Group Project 05

Test Specification

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# Introduction

## Purpose of this document

The purpose of this document is to display all of the system testing that the team will use to make sure the walking tour application meets the standards of the requirement specification that the client gave.

## Scope

This document includes all of the system tests that the team will implement on the android and server side of the application.

This Document should be read after familiarisation with the Project Management Plan [1]. The specifications listed in Functional Requirements [2] and the Test Procedure Standards [3].

## Objectives

The objective of this document is to show what tests will be used to make sure the application, the website and database will meet the requirement specification given by the client. All tests will have description and implementation information. The client should make sure that the tests provided here test the application fully and if the application passes all the tests displayed here, the client is to accept the project as complete.

# Android side testing

## System testing table

# Server side testing

## System testing table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Ref | Req being  tested | Test content | Unexpected Input | Expected Input | Output | Pass Criteria |
| SE\_05\_TEST\_15 | FR8 | Test that the sample route has correct GPS locations. | No internet  connection or invalid  co-ordinates | Co-ordinates of  sample route. | Vector polygon plotted  on the map. | The plotted line is the same as the co-ordinates of the sample route. |
| SE\_05\_TEST\_16 | FR8 | Test that the points of interest are recorded along the sample tour. | No internet connection | Set of points of  interest. | The points of  interest plotted on the map. | The co-ordinates of the points of interest are plotted to the correct locations on the map. |
| SE\_05\_TEST\_17 | FR8 | Test that the pop-up shows up in the correct location and it holds the correct information. | N/A | Click on a point of  interest. | A CSS popup with correct information. | A css popup appears by the POI on the map. The title and short description are the same as the correct route. |
| SE\_05\_TEST\_18 | FR8 | Test image thumbnails in pop-ups and check that they are the correct images. | N/A | Click on point of  interest on the  sample tour. | Strip of thumbnails. | The thumbnails represent all of the images associated with the point of interest. |
| SE\_05\_TEST\_19 | FR6 | Check that the phone can send a HTTP post to the server. | N/A | A user sending a request to the server, via the phone. | Site log file. | The log file is updated with the transaction associated with the user. |
| SE\_05\_TEST\_20 | FR6 | Check that the data is  formatted as a valid MIME message. | N/A | A String field in the post request. | The attachments and the JSON data from the MIME messages. | The PHP program is able to decode the MIME message and extract the data and the attachments. |
| SE\_05\_TEST\_21 | FR6 | Check that the data is  formatted as valid JSON. | N/A | String of JSON data. | Records of the tour  and its relations in the database. | The record and its relations in the database contain the  correct data in the correct fields. |
| SE\_05\_TEST\_22 | FR6 | Check that the image files have been saved. | N/A | The image files  associated with the sample route. | The file system on the server. | The images have been saved to the correct directory within the file system on the server. |

# References

[1] Software Engineering Group 05. Project Plan. S. Raychev, B. O’Donovan, H. Clark, W. Arslett, W. Lea, N. Vicker and S. Clasby. 1.2 Release.

[2] Software Engineering Group 05. Requirements Specification. C. J. Price and B. P. Tiddeman. SE.QA.RS. . 1.4 Release.

[3] Software Engineering Group 05. Test Procedure Standards. C. J. Price, N. W. Hardy and B. P. Tiddeman. SE.QA.06. . 1.7 Release.

# Document change history

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| --- | --- | --- | --- | --- |
| Version | CCF No. | Date | Changes Made to the Document | Changed by |
| 1.0 | N/A | 14/11/2013 | N/A – First release of test specification. | srr11 |
| 1.1 | N/A | 15/11/2013 | Corrected serverside test table | wia2 |
| 1.2 | N/A | 27/01/2014 | Fixed problems with document | bmo, njv1 |