Software Testing Report

NSW Traffic Penalty Data

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# Unit Tests

Delete the RED text and replace with your own

(In this table you fill out details about what unit tests you have done using the unittest module)

| **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

**Function**

Out of the 125 statements all functions in the program have been called.

**Statement**

Out of the 125 statement tests 3 statements failed to be called by the program.

**Branch**

Out of the 125 statement tests 1 return branch failed to be called by the program.

**Condition**

Out of the 125 statements all functions in the program have been called.

Graphical user interface, text, application, email

Description automatically generated

# 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 | The program shall accept dates presented DD-MM-YYYY as arguments for start and end dates | Partial | Fail | Calendar was added but caused issues with the grid and was removed so program worked. |
| 2 | In the case improper format is entered or date is out of range, the program will provide respective errors. | None | Fail | No errors were created for incorrect calendar start and end dates. |
| 3 | Users can input their license number or CRN to get information based on the case diagram NSW traffic system. | None | Fail | License Number or CRN was not apart of the data set and therefore can’t be input. |
| 4 | Users can input their offence code to track their fine cost. | Partial | Fail | No input feature created but can still find this data with current features. |
| 5 | The program shall recognise radio options and only allow one to be selected at a time. | None | Fails | no radio options available to implement this. |
| 6 | The program buttons shall route to the correct page. | Full | Pass | All buttons connect to the correct data visualisation. |
| 7 | Program creates plots for the data to be displayed | Full | Pass | Program creates the plot and visualises outside of the original app. |
| 8 | Program reads the data and displays accordingly | Full | Pass | Program reads the data.csv and creates a grid for visualisation of all data. |
|  |  |  |  |  |