ST1 App System Tests

Outlined in the table below are the system tests for the functional requirements relating to the app. These tests will be carried out by a testing team and the results (pass/fail, necessary actions and applicable retests) will be noted down.

Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria
ST1.1	FR1	Checks that software is able to open correctly and doesn't crash	User selects the application from their phone	Software opens and shows login screen	Software opens correctly and shows the login screen
ST1.2	FR1	Checks user is able to create a new walking tour	User clicks 'Start Tour'	New page should open prompting user to enter details about walk	Software creates a new walking tour and prompts user to enter details
ST1.3	FR1	Checks user is able to login	Users enter valid email and password and the clicks 'Login'	Menu screen opens when username and password is submitted	Login successful and menu screen opens
ST1.4	FR1	Checks for error message if login is not valid	Users enters invalid email or password and the clicks 'Login'	Error message appears telling user that their email or password is incorrect	Error message appears
ST1.5	FR1	Checks for error message if email is not entered	User selects login with no email address	Error message appears telling user to enter email address	Error message appears
ST1.6	FR1	Checks for error message is password is not entered	User selects login with no password	Error message appears telling user to enter password	Error message appears
ST1.7	FR1	Checks for error message if email and password is not entered	User selects login with no email or password	Error message appears telling user to enter email and password	Error message appears
ST1.8	FR1	Checks register screen opens when register button is pressed	User clicks 'Register'	Register page opens when button is clicked	Register page opens
ST1.9	FR1	Checks user is able to register	User enters valid email address and passwords and clicks 'Register'	Menu screen opens when register is clicked	Registration successful and menu screen opens
ST1.10	FR1	Checks for error message if no email is entered	User selects register with no email address	Error message appears telling user to enter email address	Error message appears

ST1.11	FR1	Checks for error message if no password is entered	User selects register with no password	Error message appears telling user to enter password	Error message appears
ST1.12	FR1	Checks for error message if passwords to do not match	User selects register without matching passwords	Error message appears telling user that the passwords they have entered do not match	Error message appears
ST1.13	FR1	Checks for error message if no fields are entered	User selects register with no email address or passwords entered	Error message appears telling user to enter email address and password	Error message appears
ST1.14	FR1	Checks if user can go back to login screen from register screen	User presses back button on register screen	Back button pressed and user is taken back to login screen	User is taken back to login screen
ST1.15	FR2	Checks user is able to start tour	User selects start tour	Start tour is pressed and user is taken to page to enter details about walk	New page opens where the user enters details about the walk
ST1.16	FR2	Checks user is able to start tour when all information is entered	User enters valid information about the walk and selects start tour	Information is submitted and walk starts	Walking tour starts
ST1.17	FR2	Checks for error message if name of tour is not added	User selects start tour without entering name of walk	An error message will appear telling user they have to add a name for the tour	Error message displays correctly
ST1.18	FR2	Checks for error message if short description is not added	User selects start tour without entering short description	An error message will appear telling user to add short description of walk	Error message displays correctly
ST1.19	FR2	Checks for error message if long description is not added	User selects start tour without entering long description	An error message will appear telling user to add a long description for the walk	Error message displays correctly
ST1.20	FR2	Checks to see if text stops getting typed when it reaches 99 characters for short description	String of text above 99 characters	Text appears as it is being typed until character limit is reached	Text stops being typed when character limit is reached
ST1.21	FR2	Checks to see if text stops getting typed when it reaches 1000 characters for long description	String of text above 1000 characters	Text appears as it is being typed until character limit is reached	Text stops being typed when character limit is reached
ST1.22	FR3	Checks user is able to add now location	User selects 'Waypoint'	User is taken to Waypoint screen where user can enter details about walk	Waypoint screen opens

ST1.23	FR3	Checks user is able to add waypoint when all information is entered	User enters valid information and selects add waypoint	Message appears telling user that waypoint has been added	Message appears
ST1.24	FR3	Checks if error message appears if user doesn't enter name of location	User selects 'add waypoint' without entering name of location	An error message appears telling user they have to enter a name for the location	Error message displays correctly
ST1.25	FR3	Checks if error message appears if user doesn't enter description of location	User selects 'add waypoint' without entering description of location	An error message appears telling user to enter a description of the walk	Error message displays correctly
ST1.26	FR4	Checks user is able to choose how to add a photo at a waypoint	User selects 'add photo'	User taken to new page where they can choose to capture new image or load image from gallery	New page opens
ST1.27	FR4	Checks camera opens when capture new image is selected	User selects 'capture new image'	Camera opens and functions correctly	Camera opens from within the app
ST1.28	FR4	Checks user is able to capture a picture from within the app	Users captures new image	Camera open and users is able to capture an image	Camera opens correctly and image is captured correctly
ST1.29	FR4	Checks if user is able to open gallery	User selects 'load image from gallery'	Gallery opens and user is able to select picture from gallery	Gallery opens correctly
ST1.30	FR4	Checks if user is able to select photo from library	User selects image from gallery	User selects photo from library and image is added to database	Image can be selected from library and added to database
ST1.31	FR5	Checks user is able to cancel a walk	User selects 'Cancel walk'	Warning message appears ensuring user wants to cancel walk	Warning message appears
ST1.32	FR5	Checks if warning message appears when user decides to cancel walk	User agrees to cancel walk	Walk stops recording and all data recorded is deleted	Walk is cancelled and all data deleted
ST1.33	FR5	Checks if warning message appears but user decides not to cancel walk	User decides not to cancel walk	Walk continues recording and all data remains the same	Walk continues recording without description
ST1.34		Checks user is able to access options screen	User swipes from right	Options page opens and user is now able to select different options	Options page opens correctly
ST1.35		Checks user is able to report fault	User selects report fault from options menu	New page opens where user can report a fault	New page opens
ST1.36		Checks user is able to open help guide	User selects report fault from	New page opens with a help	Help guide page opens

			options menu	guide	
ST1.37		Checks user is able to logout	User selects logout from options menu	User selects logout and warning message appears	Warning message appears
ST1.38		Checks warning message appears when user decides to logout	User agrees to logout	Logout is successful and user is shown the login screen	Logout successful and login screen is opened
ST1.39		Checks warning message appears but user decides not to logout	User decides not to logout	User is taken back to options page	Logout unsuccessful and taken back to options screen
ST1.40	FR9	Checks user is able to successfully submit a walking tour.	User presses the "save tour" button on the app interface.	User should receive a message from the server with either a confirmation of success or failure.	The user receives a success message from the server.

ST2 Web Interface System Tests

In the table below are system tests for the web interface functional requirements. These tests will be carried out by the testing team and the results (pass/fail, actions necessary and applicable retests) will be noted down.

Test Ref	Req Being Tested	Test Content	Input	Output	Pass Criteria
ST2.1	FR8	Checks user is able to search for tours	Input search term "Aberystwyth" into search box.	Web interface will display links to all tours containing information that matches the keyword "Aberystwyth"	Only relevant tours are shown. Any tours that contain no information that matches the term "Aberystwyth" will be considered a failed test.
ST2.2		Checks that the user is able to select and view a tour.	Select first tour in list after searching "Aberystwyth"	The relevant tour information is displayed, showing the tour name, description and all of the	The same tour that was clicked on is displayed, with all of the correct information. This tour

				tour waypoints are displayed on the map.	should have been submitted by the testing team in test ST1.40 to ensure that it was performed correctly.
ST2.3		Checks that a user can select a waypoint and view the information about that waypoint.	Select first waypoint on map.	Information about that waypoint should be loaded onto the screen and made visible.	The correct information about the waypoint should be displayed. If no information is displayed, or it is the wrong information, then it is a failed test.
ST2.4		Check that waypoints are at the correct map coordinates.	Select a tour and view the map of waypoints.	Each waypoint should be pinned in the correct location on the map.	If the waypoints are at the wrong coordinates compared to where they were submitted from, then the test fails.
ST2.5		Check that images are displayed correctly.	Select a tour and then a waypoint, and view the images of that waypoint.	The images uploaded with the waypoint should be displayed correctly.	If the correct images are displayed, and display as they are defined in the design specification, then the test passes.