Take-A-Hike!   
Unit Test Documentation

By Charlie Whelden, Jordane Lawrence, Wesley Ollinger, Brady Winter, Kyle Hartfield

May 2017

Table of Contents

Introduction......................................................................................................................3

Constraints......................................................................................................................3

Test Environment & Tools...............................................................................................3

Approach.........................................................................................................................3

Roles...............................................................................................................................3

Schedule.........................................................................................................................3

References......................................................................................................................3

Test Case ID TC001 “Navigate to Home Page” .............................................................4

Test Case ID TC002 “Navigate to Info Page” ………......................................................4

Test Case ID TC004 “Navigate to Trial Page”.................................................................4

Test Case ID TC005 “Navigate to Start a hike Page”.....................................................4

Test Case ID TC006 “Hike 1”..........................................................................................5

Test Case ID TC007 “Hike 2” .........................................................................................5

Test Case ID TC008 “Hike 3” .........................................................................................5

Test Case ID TC009 “Add Observation” ........................................................................5

Test Case ID TC010 “No name” ....................................................................................6

Test Case ID TC011 “No Number” ................................................................................6

Test Case ID TC012 “Breakout!” ...................................................................................6

Introduction

The purpose of testing this mobile application is to make sure it is working properly before presenting it for our senior project. The goal is to make it so that the app is error free so that nobody dies in the woods because of us.

Constraints  
The members of our team don’t have a means of transportation to actually test the app in Shenandoah park. The app only works with version 23 or under of Android.

Test Items & Environment

The phones we are using to run and test the app are two Motorola Android smartphones (phone version: 5.1 Marshmallow; app version: 2).   
Found bugs are communicated to the developers via email.

Approach

The type of testing to be used is manual black box testing. Black

box testing is used to test the input/output behavior of each test case.

Roles

Charlie Whelden is responsible for writing up everything in this document: (Introduction, Constraints, Test Items & Environment, Approach, Roles, Schedule, References and Test Cases).

Schedule

May 01, 2017: Test document is accurate and finished.   
May 07, 2017: App is ready to present for senior project.

Test Cases

***Test Case ID 001 “Start Screen”***

**Summary:** Verify that app compiles and starts.

**Prerequisite:** The application is not loaded in memory.

**Instructions:** Perform the following actions.

1. Click on the app icon on the phone’s application screen.

**RESULT:** The app’s main page should come up.

***Test Case 002 “Info Page”***

**Summary:** Ensure that the Menu, which is the main way of navigating the app, allows you to navigate to the info page, and that the info page loads successfully.

**Prerequisite:** The app is open.

**Instructions:** Perform the following actions.   
1. Click the menu.

2. Select Info  
**RESULT:** When you click on a menu button, the header of the loaded screen should match the menu option you clicked.   
  
**Test Case 003 “Navigate to Home Page”**1. Click the menu.

2. Select Home page  
**RESULT:** When you click on a menu button, the header of the loaded screen should match the menu option you clicked.  **Test Case 004 “Navigate to info Page”**1. Click the menu.

2. Select info page  
**RESULT:** When you click on a menu button, the header of the loaded screen should match the menu option you clicked.  **Test Case 005 “Navigate to Start a hike page”**

1. Click the menu.

2. Select Start a hike.   
**RESULT:** When you click on a menu button, the header of the loaded screen should match the menu option you clicked.

**Test case 006 “Navigate to Hiking Trails”**1**.** Click the menu.  
2. Navigate to “Hiking Trails.”

**RESULT: APP The header should say, “Hiking Trails,” and 14 Trails should appear.**

**Test case 007 “Hike trail”**1**.** Click the menu.  
2. Navigate to “Start-a-hike.”

3. Cycle through   
4. Enter the name \*\*@!!238238  
5. Enter the number 17036355369  
6. Press start a hike.

**RESULT: APP should open screen that says hike\_started. Selected contact should receive text from the app.**

**Test Case 009 “No name”**

1**.** Click the menu.  
2. Navigate to “Start-a-hike.”

3. Select trail 3.  
4. Press the green check, entering nothing in the “name” spot.  
5. Enter the number 17036355369  
**RESULT: Start a hike should not appear.   
  
Test Case 010 “No Number”**1**.** Click the menu.  
2. Navigate to “Start-a-Hike.”

3. Select trail 3.  
4. Press the green check, entering nothing in the “name” spot.  
5. Enter the number 17036355369  
**RESULT: Start a hike button should not appear.   
  
  
Test Case 011 “Breakout!”**1**.** Click the menu.  
2. Navigate to “Start-a-Hike.”

3. Select a trail.  
4. Enter “foobar” in the name slot.   
5. Enter the number 17036355369  
6. When the start a hike page appears, press all buttons besides “end a hike,” and try to get out.  
**RESULT: The hike page should remain up until you press “end a hike.”**