A Top-Down testing strategy is used for testing this application. This is done incrementally where the higher levels of the system are tested first, such as the navigation buttons which allow the user to either move between pages or exit the application.

To test this application, defect testing will be used to attempt to simulate as many potential outcomes as possible with the intent on finding any bug or logic errors. Both unit and integration testing will be carried throughout the development phase.

Objective and Scope

The objective of testing this application is to ensure that the software requirements that were obtained from the Requirement Specification Use Case diagram, are all implemented and complete.

The scope of the testing is to cover all functional and non-functional requirements.

Test Item

Euston Leisure Message Filtering Service Version 1.0 is the single test item that will be tested.

Test Deliverables

For this application the test deliverables will be this test plan document, the test strategy, the test cases and test logs.

Features to be tested

* Input Messages manually
* Input Messages from file
* Save Messages
* View Stored Messages
* Export Json File
* GUI buttons
* Trending List
* Mentions List
* SIR list

Testing Methods

For the testing of this application we be using both Black box (functional) and White box (structural) approaches to testing software.

The Black box testing approach will be used when testing Event Validation and Page Navigation.

The White box testing approach will be used to test the input validation, where multiple test paths and boundaries need tested.

Environmental Needs

To complete the testing of this application, a PC running Windows 10 and Visual Studio 2017 was used. The minimum requirements to run Windows 10 are:

* Processor: 1 gigahertz (GHz) or faster processor or SoC
* RAM: 1 gigabyte (GB) for 32-bit or 2 GB for 64-bit
* Hard disk space: 16 GB for 32-bit OS 20 GB for 64-bit OS
* Graphics card: DirectX 9 or later with WDDM 1.0 driver

Microsoft Word was used to record all data in the Test Logs and all testing was done by myself.

Test Schedule