Software Testing Report

Victoria State Accident Software

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# Unit Tests

| **No.** | **Test Case** | **Expected Results** | **Actual Results** |
| --- | --- | --- | --- |
| **1.0** | **Date Input Functions** |  |  |
| 1.1 | Input Invalid Character (e.g. letter, special character) | Display error message and exit |  |
| 1.2 | Input Dates in the wrong order (End date is earlier than start date) | Display error message and exit |  |
| 1.3 | Input dates which refer to no data | ‘No Results match’ Text displayed |  |
| **2.0** | **Alcohol Analysis Functions** |  |  |
| 2.1 | Select attribute to view relationship with | Exception Handled |  |
| **3.0** | **Keyword Input Functions** |  |  |
| 3.1 | Input empty string | Display error message and exit |  |
| 3.2 | Input Incorrect string | ‘No Results match’ Text displayed |  |
| **4.0** | **Software Functionality** |  |  |
| 4.1 | UI navigation | Able to navigate through UI pages as design intended |  |
| 4.2 | Login function | Able to login with an account |  |

# Coverage Report

A description of the coverage of your unit tests, including how you evaluated coverage (function, statement, branch, condition)

In order to test coverage of the software, each of the unit tests must be evaluated. Each unit test will have its functions, statements, branches and conditions tested for coverage. Meaning that each aspect of the function is checked to determine it gets used, called or executed in the program.

Date input functions –

Alcohol analysis function -

Keyword input functions -

Software functionality -

# Requirements Acceptance Testing

| **Software  Requirement No** | **Test** | **Implemented (Full /Partial/ None)** | **Test Results (Pass/ Fail)** | **Comments (for partial implementation or failed test results)** |
| --- | --- | --- | --- | --- |
| 1 | The program shall accept new data as soon as it is entered into the excel file. |  |  |  |
| 2 | New data entered into the excel file shall update any existing accident analysis and reports. | None | Fail | Reports are static and not updated in this planned dynamic manner. |
| 3 | The program shall provide searching capabilities for user-selected periods and user-selected keywords. | Full | Pass | Works as intended. |
| 4 | The program can generate graphical statistics to present the data from the dataset. | Partial | Pass | Not as detailed as design document exclaimed but still a working feature. |
| 5 | The program will contain security measures, specifically a user verification to gain access. | Partial | Fail | User verification non-existent – did not have time to implement. |
| 6 | The program can produce charts to show accident data. | Full | Pass | Works as intended. |
| 7 | The charts can contain multiple pieces of data in order to compare trends and relationships. | Full | Pass | Works as intended. |