

Group 16

Test Specification

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1 Introduction

1.1 Purpose of this document

This document describes the test specifications for the project, which will be used when the first compiled version of the software is ready.

1.2 Scope

This document gives a detailed description of all test procedures, with instructions and pass criteria. This document should be read by all team members involved in coding.

1.3 Objectives

Coders are able to perform the tests performed.

2 Test Procedures

2.1 Preface

These tests are derived from the requirement specification [?] for this project. Each test has a reference to the specific requirement being tested and a test reference. The test reference indicate which part of system is being tested, with 'AND' meaning Android application and 'WEB' meaning the webpage.

2.2 Procedures

Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria
WEB-1	FR2	Check record has been stored in the database	Creates record on website and adds it to database	No error messages are shown and record is now present in database	The record is stored correctly in the database
WEB-2	FR9	Check the record has been retrieved from the database	Access list of records page and click on single record	Record is sent by database and user is taken to web page displaying the data	The record appears on the web page correctly
WEB-3	FR4	Check image is the correct file type	Input image of accepted type (e.g. .jpg or .png)	User does not receive error message and photo is accepted	Image uploaded correctly
WEB-4	FR4	Check image is not the correct file type	Input image of non-accepted type (e.g. .gif)	User receives error message and photo is denied	Image not uploaded
WEB-5	FR4	Check if the GPS location is in the correct format	Input location information in correct format	User does not receive error message and GPS is accepted	The location GPS is stored correctly
WEB-6	FR4	Check if the GPS input isn't in the correct format	Input location information in improper format	User receives error message and GPS is denied	The location GPS is not stored
WEB-7	FR4	Check if the date/time is in the correct format	Input date/time in incorrect format	User does not receive error message and date/time is accepted	The date/time is stored correctly
WEB-8	FR4	Check if the date/time isn't in the correct format	Input date/time in incorrect format	User does receive error message and date/time is denied	The date/time is not stored
WEB-9	FR4	Check the species list has been updated	Request species list	Most up-to-date species list is returned	Species list is up-to-date.
WEB-10	FR4	Check the species has been stored	Input new species then request species list	New Species is stored in Species list returned from database	Species is stored in the database correctly
WEB-11	FR2	Check if name is correct format	User enters strings of valid characters in each of the name fields (e.g. "John" and "Smith")	User does not receive error message and name is accepted	Name is stored correctly
Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria

Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria
WEB-12	FR2	Check if name isn't in correct format	User enters strings of invalid characters in each of the name fields (e.g. "@-!")	User does receive error message and name is denied	Name isn't stored
WEB-13	FR2	Check if phone number is correct format	User enters any 11 base 10 digits	User does not receive error message and phone number is accepted	Phone number is stored correctly
WEB-14	FR2	Check if phone number isn't correct format	User enters anything other than 11 base 10 digits (e.g. "abcde-fghijk")	User does receive error message and phone number is denied	Phone number is not stored
WEB-15	FR2	Check E-mail is correct format	User enters a sequence of characters in email address format (e.g. "john.smith@genericemail.com")	User does not receive error message and E-mail is accepted	E-mail is stored correctly
WEB-16	FR2	Check E-mail is correct format	User enters any sequence of characters that isn't in email address format (e.g. "notanemailatall.com")	User does receive error message and E-mail is denied	E-mail is stored correctly
WEB-17	FR5	Check record has been deleted	Input delete record request	Record is deleted from database.	Record is no longer present in database.
WEB-18	FR5	Check multiple records have been deleted	Input delete record request	Multiple records are deleted from the database.	Records are no longer present in database.
WEB-19	FR5	Check species records have been deleted	Input delete record request	Species records are deleted from the database.	Species records are no longer present in database.
WEB-20	FR8	All pages load correctly (format, colours, images etc.)	Load the pages	View the pages	Loads without failure
WEB-21	FR8	All links work on all pages	Navigating the website	New page loads	All links, including header and footer info loads correctly
WEB-22	FR8	Ensure browser compatibility	Load the site on all common browsers	The loaded page	The site loads correctly on all common browsers
Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria

Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria
WEB-23	FR8	Ensure OS compatibility	Load the site on various OS	The loaded page	The site loads correctly on at least the most commonly used OS
WEB-24	FR8	Ensure screen size compatibility (Including mobile)	Load the site with different resolutions	The loaded page	It remains easily viewable/navigatable
WEB-25	FR8	Ensure acceptable load times	Record the load times on different browsers/OS	The time recorded	Average load time is under 2 seconds (Googles recommended)
WEB-26	FR8	Alternate text on all images	Stop image loading/hover over images	Text in place of image/pop-up box with text	All images have relevant information
WEB-27	FR8	Test error pages	Enter an incorrect URL	An error page	The intended error page is loaded
WEB-28	FR8	Load/Stress testing	Overload the site (multiple access, inputs etc.)	The loaded site	The site loads sufficiently quickly
AND-1	FR1	Start-up within 5 seconds	Open application	Overview Screen is displayed.	Application opens within 5 seconds and displays appropriate screen correctly
AND-2	FR1	Start new recording	'New recording' button pressed	User is taken to screen asking them to input user details.	User is take to appropriate screen
AND-3	FR1	Once a record is complete the user is taken to the overview	'DONE' button is pressed and the record is saved	User is taken to the overview screen	User is take to appropriate screen
AND-4	FR1	Once a record is complete the user is taken to the overview	'DONE' button is pressed and user is asked if they want to send the recording	User is taken to the overview screen	User is take to appropriate screen
AND-5	FR1	User chooses a site	User presses a site name in the list	Site Name is added to the record and Selection is displayed between the next and back button	User site selection is displayed between Back and Next button
AND-6	FR3	User selects a plant	User presses a plant name in the list	Plant is added to the record and plant name is displayed in a text field between back and next button.	Plant name is displayed in a text field between back and next button.
Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria

Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria
AND-7	FR3	User adds new plant	User presses '+' button in Plant list view	User is shown an overlay containing text fields for the Latin and common names, a cancel button and a submit button is are visible choices	User is shown the add new plant page correctly
AND-8	FR3	User doesn't know all details about a plant not in the list	User enters any text into either plant name text field, writes a comment or takes a photo and submits	User is prompted to confirm the details are complete	Prompt is displayed
AND-9	FR3	User adds photo of plant from gallery	User presses 'add photo' button and selects 'From Gallery'	Phone gallery is displayed and the user may select one of the photos	User is able to select photo from gallery
AND-10	FR3	User adds photo of plant from camera	User presses 'add photo' button and selects 'From Camera'	Phone Camera is opened	User is able to take photo with camera
AND-11	FR4	Photo is added to record	Take a photo for either option	Picture is shown	The picture should be added to the record and displayed as such
AND-12	FR2	User data screen – Fullname field	User enters strings of valid characters: John Smith, all other fields contain valid values to prevent invalid prompts	User is taken to choose site screen	User is take to appropriate screen and the next button will not issue a warning.
Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria

Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria
AND-13	FR2	User data screen – Fullname field	User enters strings of invalid characters in name field:@-6, all other fields contain valid values to prevent invalid prompts	The user is told their input is in an invalid format and kept on that screen	The user is kept on the user details screen
AND-14	FR2	User data screen – phone number field	User enters a 11 base 10 digits number: 7969044669, all other fields contain valid values	User is taken to site selection screen	User is take to appropriate screen and the next button will not issue a warning.
AND-15	FR2	User data screen – phone number field	User enters anything other than 11 base 10 digits (e.g. "abcde-fghijk"), all other fields contain valid values	The user is told their input is in an invalid format and kept on that screen	The user is kept on the login screen
AND-16	FR2	User data screen – email field	User enters a sequence of characters in email address format (e.g. "john.smith@genericemail.com"), all other fields contain valid values	User is taken to site selection screen	User is take to appropriate screen and the next button will not issue a warning.
AND-17	FR2	User data screen – email field	User enters any sequence of characters that isn't in email address format (e.g. "notanemailatall.com"), all other fields contain valid values	The user is told their input is in an invalid format and kept on that screen	The user is kept on the login screen
AND-18	FR2	User data screen details remembered	Start application	User details input page with filled fields displayed	User details input page is displayed correctly
Test Ref Aberystwyth	Req being tested University /	Test Content Computer Science	Input	Output	Pass Criteria Page 7 of 8

3 Document History

Version	CCF No.	Date	Changes	Changed By
0.1	N/A	08.11.2014	Original draft	FRF1
1.0	N/A	11.11.2014	Release	FRF1
1.1	N/A	?	Update/Overhaul. No idea on date, document history filled in by STA17	Bill Gordon
1.2	N/A	10.02.2015	Updates to Android Tests	STA17