Software Testing Report

<Group 98>

Jaeseok Kim

Mausham Kafle

Same Bate

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# Unit Tests

| **No** | **Test Case** | **Expected Results** | **Actual Results** |
| --- | --- | --- | --- |
| 1 | Test a reading CSV file | Successfully read CSV file | Successfully read CSV file |
| 2 | Test a wrong filename | Display error message and exit | Display error message and exit |
| 3 | Test a converting user-selected combobox date to normal date  Tested function: date\_range() | Return converted user-selected date | Return converted user-selected date |
| 4 | Test search by user-selected date  Tested function : searchBy\_date() | Return filtered data | Return filtered data |
| 5 | Test visualising the number of accidents on average  Tested function : opt2() | Display chart according to user-selected date | Display chart according to user-selected date |
| 6 | Test search by user-entered accident type  Tested function : opt3() | Return filtered data | Return filtered data |
| 7 | Test visualising the impact of alcohol in accidents  Tested function : opt4() | Display chart according to user-selected date | Display chart according to user-selected date |
| 8 | Test search by speed zone  Tested function : opt5() | Return filtered data | Return filtered data |
| 9 | Wrong formatted date input in searchBy\_date() | Display error message and exit | Display error message and exit |
| 10 | Wrong formatted date input in opt2() | Display error message and exit | Display error message and exit |
| 11 | Wrong formatted date input in opt3() | Display error message and exit | Display error message and exit |
| 12 | Wrong formatted date input in opt4() | Display error message and exit | Display error message and exit |
| 13 | Wrong formatted date input in opt5() | Display error message and exit | Display error message and exit |

# Coverage Report

테이블이(가) 표시된 사진

자동 생성된 설명

텍스트이(가) 표시된 사진

자동 생성된 설명

텍스트이(가) 표시된 사진

자동 생성된 설명

**Every function, statement, branch, and conditions are tested via coverage test and unit test. For further information, refer to included coverage folder**

# Requirements Acceptance Testing

| **Software  Requirement No** | **Test** | **Implemented (Full /Partial/ None)** | **Test Results (Pass/ Fail)** | **Comments (for partial implementation or failed test results)** |
| --- | --- | --- | --- | --- |
| 1 | Crash Statistics Victoria.csv file must be within same path. | Full | Pass |  |
| 2 | Allow users to define time period for date search by entering Initial and final (*to* and *from*) dates. | Full | Pass |  |
| 3 | Filter the Victoria State Accident Dataset using the date search. | Full | Pass |  |
| 4 | Filter the Victoria State Accident Dataset with user defined keywords. | Full | Pass |  |
| 5 | Filter the Victoria State Accident Dataset where alcohol was a factor. | Full | Pass |  |
| 6 | Filter the Victoria State Accident Dataset where speed was a factor. | Full | Pass |  |
| 7 | Sort search results in tabular format for better analysis and understanding. | Full | Pass |  |
| 8 | Generate graphs from selected dataset attributes. | Full | Pass |  |
| 9 | Present selected dataset attributes information as 2D charts. | Full | Pass |  |