

Test plan and report

Thru-Hiker

6/3/2024

System Test Scenarios:

User Story - 1.1

As a user, I want to be able to select a thru-hike and set a time goal from an explore page so that I can plan my hike accordingly.

1. Scenario: Exploring routes
 - a. Open application, first view will be the explore page view. User should see a scrollable list of routes, and clicking “Start Route” will allow the user to select a route

Test Passed

User Story - 1.2

As a user, I want to see a map of my progress on the selected route so that I know how much of the trail I have completed. 5 points

Low Priority - User Story - 1.3

As a user, I want an interface to view statistics such as how far I've walked in however long I've been walking the route. 3 points

2. Scenario: View route progress
 - a. Navigate to route progress page by selecting “Start Route”
 - b. Users should see a map with a trail line corresponding to the selected route, a blue marker indicating their position on the trail, and a progress bar along the left side of the screen.

Test Passed

User Story 2.3 [3 points]

As a user, I want to save logs of my in-progress and completed hikes so that I can review my achievements and share them with others.

3. Scenario: Log completed hikes
 - a. Navigate to “Completed Hikes” through tabs at bottom of screen
 - b. User should observe routes appear as hikes are completed

Test Passed

User Story 2.1 [8 points]

As a user, I want to receive the most up to date statistics and information on the app.

4. Scenario: View progress statistics

- a. Navigate to in-progress route map by selecting “View Progress” on a route

User Story 2.2 [5 points]

As a user, I want to receive images of landmarks or points of interest I've passed through my hike.

1. Scenario: View images for different routes:
 - a. Start a route and click the image icon at the bottom.
 - b. Verify that it matches with where you are on the map.
 - c. Start a different route and verify that the images on each map are different.

Test Passed

User Story 4.3

As a user, I want to compete with friends and people around the world to motivate each other.

2. Scenario: Update leaderboard with progress:
 - a. View progress of route
 - b. Open leaderboard and verify the statistics match what's in route
3. Scenario: View others progress:
 - a. View progress of route
 - b. Open leaderboard on different device and verify the statistics match what's in route on main device

Test Passed

Unit Tests:

User Story 1.1 [3 points]

As a user, I want to be able to select a thru-hike and set a time goal from an explore page so that I can plan my hike accordingly.

1. Navigate to explore page
2. Select “Start Route”
3. Hard code specific daily health data and verify the final expected date changes respectively.

User Story 2.3 [3 points]

As a user, I want to save logs of my in-progress and completed hikes so that I can review my achievements and share them with others.

1. Manually entered values for HealthKit and route state variables to observe routes moving from explore page -> in progress page -> completed page.

- a. i.e toggling *completed* = true or *milesWalked* = 225/225, expect route to change state

User Story 2.2 [5 points]

As a user, I want to receive images of landmarks or points of interest I've passed through my hike.

4. Unit Test: View images for different points in route:
 - a. Start a route and click the image icon at the bottom.
 - b. Verify that it matches with where you are on the map.
 - c. Hard code a different number of mileage completed and verify the images change

Test Passed

User Story 3.2 [5 points]

As a user, I want to save logs of my in-progress and completed hikes so that I can review my achievements and share them with others.

Scenario 1: Save logs and review achievements

1. Open the app
2. Select any trail from the explore category or in progress
3. Hard code miles completed to be more than trail length
4. The trail is automatically logged in completed routes with new metrics

Test Passed

User Story 3.3 [3 points]

As a user, I want to see more visuals and metrics for the progress I am making.

1. Start a new route.
2. Verify that the progress bar shows no progress.
3. Hard code value of mileage and verify that progress bar visually reflects this value.

Test Passed