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| UI implementation for Victoria state accident database Executive Summary |
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# Abstract

A 100 to 150 word executive summary of your findings. Do this last.

# Introduction

Explains the purpose of this report. Include the date range covered, and the different analysis tasks performed

# **Analysis 1 <show data for 2018>**

To display the capabilities of the software we have decided to used data between December 31st 2017 to December 31st 2018. If the user selects show data for 2018 it will produce a table. This can be seen here:

A screenshot of a computer

Description automatically generated

In the initial design document it was planned to have a table which showed the objectID, accident\_NO, accident\_status, accident\_date, accident\_time and the severity. In the figure above that is what is displayed.

Based on the requirements of your dataset, put the results of your analysis of a 12 month date period for each of the required functionalities in these sections. Change the title names to reflect your dataset and the analysis being performed. You may include images from your program as well as your own description of the results.

# **Analysis 2 <alcohol impact >**

To display the capabilities of the software we have decided to used data between December 31st 2017 to December 31st 2018. If the user selects alcohol impacts the a table will be produced along with a pie chart. This can be seen below.

A screenshot of a computer

Description automatically generated

Within the software design document we had initially planned on generating a table such as the one below. However this was abandoned as it was more beneficial for the researchers in our use case to have a visual representation of the data. A table was still included so that the users can still have access to the necessary data.

|  |  |  |  |
| --- | --- | --- | --- |
| Accident types | % of alcohol involvement | Severity with alcohol involvement | Severity without alcohol involvement |
| Collison with fixed object | 20% of collison with fixed objects have alcohol involvement | 20% serious  80%other | 30% serious 70%other |
| Collision with vehicle | 20% of collison with fixed objects have alcohol involvement | 20% serious  80%other | 30% serious 70%other |

# **Analysis 3 <speed zones>**

To display the capabilities of the software we have decided to used data between December 31st 2017 to December 31st 2018. If the user selects speed zones then a table and a bar graph will be generated. This can be seen below.

A screenshot of a computer

Description automatically generated

Within the software design document we had planned on utilizing just a graph to display the data however it will be easier for researchers to include the results if we provide a table. Because of this both a table and a graph will be generated for the end users.

# **Analysis 4 <search by accident type>**

To display the capabilities of the software we have decided to used data between December 31st 2017 to December 31st 2018. If the user selects search by accident type then the software will produce a table which will display data for accidents that belong to that accident type. This data will also be trimmed when compared to the raw data as less relevant data will not be displayed. This can be seen in the figure below.

A screenshot of a computer

Description automatically generated

# **Analysis 5 <accidents per hour>**

To display the capabilities of the software we have decided to used data between December 31st 2017 to December 31st 2018. If the user selects accidents per hour then a chart will be generated which can be seen below. This chart shows the hour on the x axis and the total amount of accidents in 2018 that occurred in that hour on the y axis. This graph clearly depicts which hours of the day have more accidents.

A screenshot of a computer

Description automatically generated