Project Plan

Victorian State Accident   
Data Analysis   
and Visualisation Tool

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# Introduction

## Background

Our team has been assigned the task of creating a data analysis and visualisation tool based on a data set of our choosing. We have chosen the first data set containing information on road accidents in the state of Victoria.

## Scope

The application is to be developed to work natively on the Windows 10 OS for desktops and laptops. We aren’t concerned with multiple platforms or developing a remote/web tool that can be accessed via a web browser; the application will be run locally.

Our primary task with this application is take the wealth of data and transform it into an easy to digest, understandable collection of graphs and statistics. The user will be able to define various search parameters that filter the dataset, should the user only want to analyse a particular section of the dataset.

## Document contents

This project plan contains a work-breakdown structure which is an itemised list of features for application and various documentation tasks required to develop those features. Activity definitions and estimates are also contained within this document, which go into greater detail about the nature of each feature and task within the WBS, alongside an estimated timeframe for their completion. Finally, there will be a Gantt chart which visually demonstrates the scheduling estimations made previously.

# Work Breakdown Structure

1. **Pre-production**
   1. Establish Team Communications
   2. Familiarise Ourselves with Assignment Details
   3. Selecting a Dataset
2. **Design and Planning**
   1. Project Plan
      1. Introduction
      2. Work-Breakdown Structure
      3. Activity Definition and Estimation
      4. Gantt Chart
   2. Design Documents
      1. System Vision
      2. Requirements
      3. System Design/Components
      4. User Interface Design
3. **Implementation**
   1. UI Functionality
   2. Display Dataset
   3. Search Dataset
   4. Update Dataset
   5. Login Functionality
   6. Graph Functionality
   7. Search Comparison Functionality
4. **Testing**
5. **Post-production/Support Documentation**
   1. Testing Report
   2. User Manual
   3. Executive Summary

# Activity Definition & Estimation

1. **Pre-production (Est: 3 days)**
   1. Establish Team Communications **(Est: 1 day)**  
      Create channels of communication between team members
   2. Familiarise Ourselves with Assignment Details **(Est: 1 day)**  
      Thoroughly read the assignment and understand our responsibilities
   3. Selecting a Dataset **(Est: 1 day)**  
      Select an appropriate data set
2. **Design and Planning (Est: 2 weeks)**
   1. Project Plan
      1. Introduction **(Est: 1 day)**  
         Write an overview about the nature of the project, its background, scope, etc.
      2. Work-Breakdown Structure **(Est: 2 days)**

Identify the steps necessary to deliver the project

* + 1. Activity Definition and Estimation **(Est: 2 days)**  
       Define and elaborate on the details of those steps
    2. Gantt Chart **(Est: 2 days)**  
       Visual representation of the activities scheduling estimations
  1. Design Documents
     1. System Vision **(Est: 1 day)**

Write about what the final project will look like, what uses it provides and what benefits can be gained from using it.

* + 1. Requirements **(Est: 2 days)**

Identify each of the necessary functions that project must be able to achieve so that the user will be able to get the benefit described earlier.

* + 1. System Design/Components **(Est: 2 days)**

Detailing of the structures, functions and sequencing that make up the inner workings of the project

* + 1. User Interface Design **(Est: 2 days)**

Example screens to demonstrate what the final product will look like and how the user will interact with it.

1. **Implementation (Est: 3 weeks)**
   1. UI Functionality **(Est: 3 days)**  
      Program can be loaded with some visual elements that will house data, take user input and execute various functions
   2. Display Dataset **(Est: 3 days)**

Data set is able to loaded into the UI and displayed correctly

* 1. Search Dataset **(Est: 3 days)**

Dataset is able to queried/filtered

* 1. Update Dataset **(Est: 3 days)**

New records are able to be added to the dataset

* 1. Login Functionality **(Est: 3 days)**

Program checks user credentials

* 1. Graph Functionality **(Est: 3 days)**

Query results and select analytic functions return a chart/graph to visually represent the data

* 1. Search Comparison Functionality **(Est: 3 days)**

2 separate query results can be compared to analyse differences in trends

1. **Testing (Est: 1 week)**

Assess each functionality according to previously establish requirements and user stories.

1. **Post-production/Support Documentation (Est: 1 week)**
   1. Testing Report **(Est: 3 days)**

A summary of how well the final product reaches expectations

* 1. User Manual **(Est: 3 days)**

A guide for users that examines how all the functions can be performed

* 1. Executive Summary **(Est: 1 day)**

A succinct expression of what has been achieved and the nature of final solution developed.

# Gantt Chart

