Project Plan

<NSW Traffic Penalty Data Analysis and Visualisation Tool>

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# Introduction

## Background

This report (Part A) is a structural breakdown of a two-part assessment, in this first part, a plan will be prepared that includes a project overview, work-breakdown structure, activity definition, and estimation as well as a Gantt chart for displaying and scheduling time estimation. Following this a software design document will be prepared for the NSW (New South Wales) Traffic Penalty Data and its related functionality requirements, it will include a system vision statement, the programs functionality requirements, use case documentation, software components, and the related software design, and a wireframe of the user interface (to be implemented in Part B).

Implementation of this structural report will occur in Part B, as the overall goal of the assessment is to develop a simple data analysis and visualisation tool for a dataset. Prior to the implementation of code, Part B will focus on the formulation of a testing plan to ensure the components within the system function correctly, these findings will be documented within a testing report. Furthermore, a user manual that explains the software and an executive summary that has analysed the data across a 12-month will be submitted alongside the final code. The final code will produce a graphical user interface that will handle the specific analysis and visualisation of NSW traffic penalty data, along with being able to complete specific analysis and visualisation tasks, one custom insight/analysis option for users to interact with will also be implemented.

## Scope

The purpose of this report is to analyse and visualise New South Wales (NSW) Traffic Penalty Data between 2011 and 2017. In the first part of this project, a project plan will be submitted, it will contain a project overview, work breakdown structure, Activity definition and estimation and a Gantt chart for displaying scheduling and time estimation. The deliverable tasks for this section of the Assessment is the Project Plan implementation and procession of this document and the software design document will occur throughout Part B of the Assessment. Part A’s project plan will be prepared utilising templates from a cloned GitHub Repo supplied via the course convenor.

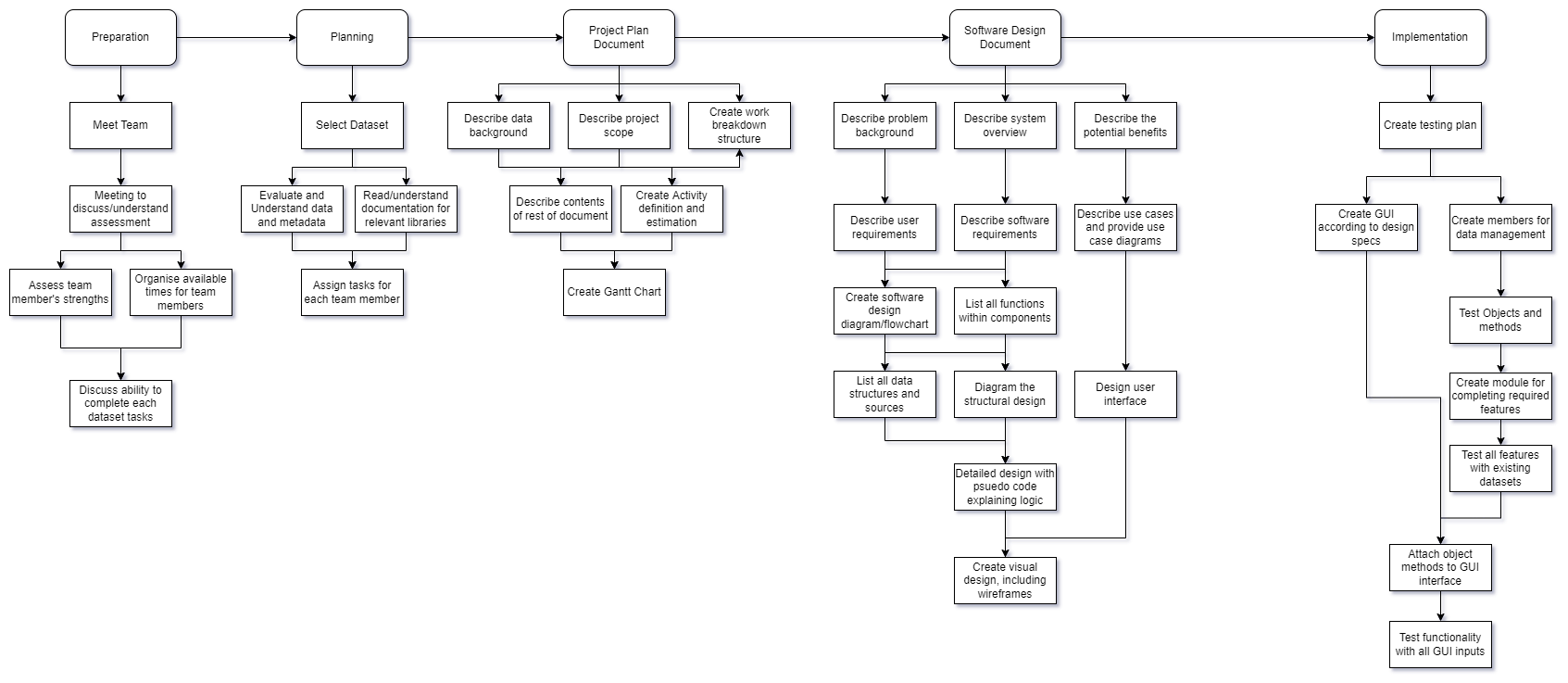
## Document contents

The contents of the project plan include three main sections. the introduction, work breakdown structure, activity definition and estimation and a Gantt Chart. Section One (1.0) of the project plan contains an introduction to the assessment specifying the assessment background, scope and documentation contents. The introduction (1.0) is then proceeded by a work-breakdown structure (2.0) that provides an itemised list of features to be implemented into the program. Furthermore, section three (3.0) will contain activity definitions and estimates, which provide estimations for the activities that match the Gantt Chart displayed in section four (4.0).

# Work Breakdown Structure

The following work breakdown structure identifies tasks that will be undertaken from the point of accepting the project to delivering the completed project. This is expected to be completed in [X Days/Weeks/Months] and as a result is expected to be completed by the final deadline of [Due Date] .

The time will be broken up into five different categories; Preparation, Planning, Completing the Project Plan, Completing the Software Design Document, and finally Implementation and development.



# Activity Definition & Estimation

The following highlights the tasks within each section of the work breakdown structure, the information is organised by title, allocated time to complete in working days followed by the definition.

### Preparation:

Meet Team: 1 :

Meeting to discuss/understand assessment: 1:

Assess team member's strengths: 1:

Organise available times for team members: 1:

Discuss ability to complete each dataset tasks:1:

### Planning:

Select Dataset: 1:

Evaluate and Understand data and metadata: 2:

Read/understand documentation for relevant libraries: 2:

Assign tasks for each team member:1:

### Project Plan Document:

Describe data background: 2:

Describe project scope: 1:

Create work breakdown structure: 3:

Describe contents of rest of document: 1:

Create Activity definition and estimation: 2:

Create Gantt Chart: 2:

### Software Design Document:

Describe problem background: 1:

Describe system overview: 1:

Describe the potential benefits1: :

Describe user requirements:1:

Describe software requirements: 1:

Describe use cases and provide use case diagrams: 3:

Create software design diagram/flowchart: 2:

List all functions within components: 2:

List all data structures and sources: 1:

Diagram the structural design: 2:

Design user interface: 1:

Detailed design with psuedo code explaining logic: 2:

Create visual design, including wireframes: 2:

### Implementation:

Create testing plan: 2:

Create GUI according to design specs: 2:

Create members for data management: 1:

Test Objects and methods: 3:

Create module for completing required features: 3:

Test all features with existing datasets: 3:

Attach object methods to GUI interface: 2:

Test functionality with all GUI inputs: 4:

*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

