran, average speed of each run, heart rate, calories burnt, hydration level

Alternate Flows for 3A

1. User selects display runs in descending order of distance ran

Alternate Flows for 3B

1.User selects display runs in ascending order of newest run

Alternate Flows for 3C

1. User select display runs in descending order of oldest run

Alternate Flows for 3D

User selects display all runs

Preconditions

There should be data recorded for at least one run

Postconditions

System successfully displays the data according to which category the user chooses to display the statistics