CS221 Group Project
Test Specification

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Contents

1 Introduction

1.1 Purpose of this Document

This document describes the test specification and procedure for the Reserve Plant Species Recording project (RPSR).

The document will give a guide on the main stages of testing.

Team members are to read this document and confirm that the test specification is understood, and sets out sufficient testing requirements.

1.2 Scope

This test specification aims to provide information about what in the project needs to be tested for the RPSR.

1.3 Objectives

The objectives of this document are:

- To provide all the developers a document that can be looked up to make sure they understand what is needed

- To make sure that the project is kept to the requirments stated in the breif

- To make sure we know what we will need to check when we finish the project

2   TestPlan

2.1   Android User

Individual Module Testing will be left to the coder, and tests should be written before the coding is done.

Test Ref Req Being Tested Test Content Input Output Pass Criteria

Test Ref	Req Being Tested	Test Content	Input	Output	Pass
SE-F-001	FR1	Startup of Software	Start up Android	Android App should open.	Android app opens without error.
SE-F-002	FR2	Valid username/password allows user to login	Enter valid username/password	App should confirm successful login and proceed to App.	App confirms successful login and proceeds to the App.
SE-F-003	FR2	Invalid username/password does not allow user to login	Enter invalid username/password combination.	App should state that it was an invalid login and does to login.	App states that the login details are invalid, stays on login page.
SE-F-004	FR3	User allowed to add a plant name to the database.	Enter plant name to the database via android app.	States that plant details are successfully added to the database.	Plant details successfully added to the database.
SE-F-005	FR4	User allowed to add Species Details.	Enter Species Details to the database via android app.	States that plant details are successfully added to the database.	Plant details successfully added to the database.
SE-F-006	FR4	User not allowed to enter invalid Species Details to the database.	Enter invalid Species Details to the database via android app.	App states that the details entered are invalid.	Does not enter to database. Returns to input page.
SE-F-007	FR4	User allowed to add a picture of a plant to the database.	Enter a plant picture to the database via android app.	States that plant picture is successfully added to the database.	Plant picture successfully added to the database.
SE-F-008	FR4	User not allowed to add a non-image file when prompted for a picture of a plant.	Attempt to enter a non-image file to the database.	States that the file is not an image file.	Does not enter to database. Returns to input page.
SE-F-009	FR4	User not allowed to add a picture a certain size (to be discussed with group.)	Attempt to add a picture to the database that exceeds a valid image file to the database (e.g larger image file than 20MB).	States that the file exceeds filesize limits.	Does not enter to database. Returns to input page.
SE-F-010	FR4	User allowed to record the level of abundance of the plant within the area.	Record the level of abundance of the plant. Enter a valid input.	States that abundance of plant is successfully added to the database.	Level of abundance successfully added to the database.
SE-F-011	FR4	User not allowed to enter an invalid input for abundance of plant.	Attempt to enter an invalid input for abundance of plant.	States that the input is invalid.	Does not enter to database returns to input page.
SE-F-012	FR6	Application should know whether it is able to send records to the database when it is connected to the internet.	Attempt to send records to database use of the local storage to the internet.	States that records successfully sent to the database.	Successfully sends records to the database.
SE-F-013	FR6	Application should know whether it is able to send records to the database when it is connected to the internet.	Attempt to send records to database use of the local storage to the internet.	States that the app is not connected to the internet, and that data is stored.	States that the app is not connected to the internet and Stores the records of records were stored in local storage.

2.2 Website User

Individual Module Testing will be left to the coder, and tests should be written before the coding is done.

Test Ref	Req Being Tested	Test Content	Input
SE-F-014	FR2	Valid Username/Password allows user to login.	Login with valid Username/Passw...
SE-F-015	FR2	Invalid Username/Password does not allow user to login.	Login with invalid Username/Pass...
SE-F-016	FR3	User allowed to add a plant name to the database.	Enter valid plant name using the w...
SE-F-017	FR3	User not allowed to add an invalid plant name to the database.	Enter invalid plant name using the ...
SE-F-018	FR4	User allowed to add Species Details.	Enter valid Species Details using the...
SE-F-019	FR4	User not allowed to add invalid Species Details.	Enter invalid Species Details using th...
SE-F-020	FR4	User allowed to add a picture of a plant to the database.	Enter a valid image file to the database usi...
SE-F-021	FR4	User not allowed to add a non-image file when prompted for picture of a plant.	Attempt to enter a non-image f...
SE-F-022	FR4	User allowed to record the level of abundance of the plant within the area.	Enter level of abundance of the plant usin...
SE-F-023	FR5	User able to make changes to any record that they have added to the database.	Attempt to change Plant Name of a user i...
SE-F-024	FR5	User able to make changes to any record that they have added to the database.	Attempt to change Species Details of a user...
SE-F-025	FR5	User able to make changes to any record that they have added to the database.	Attempt to change plant picture of a user i...
SE-F-026	FR5	User able to make changes to any record that they have added to the database.	Attempt to change abundance details of a use...
SE-F-027	FR5	User able to remove any record that they have added to the database.	Attempt to remove a user-added record fro...

2.3 Admin

Individual Module Testing will be left to the coder, and tests should be written before the coding is done.

Test Ref	Req Being Tested	Test Content	Input
SE-F-028	FR7	Server allows a user to login to the application through the android app providing they use a valid username/password.	See SE-F-002
SE-F-029	FR7	Server allows a user to login to the application through the website providing they use a valid username/password.	See SE-F-014
SE-F-030	FR7	Server does not allow a user who attempts to login using the android app without a valid username/password.	See SE-F-003
SE-F-031	FR7	Server does not allow a user who attempts to login using the website without a valid username/password.	See SE-F-015
SE-F-032	FR9	When user wants to view, edit, or delete records they have entered, the server calls them from the database.	See SE-F-026, See SE-F-027
SE-F-034	FR9	Server must be able to send and receive data from the phone of records being entered	See SE-F-004 See SE-F-005 See SE-F-007 See SE-F-010
SE-F-036	FR5	The website admin should be able to remove any record entered into the database by any user	Admin attempts to remove a record entered by
SE-F-037	FR8	The database administrator will be able to log into the database and manage/maintain it, if they provide correct login details.	Attempt to login with valid details.
SE-F-038	FR8	The database will not allow someone to login without providing valid login details.	Attempt to login with invalid details.

3 Test Result Reporting

subsectionReport Details of test results are to be maintained in the group github, under TestReports. Module tests are to be maintained in the ModuleTests folder, and System tests in the SystemTests folder.

4 Refrences

4.1 Refrence

- Document standards SE.QA.03

- Test Procedure Standards done in accordance with SE.QA.06

5   Document History

Version	Edit	Date	Persons
0.1	Initial Version	January 1 1970	anon00