**SOFTWARE TESTING REPORT**

**Victoria State Accident Dashboard**

**Submitted By:**

**GROUP 33**

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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

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 | The program shall have two sets of filters for the user to select a start date and an end date. The first set will be for the charts, while the second set will be for the table. | Full | Pass |  |
| 2 | The program shall have a filter for users to select the category (i.e., accident type, severity, or region name). | Full | Pass |  |
| 3 | The program shall have a filter for users to select the data’s relation to alcohol (alcohol-related, not alcohol-related, or both). | Full | Pass |  |
| 4 | The program shall have a search box for the user to have an option to filter the results on the table based on keywords under ACCIDENT\_TYPE. | Full | Pass |  |
| 5 | The program shall remind the user that the start date and end date must be within the certain date range and in the correct format (YYYY/MM/DD) to allow search. | Full | Pass |  |
| 6 | The program shall contain a search button for the user to click and execute the search action. | Full | Pass |  |
| 7 | After performing a search, the program shall contain a line chart to show the average number of accidents in each hour of the day based on the selected period, category, and relation to alcohol. | Full | Pass |  |
| 8 | After performing a search, the program shall contain a bar chart to show the number of accidents by sub-category, based on the selected period, category, and relation to alcohol. | Full | Pass |  |
| 9 | After performing a search, the program shall contain a line chart to show the number of accidents for each specific month by sub-category, based on the selected period, category, and relation to alcohol. | Full | Pass |  |
| 10 | After performing a search, the program shall display all accident information that matches the selected period and keyword under ACCIDENT TYPE. | Full | Pass |  |
| 11 | The program shall show a Victoria State logo for users to recognise the authenticity of the website on the homepage. | Full | Pass |  |
| 12 | The program shall contain an instruction guide to describe how to use the function. | Full | Pass |  |
| 13 | In case of system lag, the program can be re-started. | Full | Pass |  |
| 14 | The system shall be able to perform the search result and display the output (data and diagrams) within 15 seconds. | Full | Pass |  |
| 15 | The user will only be able to view the data but will not be allowed to make modification on the database. | Full | Pass |  |
| 16 | The program shall use python as the main programming language | Full | Pass |  |
| 17 | The system shall be accessible using MacOS or Windows. | Full | Pass |  |