Software Testing Report

Victoria State Accident

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# Unit Tests

| **No** | **Test Case** | **Expected Results** | **Actual Results** |
| --- | --- | --- | --- |
| **1.0** | Entering prompt command to open the data. | The data of the csv should open somewhere in the internal data structure mainly in PyCharm with panda or Jupiter’s notebook. | Showing all the data of the csv in large table rows in Jupiter’s notebook or PyCharm running command prompt. |
| 1.1 | Testing to show all the data in csv in PyCharm or Jupiter’s notebook. | Allow the user to show the data in rows of tables including all the accidents, times, and types either in PyCharm running command or Jupiter’s notebook. | The csv file should be able to open finely either in PyCharm or Jupiter’s notebook showing the whole data. |
| 1.2 | Test to see if the csv can show results | Displaying all the whole data sets when running in both internal data structures. | Be able to read and display the csv file in the data structure. |
| **2.0** | Histogram Functions | Be able to display chart showing the percentages for the accident types in a chart for all days, times, and types. | Unable to show the chart due to error coding for the csv data for PyCharm and Jupiter’s Notebook. |
| 2.1 | Testing empty input dictionary | Displaying an error message prioritising to the incorrect input of coding in the data structure. | Displaying an error message and finding the incorrect codes and fix it. |
| **3.0** | Testing the code of the csv for the search bar | Able to show a search bar either at the top of the data structure for the users to type in and search. | The search bar for PyCharm would occur below when running and for Jupiter’s notebook to opening the file. |
| 3.1 | Testing to see the keywords in the filters for the search bar | The filters would be next to the search bar for the users to fill in for the expected search result. | The filters for PyCharm would occur below when running and similar for Jupiter’s notebook. |
| 3.2 | Testing the search bar for specific results | The search results should input the correct results when the user type in the search bar. | The results should show when PyCharm is running for the users to type in below and show the results. The same method works in Jupiter’s notebook. |
| **4.0** | Testing the code of the csv to show all crashes and fatal injuries | The csv should show the table rows for all crashes and fatal injuries. | The results have shown all crashes and fatal injuries for both PyCharm and Jupiter’s notebook. |
| 4.1 | Testing to see the percentages of the collision | The csv data are able show the percentages of the collision in table rows. | The results have shown all percentages collision for both PyCharm and Jupiter’s notebook when running in prompt or opening the file. |
| 4.2 | Testing to show tables rows for each accident types | The csv data are able show the percentages of the collision in table rows. | The results have shown all percentages in each table rows for both PyCharm and Jupiter’s notebook when running in prompt or opening the file. |
| **5.0** | Testing the filters for days, times and week | The filters next to the search bar should have the days, times and weeks before typing in the search bar. | Unable to implement due to additional coding for the csv in both PyCharm and Jupiter’s notebook. |
| **6.0** | Dataset Values | The csv data showing all the dataset values for the whole table is shown correctly. | The results have shown the dataset values are valid when shown in running or file opening. |
| **7.0** | Representing the dates for all crashes | The csv data are able show all the dates for all crashes next to their rows. | The results have shown all the dates for all crashes for both PyCharm and Jupiter’s notebook when running in prompt or opening the file. |
| **8.0** | Accidental Time Zones | The csv data are able the time zones when the accident has occurred. | The results have shown all the time zones when the accidental occurred for both PyCharm and Jupiter’s notebook when running in prompt or opening the file. |
| 8.1 | Testing to show alcohol times and percentages | The csv data are able show the percentages of the collision in table rows. | The results have shown the times and percentages for alcohol for both PyCharm and Jupiter’s notebook. |

# 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 | The program shall have the dataset and accepted as one in the command line. |  |  |  |
| 2 | The program shall have each name of the accident include the path of the file with the levels |  |  |  |
| 3 | The program of the dataset will show the results for all crashes, fatalities, and injuries in a table row |  |  |  |
| 4 | Displaying a message if the argument in the code is a directory instead of a different function |  |  |  |
| 5 | There will be a search bar for the users to enter the dataset for the Victorian State Accident |  |  |  |
| 6 | Entering the search bar for the dataset will show the user the result of the accident |  |  |  |
| 7 | For the users to search the specific results with the function to show all types of accidents |  |  |  |
| 8 | The program also shows time zones for all accidents that occurred in the dataset |  |  |  |
| 9 | The program should be able to accept as many levels for each search results with filters as the user wants to input. |  |  |  |