Software Testing Report

Victorian Accident Analysis Project

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# Unit Tests

| **No** | **Test Case** | **Expected Results** | **Actual Results** |
| --- | --- | --- | --- |
| **1.0** | **Import functions** |  |  |
| 1.1 | Test a wrong filename | Display error message and exit |  |
| 1.2 | Test an empty/invalid file | Display error message and exit |  |
| **2.0** | **Data functions** |  |  |
| 2.1 | Check valid date | Display error message and exit |  |
| 2.2 | Test infoByTime loads data | Display error message and exit |  |
| 2.3 | Test accidentByHour loads data | Display error message and exit |  |
| 2.4 | Test keywordByTime loads data | Display error message and exit |  |
| 2.5 | Test alcoholType loads data | Display error message and exit |  |
| 2.6 | Test weekdayAnalysis loads data | Display error message and exit |  |
| 2.7 | Test valid keyword | Display error message and exit |  |
|  |  |  |  |
|  |  |  |  |

# Coverage Report

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

# Requirements Acceptance Testing

(You will need to fill out the column on the left with the requirements listed in software design documents and the columns on the right with the results of your own testing)

| **Software  Requirement No** | **Test** | **Implemented (Full /Partial/ None)** | **Test Results (Pass/ Fail)** | **Comments (for partial implementation or failed test results)** |
| --- | --- | --- | --- | --- |
| 1 | Accept multiple file names as arguments from the command line |  |  |  |
| 2 | Display the details of all valid files |  |  |  |
| 3 | Display an appropriate message if a file does not exist or if a file name is invalid |  |  |  |
| 4 | Display a message if an argument is a directory instead of a file |  |  |  |
| 5 | File name can be a simple file name or include the full path of the file with one or more levels |  |  |  |
| 6 | file names must start with an alphabetical character |  |  |  |
| 7 | Valid file name extensions must be 3 or 4 alphabetical characters preceded by a dot) |  |  |  |
| 8 | Directory/level names must start with an alphabetical character to be considered valid |  |  |  |
| 9 | The program should be able to accept as many levels for each file name as the user wants to input. This is limited only by the number of levels allowed in Windows (approximately 120) |  |  |  |