Software Engineering Group 11

SE\_11\_TS\_04

Web Test Specification

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Configuration Ref: SE\_11\_TS\_04

Date: 2014-11-13

Version: 1.0

Status: Release

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SY23 3DB

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# Introduction

## Purpose of Document

The purpose of this document is to give a comprehensive guide to the tests we will carry out on our Website once we reach the testing phase.

## Scope

This document aims to be a brief but detailed document listing our test specifications for the Website.

## Objectives

This document covers:

* FR7 – Server Receives Recording
* FR8 – Addition and Maintenance of Reserves
* FR9 – Browsing Species Records
* EIR – External Interface Requirements
* PR – Performance Requirements

## Documents Included

This Test Specification has been derived from the following documents

* SE.QA.RS – Requirement Specification[1]
* SE\_11\_PP – Project Plan[2]

# Web Test Specification

## FR7 – Server Receives Recording

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test content | Input | Output | Pass criteria |
| SE-F-001 | FR7 | Server receives transmissions of recordings and stores them in the database. | A record is transmitted to the server and stored in the database. | Server receives the input and then stores it in the database correctly. | New recording is in the database. |
| SE-F-002 | FR7 | User X is authenticated | User name and password. | User name will display in the ‘You’ page. The server knows the user is in session. | Correct user name is displayed. Correct user data is displayed. |
| SE-F-003 | FR7 | User is authorised to access the website. | User name and password. | User is logged into the site. | User X has access to the web app. |

## FR8 – Addition and Maintenance of Reserves

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SE-F-004 | FR8 | Create/Update  Reserve Name with a valid name | Aber | Name is accepted and saved into the database | Aber is displayed with no errors or warnings |
| SE-F-005 | FR8 | Create/Update  Reserve Name with numbers | 1476 | Name is rejected and not saved | An error appears alerting the user that numbers are not allowed |
| SE-F-006 | FR8 | Create/Update  Reserve Name with 50 characters (Upper Boundary) | Aberystwyth reserve of nature and plants and trees | Name is accepted and saved into the database | Aberystwyth reserve of nature and plants and trees Is displayed with no errors or warnings |
| SE-F-007 | FR8 | Create/Update  Reserve Name with 50 characters | Aberystwyth reserve of nature plants biology study | Name is rejected and not saved | An error appears alerting the user that they have gone over the character limit |
| SE-F-008 | FR8 | Create/Update  Reserve Name with 4 characters (Lower Boundary) | Aber | Name is accepted and saved into the database | Aber is displayed with no errors or warnings |
| SE-F-009 | FR8 | Create/Update  Reserve Name with 3 characters | abe | Name is rejected and not saved | An error appears alerting the user that they have not entered enough characters |
| SE-F-010 | FR8 | Delete  Reserve | Press Delete | The Reserve Is deleted | The record of the reserve is no longer on the database |
| SE-F-011 | FR8 | Check if there are duplicate names or if name is saved | User inputs a name and make sure there are no duplicates. | The name is displayed and stored in the database | Name is displayed without any duplicates |
| SE-F-012 | FR8 | Create/Update Reserve Location that is valid | 20.534, 50.435 | Location is accepted and saved into the database | 20.534, 50.435 is displayed with no errors or warnings |
| SE-F-013 | FR8 | Create/Update Reserve Location with characters | 3kfm , 34jdd | Location is rejected and not saved | An error appears alerting the user that they can’t use Alphabetical characters |
| SE-F-014 | FR8 | Create/Update Reserve Location with 20 Characters (Upper Boundary) | 304.22581, 250.14858 | Location is accepted and saved into the database | 304.22581, 250.14858 Is displayed with no errors or warnings |
| SE-F-015 | FR8 | Create/Update Reserve Location with 21 characters | 254.21687, 145.257894 | Location is rejected and not saved | An error appears alerting the user that they have gone over the character limit |
| SE-F-016 | FR8 | Create/Update Reserve Location with 3 characters  (Lower Boundary) | 3,6 | Location is accepted and saved into the database | 3,6 Is displayed with no errors or warnings |
| SE-F-017 | FR8 | Create/Update Reserve Location with 2 characters | 3, | Location is rejected and not saved | An error appears alerting the user that they have not entered enough characters |
| SE-F-018 | FR8 | Textual description | Description can be edited and updated | Description will appear for the species. | Data is appeared correctly |

## FR9 – Browsing Species Records

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SE-F-019 | FR9 | Check if species found at a particular reserve can be displayed | Name of reserve e.g.  Coed Rhiedol National Nature Reserve | Species that have been found at that reserve | All species that are found at the nature reserve are displayed |
| SE-F-020 | FR9 | Check if species found at a reserve that does not exist can be displayed | Name of a reserve that does not exist e.g. abc | An error message should be shown | No records should be shown |
| SE-F-021 | FR9 | Check if data can be displayed in alphabetical order of Latin name | A list of unsorted data | List of results ordered by their Latin name | Species are ordered A-Z |
| SE-F-022 | FR9 | Check if data can be displayed in reverse alphabetical order of Latin name | A list of unsorted data | List of results ordered by their Latin name | Species are ordered Z-A |
| SE-F-023 | FR9 | Check if a record with a particular date can be displayed | A record recorded on the current date | The record is displayed | The record from the date is displayed |
| SE-F-024 | FR9 | Check if the earliest recording can be displayed | A record recorded on 1st January 1990 | The record is displayed | The earliest recording is displayed |
| SE-F-025 | FR9 | Check if a recording dated before the earliest entry date can be displayed | A record recorded before 1st January 1990 | The record is not displayed | The recording taken before 1st January 1990 is not shown |
| SE-F-026 | FR9 | Check if the latest recording can be displayed | A record recorded on 31st December 2050 | The record is displayed | The latest recording is displayed |
| SE-F-027 | FR9 | Check if a recording dated after the latest entry date can be displayed | A record recorded after 31st December 2050 | The record is not displayed | The recording taken after 31st December 2050 is not shown |
| SE-F-028 | FR9 | Check if records can be ordered by date | A list of unsorted data | Full list of sorted results | List is ordered by date (newest to oldest) |
| SE-F-029 | FR9 | Check if records can be reverse-ordered by date | A list of unsorted data | Full list of sorted results | List is ordered by date (oldest to newest) |

## EIR – External Interface Requirements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SE-F-030 | EIR1 | Check if user is able to navigate the application with minimal training | A new user using the web application for the first time | Feedback from the user about their experience | Positive feedback from the user |

## PR – Performance Requirements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SE-F-032 | PR1 | Check if user input is responded to within a second by the application | Input from the user | Changes to data displayed | Changes are shown within a certain amount of time |
| SE-F-032 | PR2 | Check if software runs as expected on supported systems | Application used on web browsers used by the university | Application displays information requested by the user | Application and its components work correctly |

# REFERENCES

[1] – SE.QA.RS – Requirement Specification – N.W.Hardy

[2] – SE\_11\_PP – Project Plan – Group 11

# DOCUMENT HISTORY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Version | CCF No. | Date | Changes made to document | Changed by |
| 1.0 | N/A | 13/11/14 | Document Created and Structured | Add20 & Tcg2 |