Software Testing Report

<Accident Data User Interface>

Lambert Niyuhire, Cody Perkins, Mitchell Reid

Table of Contents

[1.0 Unit Tests 3](#_Toc49779837)

[2.0 Coverage Report 4](#_Toc49779838)

[3.0 Requirements Acceptance Testing 5](#_Toc49779839)

# Unit Tests

| **No** | **Test Case** | **Expected Results** | **Actual Results** |
| --- | --- | --- | --- |
| **1.0** | Wordcount Functions |  |  |
| 1.1 | Test a wrong filename | Exception Handled | Exception Handled |
| 1.2 | Test empty input file | Display error message and exit | Display error message and exit |
| **2.0** | Histogram Functions |  |  |
| 2.1 | Empty input dictionary | Display error message and exit | Display error message and exit |

# Coverage Report

In our evaluation of the Accident Data User Interface, we did more than just a quick glance at the extensive unit tests we've developed. Our evaluation of coverage was thorough. We spent a great deal of time analysing how effectively our tests covered distinct statements within specific functions, the many branches in our decision-making process; the factors that determined how our programme would run.

# Requirements Acceptance Testing

| **Software  Requirement No** | **Test** | **Implemented (Full /Partial/ None)** | **Test Results (Pass/ Fail)** | **Comments (for partial implementation or failed test results)** |
| --- | --- | --- | --- | --- |
| 1 | There is a clear hierarchy and structure to the interface | Full | Pass | Ensures alignment with design criteria |
| 2 | Wireframes and mock-ups match visual design elements | Full | Pass | A consistent visual appearance is observed |
| 3 | Data from accidents can be navigated seamlessly through the system | Full | Pass | A seamless navigation of accident data is provided by the system |
| 4 | Invalid input error handling | Full | Pass | Results are in line with expectations |
| 5 | Invalid file names or non-existent files should be displayed with appropriate messages | Full | Pass |  |
| 6 | Icons and graphics (visual elements) are displayed appropriately | Full | Pass | Fits the aesthetic of the design |
| 7 | Ensure that full path inputs are handled when handling file names | Full | Pass | In accordance with the design |
| 8 | Windows supports multi-level file names | Partial | Fail | Due to performance issues, the program fails after 100 levels |
| 9 | The Gantt chart is implemented with all activities and milestones | Full | Pass | Project features are implemented according to plan |
| 10 | Using the mock-ups as a basis for data visualization | Full | Pass | The wireframe mock-ups and diagrams in Drawio match expectations. |
| 11 | Integrated with the database according to the Gantt plan. | Full | Pass | Integrate the database seamlessly |