Group Project Reserve Plant Species

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Test Specification Group 10

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1 Introduction

In this document we discuss the tests that we are going to implement so that we can be sure that we are going to catch as many errors as we can during the development process.

1.1 Scope

The scope of this document is to show what tests we will be employing for different parts of the project and how each part will be tested differently to others.

1.2 Objectives

Our main objectives with this document are as follows:

- 1.1.1 Java Tests
- 1.1.2 Web Tests

2 Java Tests

-	Tool	Took Contact	I.e. and	0.4	Dans Cuitaria
Test ID	Test Requirement	Test Content	Input	Output	Pass Criteria
JT1	FR1	Check that the software starts first time without errors on an Android device.	Application will be opened on test device.	Modal window prompting for contact details.	The application should have launched without crashing.
JT2	FR1	Check that the software starts second time with intended behaviour on an Android device.	Application will be opened on test device after previously having its user details set.	Prompt user to start a new recording.	The user should be able to start a new recording from app start without entering their details a second time.
JT3	FR1	Check that the software allows to record at a different site once a recording has ended.	A recording will be started, test items entered, then ended. This will be repeated two more times without closing the app.	App should end a recording then prompt user for a new one.	App should have taken and stored three separate recordings.
JT4	FR1 / FR2	Check that the user will be prompted for contact details at first boot up.	Application will be opened for the first time and a new recording will be started.	Modal window prompting for contact details.	The user should be prompted to fill in contact details.
JT5	FR2	Check that the user is able to select a natural reserve for the visit.	Start a new recording and identify the site by starting typing its name.	Drop down menu showing suggestions of the natural reserve.	Suggestions shown are relevant to what the user has started typing.
JT6	FR3	Check that the user is able to select a species or provide a name if it's not available.	When adding a new species the user will start typing its name into the species text field.	Drop down menu showing suggestions of species.	Suggestions shown are relevant to what the user has started typing.
JT7	FR4	Check that the GPS coordinates are obtained correctly from the Android OS.	Record a new species and touch the "Obtain GPS coordinates" button.	GPS coordinates are shown on the details of the newly recorded species.	GPS coordinates are the same as GPS coordinates recorded in parallel to this test.
JT8	FR4	Check that the radio buttons for the abundance store the correct data.	Record a new species and select a radio button "DAFOR".	The selected radio button gets selected (filled in).	The selected abundance is stored correctly in the species record

FR4 FR4	Check that the user is able to add a free text comment. Check that the user is able to add a photo from the phones gallery for the general scene. Check that the user is able to shoot a new photo using the phones camera for the general	Record a new species and add a little text comment in the comment text field. Record a new species, touch the "Add photo" button, select "From gallery" in the modal window that appears and select a photo from the phones gallery. Record a new species, touch the "Add photo" button, select	The written text is shown in the comment text field. A thumbnail of the selected photo is shown next to the "Add photo" button. A thumbnail of the new photo is shown in the	(shown in the summary view). The written text is stored correctly in the species record (shown in the summary view). A copy of the photo is stored correctly in the species record (shown in the summary view). A copy of the new photo is stored
FR4	is able to add a free text comment. Check that the user is able to add a photo from the phones gallery for the general scene. Check that the user is able to shoot a new photo using the phones camera	species and add a little text comment in the comment text field. Record a new species, touch the "Add photo" button, select "From gallery" in the modal window that appears and select a photo from the phones gallery. Record a new species, touch the "Add photo"	text is shown in the comment text field. A thumbnail of the selected photo is shown next to the "Add photo" button. A thumbnail of the new photo	The written text is stored correctly in the species record (shown in the summary view). A copy of the photo is stored correctly in the species record (shown in the summary view). A copy of the new photo is stored
	is able to add a photo from the phones gallery for the general scene. Check that the user is able to shoot a new photo using the phones camera	species, touch the "Add photo" button, select "From gallery" in the modal window that appears and select a photo from the phones gallery. Record a new species, touch the "Add photo"	the selected photo is shown next to the "Add photo" button. A thumbnail of the new photo	photo is stored correctly in the species record (shown in the summary view). A copy of the new photo is stored
FR4	is able to shoot a new photo using the phones camera	species, touch the "Add photo"	the new photo	photo is stored
	scene.	"Shoot photo" in the modal window that appears and shoot a photo with the phones camera app.	general scene section.	correctly in the species record (shown in the summary view).
FR4	Check that the user is able to add a photo from the phones gallery for the species.	Record a new species, touch the "Add photo" button, select "From gallery" in the modal window that appears and select a photo from the phones gallery.	A thumbnail of the selected photo is shown next to the "Add photo" button.	A copy of the photo is stored correctly in the species record (shown in the summary view).
FR4	Check that the user is able to shoot a new photo using the phones camera for the species.	Record a new species, touch the "Add photo" button, select "Shoot photo" in the modal window that appears and shoot a photo with the phones camera	A thumbnail of the new photo is shown in the species section.	A copy of the new photo is stored correctly in the species record (shown in the summary view).
FR5	Check that the user is able to delete one species from a recording.	When viewing the list of species in an unsent recording select one species to delete.	Species disappears from the list of species.	Species and all its details are deleted from the recording.
	FR4	is able to add a photo from the phones gallery for the species. FR4 Check that the user is able to shoot a new photo using the phones camera for the species. FR5 Check that the user is able to delete one species from a	FR4 Check that the user is able to add a photo from the phones gallery for the species. "From gallery" in the modal window that appears and select a photo from the phones gallery. FR4 Check that the user is able to shoot a new photo using the phones camera for the species. "Shoot photo" in the modal window that appears and shoot a photo with the phones camera app. FR5 Check that the user is able to delete one species from a recording. select one species	FR4 Check that the user is able to add a photo from the phones gallery for the species. FR4 Check that the user photo is shown next to the species. From gallery in the modal window that appears and select a photo from the phones gallery. FR4 Check that the user is able to shoot a new photo using the phones camera for the species. FR5 Check that the user is able to delete one species from a recording. Check that the user is able to delete one species species. Check that the user is able to delete one species species. Check that the user is able to delete one species species.

JT14	FR5	Check that the user is able to delete a whole recording.	When viewing the list of unsent recordings select one recording to delete.	Recording disappears from the list of recordings.	Recording and all the species in it are deleted.
JT15	FR5	Check that the user is able to update an unsubmitted recording.	'Edit' button is clicked on the summary page.	User taken to a page where they are able to amend the recording.	Recording is updated correctly and the user is taken back to the summary page.
JT16	FR6	Check that the user that the user can send a recording to the server.	The recording button on the app is pressed.	The recording is displayed on the website and is added to the list	The Recording is sent to the server and then added to the database.Inline with the specification documents.
JT17	FR6	Check that the recording is sent with FR2 and FR4.	The recording is sent with the information from FR2 and FR4.	The information listed contains FR2, FR4 and FR6.	The data is displayed server side showing it has passed the test.

3 Web Tests

The database server via a arecording sent from the android app. The file sizes server via a app.	Test	Test	Test Content	Input	Output	Pass Criteria
WT1 FR7 Check that the server can receive recording to the and store recordings sent from the and store recording sent from the and store recording sent from the and store recording with the correct data. The database should contain the server via a should contain the server via a app. The database should contain the server wis a should contain the server via a app. The file sizes comparison. WT2 FR7 Check for corrupt/ seeing whether incomplete files. The file sizes match on both sides. File sizes comparison. The file sizes should display and the errors are displayed on the page should display and the errors are displayed on the fields are left blank text fields. Data the serve and lext of the logar than 64 characters. Page should display and the error message should display and the error are displayed on the page. The reserve hash the error message should display and it reserve name, location and description are also missing data. The error message should display and it reserve as fields are also missing data. WT5 FR8 Add a kext to the location field as this requires OS grid reference coordinates. Input some letters instead they need to enter a valid gps location (lat,lng). An error message should display and it shouldn't save the reserve as fields are also missing data. WT6 FR8 Add a description to the text area which is longer than 100 characters. Add a paragraph which is none which is longer than 100 characters. An error message should display an			rest content	mput	- Output	Pass Criteria
the file sizes mark to no both sides. WT3 FR8 Add a new reserve with blank text fields blank text fields blank text fields longer than 64 characters and this requires OS grid reference coordinates WT6 FR8 Add a description to the text area which is longer than 100 characters WT6 FR8 Add a description to the text area which is longer than 100 characters WT6 FR8 Add a description to the text area which is longer than 100 characters WT7 FR8 Add a new reserve to the table with a 100 characters WT7 FR8 Add a new reserve to the table with a 100 characters WT7 FR8 Add a new reserve to the table with a 100 character to the fields correctly table WT8 FR8 When a reserve is Keep a note of The edit button WT7 FR8 When a reserve is Keep a note of The edit button WT7 FR8 When a reserve is Keep a note of The edit button Add a new reserve should display and it shouldn't save the reserve as fields are also missing data WT8 FR8 When a reserve is Keep a note of The edit button The reserve should display and it shouldn't save the reserve should be added and you should be saved in the table WT8 FR8 When a reserve is Keep a note of The edit button The reserve should display and it should be saved in the table WT8 FR8 When a reserve is Keep a note of The edit button The reserve should display and it shouldn't save the reserve should be added and you should be added and you should be saved in the table WT8 FR8 When a reserve is Keep a note of The edit button The reserve should be saved in the table The reserve should be saved in the table The reserve should be saved in the table The data should wheth the table with the table of the table with th	WT1	•	server can receive and store recordings sent from the android	recording to the server via a	should contain the new recording with	
reserve with blank text fields are left blank with nothing input in the fields WT4 FR8 Add a reserve name which is longer than 64 characters WT5 FR8 Add text to the location field as this requires OS grid reference coordinates WT6 FR8 Add a description WT6 FR8 Add a description WT7 FR8 Add a new reserve table which is longer than 100 characters WT7 FR8 Add a new reserve to the tax area which is longer than 100 characters WT7 FR8 Add a new reserve to the table without the correct data format WT7 FR8 When a reserve is Keep a note of The edit button WT8 FR8 When a reserve is Keep a note of The edit button Add a server reserve name is too long and that there is a 64 character and displayed displayed displayed of numbers of the text area without the correct data format WT7 FR8 When a reserve is Keep a note of The edit button Add a reserve name, displayed on the reserve name, location and description An error message should displayed and it shouldn't save the reserve as fields are also missing data WT6 FR8 Add a new reserve to the fields correctly without the correct data format WT7 FR8 When a reserve is Keep a note of The edit button WT8 FR8 When a reserve is Keep a note of The edit button The data should	WT2	FR7	corrupt/	seeing whether the file sizes match on both		
mame which is longer than 64 characters FR8 Add text to the location field as this requires OS grid reference coordinates WT6 FR8 Add a description to the text area which is longer than 100 characters WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT7 FR8 Add a new reserve to the table WT8 FR8 When a reserve is When a reserve is Keep a note of The edit button The data should to tell the user the reserve name is too long and that there reserve as fields are also missing data The error message should display and it should be displayed in the reserve should be no error message is a character max of 100 The reserve should be no error message should display as realso missing data The error message should display as message should display and it should be no error message should display as realso missing data The error message should display as message should display as message should display as message should display as message should displayed message should display as message should display as message should display as message should display as message should displayed message should displayed and it the reserve should be added and you should be message should displayed and the new reserve should be message should displayed and the new reserve should be saved in the table	WT3	FR8	reserve with	fields are left blank with nothing input in	3 errors and ask you to enter a reserve name, location and	hasn't saved and the errors are displayed on the
location field as this requires OS of numbers to tell the user that grid reference coordinates WT6 FR8 Add a description to the text area which is longer than 100 characters which has more than 100 characters WT7 FR8 Add a new reserve to the table without the correct data format format WT8 FR8 When a reserve is Keep a note of The edit button	WT4	FR8	name which is longer than 64	name which is longer than 64	should be displayed to tell the user the reserve name is too long and that there is a 64 character	message should display and it shouldn't save the reserve as fields are also missing
to the text area which has more than 100 the reserve display and it than 100 characters description is too shouldn't save the long and that there is a character max of 100 data WT7 FR8 Add a new reserve to the fields correctly be added and you no error table without the correct data redirected back to format the reserves page new reserve should be saved in the table WT8 FR8 When a reserve is Keep a note of The edit button The data should	WT5	FR8	location field as this requires OS grid reference	letters instead	should be displayed to tell the user that they need to enter a valid gps location	message should display and it shouldn't save the reserve as fields are also missing
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·	WT7	FR8	reserve to the	fields correctly without the correct data	be added and you should be redirected back to	no error messages displayed and the new reserve should be saved
	WT8	FR8		•		

Separate page should be the stored data should be the should be the compare to displayed in the form fields should be the compare to displayed in the form fields should be the some all data the stored data the stored data the separate fields the separate the separat						
reserve name to be longer than 64 characters characters characters at his is is longer than 64 characters at his is is he maximum that can be entered which should then go back to the previous reserve name as it won't overwrite it overwrite it is the maximum that can be entered which should then go back to the previous reserve name as it won't overwrite it overwrite it is the maximum that can be entered which should then go back to the previous reserve name as it won't overwrite it is the page should display 3 errors to say the name, location and and the data has and then should leave the data how in the description fields and and then should leave the data how in the form field and then should beave the data how in the form the OS grid reference to text instead and replace it with some text instead are serve that was being edited the data fields for a reserve by making it longer than 100 characters WT12 FR8 Try to edit the description of a reserve by making it longer than 100 characters WT13 FR8 Edit all of the data fields for a reserve by filling it with data that will be accepted than 100 characters WT14 FR8 Check reserves data can be deleted with definition of the table and it should be and has been under the table and it should fished and has been under the table and it should fished and has been under the table and it should fished and has been under the table and it should then amaked the previous reserve and part evides and the should film the previous reserve and the maximum that can be description of the table and it should film the previous reserve and the maximum that can be described and the should film the previous reserve and the should film the previous reserve and the previous reserve and the should be lable and has held the data fileds for a reserve from the description of the table and it should the previous reserve and the should film the previous reserve and the should film the previous reserve and the previous reserve that was elect edit then the data fileds and it should the description			stored data should be displayed in the form fields	then click edit to compare to ensure all data is displayed and is correct	which should show the form fields and the stored data	same as it was on the previous page and should be in the separate fields
with empty fields that have no data in them empty fields that have no data in them empty fields that have no data in them empty fields and them that have no data in them empty fields and them that have no data in them empty save it earn and the data has not been overwritten to be and then should leave the data how it previously was every endisplayed overwritten to be blank. WT11 FR8 Try to edit the reserve location by changing it and replace it from the OS grid reference to text efference to text effort than 100 ensure that it characters where that in the data fields for a reserve by filling it with data that will be accepted the data fields for a reserve by filling it with data that will be accepted edeted the description of the reserve page as edited and reserve possible and a reserve page as edited and eleted the reserve possible and a reserve possible and a reserve prom the table and select delete from the one you want to get rid offf WT14 FR8 Check reserves deleted from the one you want to get rid offf WT14 FR8 Check reserves with a first page and the data from the one you want to get rid offf WT15 data from the data from the description fields and the data how it previously was not been displayed been displayed been displayed and not been sure that in docation and it previously was being edited. An error should message should display and in update the reserve that was being edited. An error message should display to message should display to message should display to message should display to say you have exceeded the character count for character count for the description the description to the description to the description back to the reserve that was edited and reserve spage as edited and reserve spage as edited and reserve page. This should be reference to the viewed in the table and it should eleted table and it should eleted table and has been successfully deleted the reserve from the viewed in the table and table and it should be redered table and table and table and table and table and table	WT9	FR8	reserve name to be longer than 64	name and ensure that is is longer than 64 characters as this is the maximum that	display an error to say that the reserve name is too long which should then go back to the previous reserve name as it won't	display the error message and not rewrite the previous reserve name as this one is over the set
reserve location by changing it from the OS grid reference to text instead instead location and it reference to text instead instead location and it reserve that was being edited WT12 FR8 Try to edit the description of a reserve by making it longer than 100 ensure that it characters goes over 100 characters goes over 100 characters Edit all of the data fields for a reserve by filling it with data that will be accepted location and it should be (lat,lng) being edited WT14 FR8 Check reserves data can be deleted from the one you want to get indication and it sis it not a valid GPS display and ot update the reserve that was being edited An error message should display to message should display and it should also not update the reserve description of the description and redirect you update the reserve that was being edited. WT13 FR8 Edit all of the data fields for a reserve name, a and redirect you updated the reserve that was being edited and reserves page as edited and reserves page as edited and reserve page. WT14 FR8 Check reserves Choose a This should delete The reserve can no longer be been successfully deleted in the table and it should be been successfully deleted displayed deleted	WT10	FR8	edited reserve with empty fields that have no data	reserve and select edit then delete all the data from the form fields and	display 3 errors to say the name, location and description fields cannot be empty and then should leave the data how	messages have been displayed and the data has not been overwritten to be
description of a reserve by the description say you have display and it should also not than 100 ensure that it character count for characters WT13 FR8 Edit all of the data fields for a reserve by filling it with data that will be accepted description of the reserve accepted reserve page WT14 FR8 Check reserves description of data can be deleted the table and reserve from the one you want to get from the one you want to get displayed deleted Description of the description of the description reserve description of the reserve spage as delited and reserve page of the table and it should the reserve can no longer be deleted from the one you want to get displayed deleted Description of the description of the description of the reserve from the one you want to get rid off	WT11	FR8	reserve location by changing it from the OS grid	in the form field and replace it with some text	appear to say that is it not a valid GPS location and it	message should display and not update the reserve that was
data fields for a reserve name, a and redirect you updated the reserve by filling it with data that will be accepted will be accepted description of the reserve accepted reserve page WT14 FR8 Check reserves data can be deleted the table and reserve from the table and reserve from the select delete table and it should table and has from the one you want to get rid off reserve name, a and redirect you updated the reserve that was edited and reserve spage as edited and redirection to the reserve page This should delete that row and no longer be viewed in the table and it should table and has been successfully you want to get displayed deleted	WT12	FR8	description of a reserve by making it longer than 100	paragraph to the description text area and ensure that it goes over 100	should display to say you have exceeded the character count for	message should display and it should also not update the reserve
data can be reserve from that row and no longer be deleted the table and reserve from the viewed in the select delete table and it should table and has from the one no longer be been successfully you want to get displayed deleted rid off	WT13	FR8	data fields for a reserve by filling it with data that	reserve name, a GPS location and a description of	and redirect you back to the reserves page as this should be	updated the reserve that was edited and redirection to the
WT15 FR8 Check order of The reserves Viewing the table The reserves are	WT14	FR8	data can be deleted	reserve from the table and select delete from the one you want to get	that row and reserve from the table and it should no longer be displayed	no longer be viewed in the table and has been successfully deleted
	WT15	FR8	Check order of	The reserves	Viewing the table	The reserves are

		reserves	should be ordered in alphabetical order to make it easier for the user to find the reserve they want to edit or delete	should show the reserves in alphabetical order from the name of the reserve	saved in the table in alphabetical order
WT16	FR8	Check to ensure that the user can log into the account/website	Enter the user name 'admin' and password '123' into the login form and press login	As this is the user name and password that is in the database it should give access to the website	The user should be logged in and should be able to access the functions and options on the reserves page to add, edit and delete
WT17	FR8	Check to ensure that you can't login to the website using a user name and password which isn't in the database	Enter a random name and password into the form fields and press login	This should not allow you to login and should display and error message saying the login details are invalid	The user shouldn't be able to gain access to the website without having the user name and password from database
WT18	FR8	Once logged in the navigation should change from login to logout	Login to the website and check to ensure that the navigation bar has updated	The navigation bar should have updated	The navigation bar now has a link to logout rather than login
WT19	FR8	Once logged in you should have access to the functions that only the admin can carry out	Once logged in go to the reserves page and check to ensure that the buttons have no appeared	The buttons should now be displayed to allow the user to add, edit and delete reserves	The buttons are displayed and the admin can now carry out these options
WT20	FR8	When you are not logged in as the admin you should not be able to view the buttons to carry out the extra functions	When you are not logged in as the admin user you should go the reserves page to see if the buttons are there	The buttons for add, edit and delete should no longer be displayed on the website	The buttons would not be displayed on the reserves page so the user cannot carry out the extra functions
WT21	FR9	The user should be able to search by reserve on the recordings page	Select a reserve from the drop down menu and select search	This should then display the records that are only related that reserve	The records for the selected reserve are the only ones being

					displayed
WT22	FR9	The user should also be able to order the records by date after searching for a reserve	Select a reserve from the drop down menu and select search and then it should be ordered by the date	This should display the selection of records for the chosen reserve and should then order by date added	The records are only shown for chosen reserve and are ordered by the date
WT23	FR9	The records table should be sorted in alphabetical order by the species Latin name	Check the records page to ensure that it is stored in alphabetical order with the species name	This should be displayed in alphabetical orders of the species name	The records should be stored in alphabetical order of the species name
WT24	FR9	Check the viewing of thumbnails and images to ensure that they match and load properly	Open one of the thumbnails of the scene or species and ensure	Ensure that the one that opens matches the thumbnail that you clicked on	The thumbnail and image should match

Version	Date	Changes Made	Changed by
1.0	11.11.2014	Original document.	cpm6
1.1	11.11.2014	Removed duplicated tests and typos.	cpm6
1.2	11.11.2014	Changes made after formal review.	cpm6
1.3	10.02.2015	Added more Web tests	cpm6