Project Plan

Data Analysis Tool: NSW Traffic Penalties

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# Introduction

## Background

Road rules are essential to abide by, as each law protects the driver, passenger, and other bystanders. However, traffic penalties are enforced to encourage responsible driving further when a driver disobeys. New South Wales is one of Australia's more lenient states regarding driving rules and penalties. Compared to other Australian states, New South Wales has had the most road deaths in the last 12 months. The community should be aware of traffic penalty trends to avoid danger or offending themselves. While said data is available to the public, it is often displayed and manipulated in an unfriendly manner. Creating a tool that focuses on traffic penalties in New South Wales is necessary.

## Scope

The project aims to implement a user-friendly data analysis and visualisation software for the NSW Traffic Penalty dataset. The software, named “NSW Traffic Penalty Tool”, will identify significant traffic trends, which will aid in mitigating driving risks. While the public will be able to use the software, the target users will be the government agency Transport for NSW (TfNSW). TfNSW is responsible for major road infrastructure, licensing of drivers and registration of motor vehicles. The NSW Traffic Penalty Tool will be built with open-source resources; no costs are associated to the project. Documentation and other assets of the project are accessible within the designated GitHub repository. NSW Traffic Penalty Tool is to be fully operational by the 9th of October 2022.

## Document Contents

The Project Plan document contains an Introduction, Work Breakdown Structure, Activity Definition and Estimation, as well as a Gantt chart for the NSW Traffic Penalty Tool project.

# Work Breakdown Structure

The following diagram displays each deliverable of the NSW Traffic Penalty Tool.

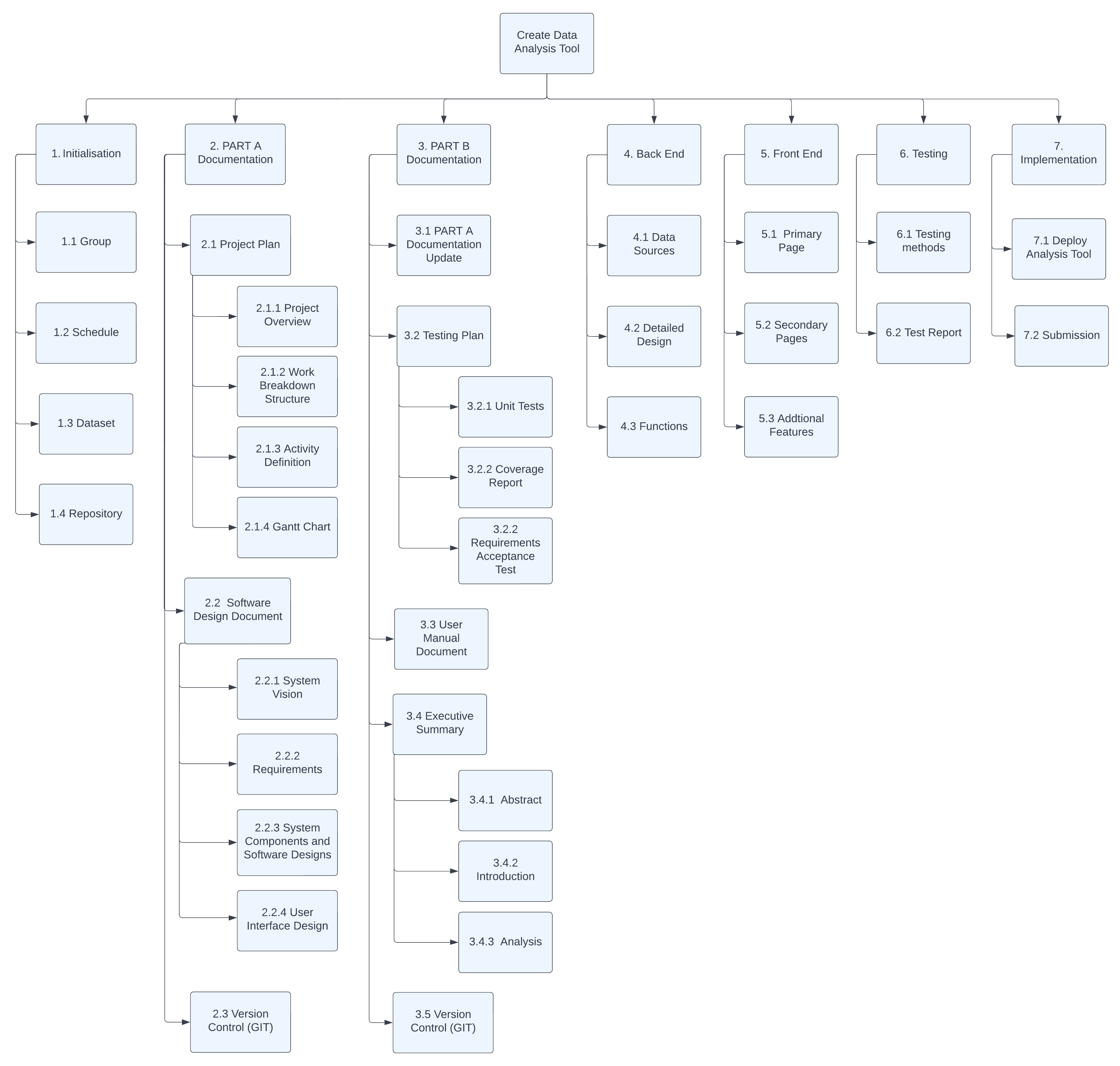


Figure - NSW Traffic Penalty Tool WBS

# Activity Definition & Estimation

Table - Initiation Deliverable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity Number | Activity Name | Activity Description | Assigned To | Start Date | End Date | Total Duration |
| 1.1.1 | Meet other students | Meet students on campus for workshops and virtually through Microsoft Teams/Discord. | All group members | 18/7/22 | 20/7/22 | 2 days |
| 1.1.2 | Get to know other students | Learn about students’ goals for the course, their schedules and other important factors for project. | All group members | 18/7/22 | 21/7/22 | 3 days |
| 1.1.3 | Form group | Find students who have similar goals and ask to form a group. | All group members | 21/7/22 | 23/7/22 | 2 days |
| 1.1.4 | Officialise group | Confirm group formally through Blackboard group signup. | All group members | 24/7/22 | 25/7/22 | 1 day |
| 1.2.1 | Set up weekly meetings | Align a weekly meeting that suits all members of group. | All group members | 24/7/22 | 25/7/22 | 1 day |
| 1.2.2 | Confirm due dates | Create an approximate plan for each deliverable to be completed. | All group members | 24/7/22 | 25/7/22 | 1 day |
| 1.2.3 | Assign tasks | Allocate deliverables and/or tasks to each member(s), according to schedules and personal strengths. | All group members | 24/7/22 | 25/7/22 | 1 day |
| 1.3.1 | View dataset options | Each member to review dataset options individually. | All group members | 26/7/22 | 28/7/22 | 2 day |
| 1.3.2 | Discuss dataset options | Members to discuss dataset options and indicate preferred dataset. | All group members | 28/7/22 | 29/7/22 | 1 day |
| 1.3.3 | Confirm dataset | Members will agree on a dataset to use for project. | All group members | 28/7/22 | 29/7/22 | 1 day |
| 1.4.1 | Create GitHub repository | One group member to create GitHub repository and cloning/copying required documentation. | Brianne Byer | 28/7/22 | 29/7/22 | 1 day |
| 1.4.2 | Add members to repository | Each member to create a GitHub account (if required). One group member to invite members and other required individuals to GitHub repository. | All group members | 29/7/22 | 31/7/22 | 2 days |
| 1.4.3 | Create local repository | Each member to create own local repository of GitHub repository. | All group members | 29/7/22 | 31/7/22 | 2 days |

Table - Part A Documentation, Project Plan Deliverable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity Number | Activity Name | Activity Description | Assigned To | Start Date | End Date | Total Duration |
| 2.1.1.1 | Draft Project Overview |  |  |  |  |  |
| 2.1.1.2 | Finalise Project Overview |  |  |  |  |  |
| 2.1.1.3 | Confirm Project Overview |  |  |  |  |  |
| 2.1.2.1 | Draft Work Breakdown Structure |  |  |  |  |  |
| 2.1.2.2 | Finalise Work Breakdown Structure |  |  |  |  |  |
| 2.1.2.3 | Confirm Work Breakdown Structure |  |  |  |  |  |
| 2.1.3.1 | Draft Activity Definition |  |  |  |  |  |
| 2.1.3.2 | Finalise Activity Definition |  |  |  |  |  |
| 2.1.3.3 | Confirm Activity Definition |  |  |  |  |  |
| 2.1.4.1 | Draft Gantt Chart |  |  |  |  |  |
| 2.1.4.2 | Finalise Gantt Chart |  |  |  |  |  |
| 2.1.4.3 | Confirm Gantt Chart |  |  |  |  |  |

Table - Part A Documentation, Software Design Document Deliverable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity Number | Activity Name | Activity Description | Assigned To | Start Date | End Date | Total Duration |
| 2.1.1.1 |  |  |  |  |  |  |
| 2.1.1.2 |  |  |  |  |  |  |
| 2.1.1.3 |  |  |  |  |  |  |
| 2.1.2.1 |  |  |  |  |  |  |
| 2.1.2.2 |  |  |  |  |  |  |
| 2.1.2.3 |  |  |  |  |  |  |
| 2.1.3.1 |  |  |  |  |  |  |
| 2.1.3.2 |  |  |  |  |  |  |
| 2.1.3.3 |  |  |  |  |  |  |
| 2.1.4.1 |  |  |  |  |  |  |
| 2.1.4.2 |  |  |  |  |  |  |
| 2.1.4.3 |  |  |  |  |  |  |

Table - Part B Documentation Deliverable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity Number | Activity Name | Activity Description | Assigned To | Start Date | End Date | Total Duration |
| 2.1.1.1 |  |  |  |  |  |  |
| 2.1.1.2 |  |  |  |  |  |  |
| 2.1.1.3 |  |  |  |  |  |  |
| 2.1.2.1 |  |  |  |  |  |  |
| 2.1.2.2 |  |  |  |  |  |  |
| 2.1.2.3 |  |  |  |  |  |  |
| 2.1.3.1 |  |  |  |  |  |  |
| 2.1.3.2 |  |  |  |  |  |  |
| 2.1.3.3 |  |  |  |  |  |  |
| 2.1.4.1 |  |  |  |  |  |  |
| 2.1.4.2 |  |  |  |  |  |  |
| 2.1.4.3 |  |  |  |  |  |  |

Table - Back-End Deliverable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity Number | Activity Name | Activity Description | Assigned To | Start Date | End Date | Total Duration |
| 2.1.1.1 |  |  |  |  |  |  |
| 2.1.1.2 |  |  |  |  |  |  |
| 2.1.1.3 |  |  |  |  |  |  |
| 2.1.2.1 |  |  |  |  |  |  |
| 2.1.2.2 |  |  |  |  |  |  |
| 2.1.2.3 |  |  |  |  |  |  |
| 2.1.3.1 |  |  |  |  |  |  |
| 2.1.3.2 |  |  |  |  |  |  |
| 2.1.3.3 |  |  |  |  |  |  |
| 2.1.4.1 |  |  |  |  |  |  |
| 2.1.4.2 |  |  |  |  |  |  |
| 2.1.4.3 |  |  |  |  |  |  |

Table - Front-End Deliverable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity Number | Activity Name | Activity Description | Assigned To | Start Date | End Date | Total Duration |
| 2.1.1.1 |  |  |  |  |  |  |
| 2.1.1.2 |  |  |  |  |  |  |
| 2.1.1.3 |  |  |  |  |  |  |
| 2.1.2.1 |  |  |  |  |  |  |
| 2.1.2.2 |  |  |  |  |  |  |
| 2.1.2.3 |  |  |  |  |  |  |
| 2.1.3.1 |  |  |  |  |  |  |
| 2.1.3.2 |  |  |  |  |  |  |
| 2.1.3.3 |  |  |  |  |  |  |
| 2.1.4.1 |  |  |  |  |  |  |
| 2.1.4.2 |  |  |  |  |  |  |
| 2.1.4.3 |  |  |  |  |  |  |

Table - Testing Deliverable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity Number | Activity Name | Activity Description | Assigned To | Start Date | End Date | Total Duration |
| 2.1.1.1 |  |  |  |  |  |  |
| 2.1.1.2 |  |  |  |  |  |  |
| 2.1.1.3 |  |  |  |  |  |  |
| 2.1.2.1 |  |  |  |  |  |  |
| 2.1.2.2 |  |  |  |  |  |  |
| 2.1.2.3 |  |  |  |  |  |  |
| 2.1.3.1 |  |  |  |  |  |  |
| 2.1.3.2 |  |  |  |  |  |  |
| 2.1.3.3 |  |  |  |  |  |  |
| 2.1.4.1 |  |  |  |  |  |  |
| 2.1.4.2 |  |  |  |  |  |  |
| 2.1.4.3 |  |  |  |  |  |  |

Table - Implementation Deliverable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity Number | Activity Name | Activity Description | Assigned To | Start Date | End Date | Total Duration |
| 2.1.1.1 |  |  |  |  |  |  |
| 2.1.1.2 |  |  |  |  |  |  |
| 2.1.1.3 |  |  |  |  |  |  |
| 2.1.2.1 |  |  |  |  |  |  |
| 2.1.2.2 |  |  |  |  |  |  |
| 2.1.2.3 |  |  |  |  |  |  |
| 2.1.3.1 |  |  |  |  |  |  |
| 2.1.3.2 |  |  |  |  |  |  |
| 2.1.3.3 |  |  |  |  |  |  |
| 2.1.4.1 |  |  |  |  |  |  |
| 2.1.4.2 |  |  |  |  |  |  |
| 2.1.4.3 |  |  |  |  |  |  |

# 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.*