

Group Project 14

Test Specification

Author: Daniel Wakefield
Config. Ref.: GP14-TEST-SPEC
Date: 2013-11-13
Version: 1.5
Status: Release

Department of Computer Science,
Aberystwyth University,
Aberystwyth,
Ceredigion, SY23 3DB,
U.K.

©Aberystwyth University 2014

CONTENTS

1 INTRODUCTION	2
1.1 Purpose of this Document	2
1.2 Scope	2
1.3 Objectives	2
2 TEST TABLE	3
DOCUMENT HISTORY	6

1 INTRODUCTION

1.1 Purpose of this Document

The purpose of this document is to provide robust and repeatable system tests. They will be run in each version of the program to ensure that adequate functionality remains as the software is updated. Provide a outline to group leaders so they can estimate resources and effort required for each test run.

1.2 Scope

This document covers the testing plan for the system. The tests cover all relevant functional requirements. QA Managers and Group leaders should be up to date with this specification as they will be required to sign off on all version changes to the system.

1.3 Objectives

The objectives of this document are to :

1. Provide Robust and repeatable system tests.
2. Provide tests for all verifiable functional requirements
3. Ensure all areas of the system work when intergrated
4. Provide Leaders with estimates for resources and effort required for tests

2 TEST TABLE

Test Ref	Req being tested	Test Content	Inputs	Output	Pass Criteria
SE-F-001	FR1	Pressing "Start Walk" button on main screen.	Button Press Event	New activity will be opened	Should Open a new application screen prompting the user for the walk details.
SE-F-002	FR2	Data entry of null walk name on Walk Detail Screen	""	Prompt telling user of invalid entry	Walk Fails to Start with appropriate error message
SE-F-003	FR2	Data entry of long walk name on Walk Detail Screen	"Data Entry"	Error message prompting user not to enter a space	Walk fails to start with appropriate error message
SE-F-004	FR2	Data entry of normal walk name on walk detail screen	"AberWalk"	input box to be complete with data	Walk can be started with this name
SE-F-005	FR2	Data entry of 100 character Description in Short Description Box	Enter letter "a" 100 times	input box to be complete with data	Walk can be started with this Description
SE-F-006	FR2	Data entry of 101 Character Description in Short Description Box	Enter letter "a" 101 times	Error Message prompting user not to exceed 101 character limit	Walk Fails to Start with appropriate error message
SE-F-007	FR2	Data entry of 1000 Character Description in Long Description Box	Enter letter "a" 1000 times	input box to be complete with data	Walk can be started with this Description
SE-F-008	FR2	Data Entry of 1001 Character Description in Long Description Box	Enter letter "a" 1001 times	Error Message prompting user not to exceed 101 character limit	Walk Fails to Start with appropriate error message

Test Ref	Req being tested	Test Content	Inputs	Output	Pass Criteria
SE-F-009	FR2	Data entry of Single Word in Keyword box	Data entry	new Activity screen will show and continue as expected	Walk can be started successfully with this keyword
SE-F-010	FR2	Data entry of Multiple Words in Keyword box	Data entry	Prompt telling user of invalid entry, Activity will continue as expected	Walk Fails to Start with appropriate error message
SE-F-011	FR3	Press add points of interest Button on the Walk Screen	Button Press Event	New activity while selecting point of interest then returns to previous activity	points of interest entry screen appears with the current GPS Co-ords displayed
SE-F-012	FR4	Press "Add Picture" Button on Add Waypoint Details Screen	Button Press Event	System Pop-up	System camera options appear on the screen
SE-F-013	FR5	Press "Cancel Walk" Button on Walk Screen	Button Press Event	Main Screen	Walk Ends and returns to Main Screen
SE-F-014	FR6	Press "Upload Walk" button on Main Screen with internet connection	Saved Example walk	Database Entry	Database entry and uploaded walk match in all details
SE-F-015	FR7	Rotate the phone on each individual screen	Physical interaction with phone	Different Screen orientation	Different Screen orientation with the same data before screen rotation
SE-F-016	FR1	Each activity has to be complete before user is allowed to continue	finishing current activity?	Next activity screen	For next activity screen to show when information as been added in current section
SE-F-017	FR1	On button press, GPS has to be enabled	Create New Route button will enable GPS	Activity will go to next screen	Walk details activity screen will show

Test Ref	Req being tested	Test Content	Inputs	Output	Pass Criteria
SE-F-018	FR6	Loss of GPS while app is running	switch off phone's data connection during upload	Error message prompting user to turn on GPS	Upload is stopped and user is offered the option to restart
SE-F-018	FR9	Passing Data from end activity into website to be shown	Button touch	Transmission of data	For data from android phone to be sent to web application
SE-F-019	FR4	No point of interests set	No input of points of interest	The walk should create error message	The walk should not upload if no point of interest has been set
SE-F-020	FR2	Adding correct information in Name and long description, but leaving short description empty	"" on short description	The walk should create error message	Error message keeps user from continuing
SE-F-021	FR6	Uploading walk without an internet connection	Press upload button	The walk should create an error message and continue the walk	Error message keeps user from continuing
SE-F-022	FR6	Uploading walk without an internet connection	Press upload button multiple times	The walk should create an error message and continue the walk	Error message keeps user from continuing
SE-F-023	FR6	Uploading walk without an internet connection	Press upload button multiple times	The walk should create an error message and continue the walk	Error message keeps user from continuing
SE-F-024	FR7	Rotate the phone while there is a dialog box on screen	Physical interaction with phone	Different Screen orientation	Different Screen orientation with the same data before screen rotation
SE-F-025	FR7	Rotate the phone while there is an error box on screen	Physical interaction with phone	Different Screen orientation	Different Screen orientation with the same data before screen rotation

Test Ref	Req being tested	Test Content	Inputs	Output	Pass Criteria
SE-W-001	FR9	Accepts Uploaded walks	Example Walk Uploaded	Database Entry	Database Entry with the correct Details and returns appropriate message
SE-W-002	FR8	A Walk can be selected	Click on a walk on the home-page	New page showing data for selected walk	When a walk is selected its general walk details display next to the map and its waypoints are displayed on the map
SE-W-003	FR8	Points of interest are correctly displayed	Click on push pin on map	speech bubble showing data	When Selecting a waypoint Timestamp, Co-ords, Details and pictures are displayed correctly

DOCUMENT HISTORY

Version	CCF No.	Date	Changes made to Document	Changed by
1.0	N/A	2013-11-13	Initial creation	daw46
1.1	N/A	2013-11-15	Updated Test Inputs	daw46
1.2	N/A	2013-11-15	Changed status to release and bolded header of table	lah25
1.3	N/A	2014-01-28	Added more test place to reflect upon program	tht5
1.4	N/A	2014-01-30	Added another test and changed the FR that 2 tests applied too	meo9
1.5	N/A	2014-01-30	Added more tests, especially to accomodate FR7	lah25