# Project Plan

<Project Name>

Student Names

Table of Contents

[1.0 Introduction 3](#_Toc46748287)

[1.1 Problem Background 3](#_Toc46748288)

[1.2 Scope 3](#_Toc46748289)

[1.3 Document contents 3](#_Toc46748290)

[2.0 Work Breakdown Structure 4](#_Toc46748291)

[3.0 Activity Definition & Estimation 5](#_Toc46748292)

[4.0 Gantt Chart 6](#_Toc46748293)

# Introduction

## Background

## Scope

## Document contents

*Include some background information about the problem, the scope and what this document will contain.*

# Work Breakdown Structure

*This section should include the work breakdown structure for the whole project. The elements from the WBS should be used to generate your activity definition and those activities should then be scheduled in the Gantt Chart. Remember to consider ALL project activities – anything you do or will need to do should be included in the WBS*

*WBS’s are usually presented as some kind of hierarchical diagram/chart etc. The details what is involved each work unit should be provided in section 3:* ***Activity Definition***

*You do NOT need to do a WBS Dictionary for this project – the activity definition (whilst slightly different) will suffice. The WBS is focussed on SCOPE. The Activity definition is focussed on TIME.*

1. Concept
   1. Develop project plan
   2. Define requirements
      1. User requirements
      2. Software requirements
      3. Use Case & Use Case Diagram
2. Design
   1. Define software components
      1. Functions
      2. Data structures
      3. Data sources
   2. User interface Design
      1. Structural Design
      2. Visual Design
3. Software Development
4. Test
   1. Unit test
   2. Coverage Report
   3. Requirement Acceptance Testing
5. Executive Summary

# Activity Definition & Estimation

*From your WBS, define the activities required for your project. You will revise this document and add more detail for part B as you discover more about the project.*

*Each activity should be clearly identified by a number and should match up to your Gantt chart. You should provide some estimations for the time you think each activity will take. This should make it easy to prepare your Gantt chart.*

**Activity:01 Functional Requirements:**

The Data Analysis and Visualization Tool should allow users to:

1. enter time and dates (to and from) to set the time period with which to filter Victoria State Accident Dataset;
2. filter Victoria State Accident Dataset based on date and time;
3. filter Victoria State Accident Dataset based on keyword(s);
4. filter Victoria State Accident Dataset for daily trends of accidents (eg: ratio of accidents happening at different time periods throughout the day at different locations);
5. compare the relevance of Dark Street lights against other attributes such as location, conditions, crash type, road user type, object hit;
6. analyse the impact of alcohol consumption on accidents at different time periods throughout the day;
7. analyse and check output results;
8. use charts and infographics to visualize output results;
9. analyse the safest times and locations to travel;
10. compare the relevance of road type and location on accidents.

**Activity:02 Use Case:**

|  |  |  |
| --- | --- | --- |
| **Sr.#** | **Use Case** | **Description** |
| 01 | General Search of VSAD | Filter-less search on VSAD using the DAaV tool returns random results. |
| 02 | Apply *Data & Time* search filter | Time & Date filter will return results within selected time period for analysis. |
| 03 | Apply *Keywords* based search filter | Keywords filter will return targeted search results for analysis. |
| 04 | Apply *Accident Daily Trends* filter | Daily Trend filter will return search results, sorted by time of day. |
| 05 | Apply *Dark Street Lights* filter | Dark Street lights filter will modify search results, based on if it was dark and street lights were on or off. |
| 06 | Check *Alcohol* filter | Alcohol time filter will modify search results, based on if alcohol was a factor |
| 07 | Analyse Output | Selected filters will return specific search results based on selected filters. |
| 08 | Visualize Output on Charts | Output Chart generate charts from the search results returned from selected filters. |
| 09 | Recommendation for Travel | Travel recommendations will return safest time period (least accidents) to travel to selected location |
| 10 | Accidents Comparison | Accidents Comparison will return results based on selected filters for two selected locations for comparison |

# Gantt Chart

*This section should contain your Gantt chart. The items in the Gantt chart should match the activity definition from section 3. You should also submit your Gantt chart file separately.*