

System and Unit Test Report
Run And Track
Running Man
07/23/19

System Tests:

Sprint 1:

- User Story 1: As a user, I want an interface that I can easily interact with.
- User Story 2: As a user, I want a custom profile so my calories calculated is accurate.
- User Story 3: As a runner, I want to keep track of how much time I spent per run

Scenario:

[I.] User Profile Functionality

1. Start 'Run and Track' App.
2. Should be able to see 'Profile', 'Run', and 'History' button.
3. Click 'Profile'
 - a. Edit text fields:
 - i. 'Name' : "John Doe"
 - ii. 'Age' : "23"
 - iii. 'Sex' : "Male" or "Female"
 - iv. 'Weight(kg)' : "75"
 - b. Click 'Home Page' button.
 - i. Should redirect to the main page.
 - ii. Everything is saved in local.
 - c. Click 'Profile' button again.
 - i. Should be able to see the data from Step 3a.

[II.] Timer Functionality

1. Start 'Run and Track' App.
2. Should be able to see 'Profile', 'Run', and 'History' button.
3. Click 'Run' button.
4. Should be able to see 'Cancel', 'Start', 'End' buttons.
 - a. Click 'Start'.
 - i. The timer should start.
 - ii. The 'Start' buttons would turn to 'Pause' button, Click that.
 1. Timer should stop.
 - iii. Click 'Start' button.
 1. Timer should start again from previous time.
 - b. Click 'Cancel'
 - i. Should reset the timer to 0 and redirect to the Home page.
5. Click the 'Run' button again
 - a. The timer will be reset, so the user can redo all the steps in Step 4a.

Sprint 2:

- User Story 1: As a runner, I want to keep track of how many kilometers I ran per run.
- User Story 2: As a runner, I want to track the average speed per run.
- User Story 3: As a runner, I want to track calories burned per run.
- User Story 4: As a runner, I want to have the option to either save my record or delete it.
- User Story 5: As a runner, I want to be able to see my history so I can see if I am improving.
- User Story 6: As a tester, I want to be able to simulate the functionalities of tracking time, distance, and average speed.
- User Story 7: As a user, I want to be able to upload a profile picture.

Scenario:

[I.] Distance, Calories and Average Speed Accuracy and Functionality

1. Start the 'Run and Track' App.
2. Should be able to see 'Profile', 'Run', and 'History' button.
3. Click the 'Run' button.
4. Should be able to see 'Cancel', 'Start', 'End' buttons.
 - a. Click 'Start'.
 - i. Start running!
 - ii. The GPS should start counting user's distance and average speed.
 - iii. The 'Start' buttons would turn to 'Pause' button, Click that.
 1. The distance and average speed should stop counting.
 - iv. Click the 'Start' button.
 1. The distance and average speed should continue counting based off from the previous values.
 - b. Click 'Cancel'.
 - i. Should stop the GPS, reset the distance and average speed to 0, and redirect to Home page.
5. Click on the 'Run' button again
 - a. Redo Step 4a
 - b. Click the 'End' button
 - i. Direct you to the 'Running Record' page
 - ii. You will be able to see the date, time, distance, and calories burnt for this current run

[II.] Save and Visualize Functionality

1. Redo [I] of Sprint 2
2. Once you are in the 'Running Record' Page, you will be able to see 'Cancel' and 'Save' buttons.

- a. Go to Step 3 or Step 4
- 3. Click on the 'Save' button.
 - a. Time, calories, date, and distance will be all saved in the database.
 - b. You will be directed to the 'History' Page.
 - i. You will be able to see your record listed and a 'Home' button on this page.
 - ii. Go to Step 5
- 4. Click on the 'Cancel' button.
 - a. Direct you back to the 'History' page.
- 5. Now you have two options: Step 4a or Step 4b. You can only do either one.
 - a. Click the 'Home' button.
 - i. Go back to the Home page.
 - b. Click on one of the records.
 - i. Direct you to the 'Running Record' page of that specific record.
- 6. Now you will see the 'Delete' (instead of the 'Save' button) or 'Cancel' button.
 - a. Go to Step 7 or Step 8
- 7. Click on the 'Delete' button
 - a. You will be able to delete the record that shows in this page from the database and the 'History' page.
- 8. Click on the 'Cancel' button
 - a. Direct you to the 'History' page.

[III.] Profile Picture Functionality

- 1. Start 'Run and Track' App.
- 2. Should be able to see 'Profile', 'Run', and 'History' button.
- 3. Click 'Profile'
 - a. Click 'Edit Profile Picture' button
 - i. Choose a Photo from your storage.
 - ii. Should redirect back to the profile page.
 - iii. Should be able to see your photo on the page.
 - b. Click the 'Home Page' button.
 - i. Should redirect to the main page.
 - ii. The photo you set as your profile picture will be saved in the local.
 - c. Click the 'Profile' button again.
 - i. Should be able to see the data from Step 3a.

Sprint 3:

- User Story 1: As a runner, I want to know where I am running so I can keep track of the location.
- User Story 2: As a runner, I want to create a record of my running route.
- User Story 3: As a runner, I want to save a record of my running route so I can revisit it later on in the future.
- User Story 4: As a tester, I need access to the internal database state so that I can determine if the product works properly.

Scenario:

[I.] Google Map and Location Functionality

1. Start the 'Run and Track' App
2. Click the 'Run' button
 - a. You should be able to see a map with your current location.
 - b. You need to zoom in to the current location yourself. Click on the button at the top right corner of the map. (Optional)
 - c. The current location will update whenever you move
3. Click the 'Start' button.
 - a. As you begin to run, the map should zoom to your location automatically.
 - b. It will continue to update as you run.
 - c. The azure marker is your current location
4. Click the 'End' Button
 - a. The map should be loaded into the Running Record page.
 - b. The end location should be where you currently are.