Project Plan

<Project Name>

Student Number

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

The number of automobiles on the road is increasing every day. As convenient as it makes the life of users, more cars running on the road simply means more chance of road accidents. One of the best ways to reduce the chances of accidents and loss of life and property in the future is to study when, how, and why the accidents have happened over the time at that area. We can thus see the patterns and trends of the accidents which helps a great deal in finding the leading causes of accidents and thus see where changes can be made.

We have incorporated the use of data analysis and their tools to study injury and fatal crashes in Victoria based on various metrics.

## Scope

PROJECT SCOPE STATEMENT

PROJECT NAME:………………………………….. DATE:………………………………….

Scope Description:

Our group will be designing a software with the objective of collecting and analyzing the information regarding fatal and injury crashes in the state of Victoria. We will be basing the information with various metrics that will help to a greater understanding of the causes and factors leading up to said accidents.

Project Deliverables:

* Various metrics are used to provide attributes to the crashes such as time of accident, weather conditions, crash type, fatality, drugs & alcohol consumption, age & sex of parties involved
* Design charts and visual representation of the statistics regarding those accidents based on the time/hour of the day they occurred
* Set up a system where the software will analyze the causes of those accidents based on the keywords used
* Determine the effects of drug and alcohol consumption before crashes
* Using the dataset to discover the most accident-prone areas and the common reasons behind them being so.

Project Acceptance Criteria

* Successful incorporation of multiple attributes as causes of accidents
* Successful graphical representation of the user selected attributes and statistics based on the dataset provided
* Accurate use and retrieval of key words to analyze the causes of accidents

Project Exclusion

* Statistics of accidents outside the state of Victoria.
* Accidents where the causes and fatality of the crash were corrected after 2020.

Project Constraints

* The dataset will be limited only to the road crashes from the years 2015 to 2020 confined within the state of Victoria.
* The statistics of the crashes will be limited to the ones that had formal reports made by the Government of Victoria.
* Budget
* Limited number of project members involved

## Document contents

The project demands the use of following documents to ensure all the criteria and objectives are met:

* A Work Breakdown Structure of the tasks broken down into smaller units
* Activity Definition & Estimation for each of the activities done chronologically during the project
* A Gantt Chart based on the activity definition and estimation that will act as a graphic representation of all the milestones of the project.

# 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.*

# 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.*