Software Testing Report

*NSW Traffic Penalty Data Search*

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# Unit Tests

| **No** | **Test Case** | **Expected Results** | **Actual Results** |
| --- | --- | --- | --- |
| **1.0** | **Graph Function** |  |  |
| 1.1 | Test if columns are in the data frame | Display error message and exit | Display error message and exit |
| 1.2 | Test if min date is lower than the max | Use Default Data | Use Default Data |
| 1.3 | Test if the dates can be split into month and year | Display error message and exit | Display error message and exit |
| **2.0** | **Date conversion Function** |  |  |
| 2.1 | Test if the date is valid | Exit | Exit |
| 3.0 | **Date Search Function** |  |  |
| 2.1 | Test if min date is lower than the max | Use Default Data | Use Default Data |
| 4.0 | **Key Word Functions** |  |  |
| 2.1 | If the Case on words is filtered | Ignores the Case on words | Ignores the Case on words |
| 5.0 | **Video Data Functions** |  |  |
| 2.1 | If the Case on words is filtered | Ignores the Case on words | Ignores the Case on words |

# Coverage Report

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

# Requirements Acceptance Testing

| **Software  Requirement No** | **Test** | **Implemented (Full /Partial/ None)** | **Test Results (Pass/ Fail)** | **Comments (for partial implementation or failed test results)** |
| --- | --- | --- | --- | --- |
| 1 | Load csv files into the required format | Full | Pass |  |
| 2 | Accept a start and end date as a search parameter | Full | Pass |  |
| 3 | Accept the start and end date parameter while using other search parameters. | Full | Pass |  |
| 4 | Accept a keyword as a search parameter | Full | Pass |  |
| 5 | Remove all data not recorded on camera if selected | Full | Pass |  |
| 6 | Have a toggle to search through the previously searched data or the full dataset. | Partial | Pass | It works when searching through previously searched data initially but after afew repeated uses an error occurs |
| 7 | Bar graph of the case distribution in each offense code within a start and end date. | Full | Pass |  |
| 8 | Line graph of the mobile phone penalty data within a start and end date. | Full | Pass |  |
| 9 | Line graph of the average cost of penalty cases within a start and end date. | Full | Pass |  |