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| Safe roads - Staying safe - NSW Centre for Road Safety  Project Plan  NSW Traffic Penalty Tool | Authors  Brianne Byer s5175100  Wonwoo Choi  Marco Querzola  2810ICT Software Technologies  Trimester 2, 2022 |

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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 main deliverable of the project is a user-friendly data analysis and visualisation software called the “NSW Traffic Penalty Tool” (NTPT). NTPT will identify significant traffic penalty trends, such as offence type, offence location, time of offence and many other variables. It is important to note the tool will utilise one dataset called “Australia NSW traffic penalty data 2011-2017”. Therefore, the project is restricted to said dataset and unable to assess other datasets available online. 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 NTPT 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. Planning documentation for the project will be finalised by the 4th of September 2022. NTPT 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 NTPT. Within the Introduction, a high-level overview of the background, schedule, cost, and limitations of the NTPT are established. Secondly, a work breakdown structure will demonstrate the key deliverables of the NTPT. The Activity Definition and Estimation section explores the dependencies, critical paths, and float in each project activity. Additionally, a precedence diagramming method is displayed, with the purpose to visualise all required activities. Lastly, the Gantt chart presents the NTPT project schedule which includes the owner of each activity, estimated time of completion, real time of completion, milestones, and other useful information.

# Work Breakdown Structure

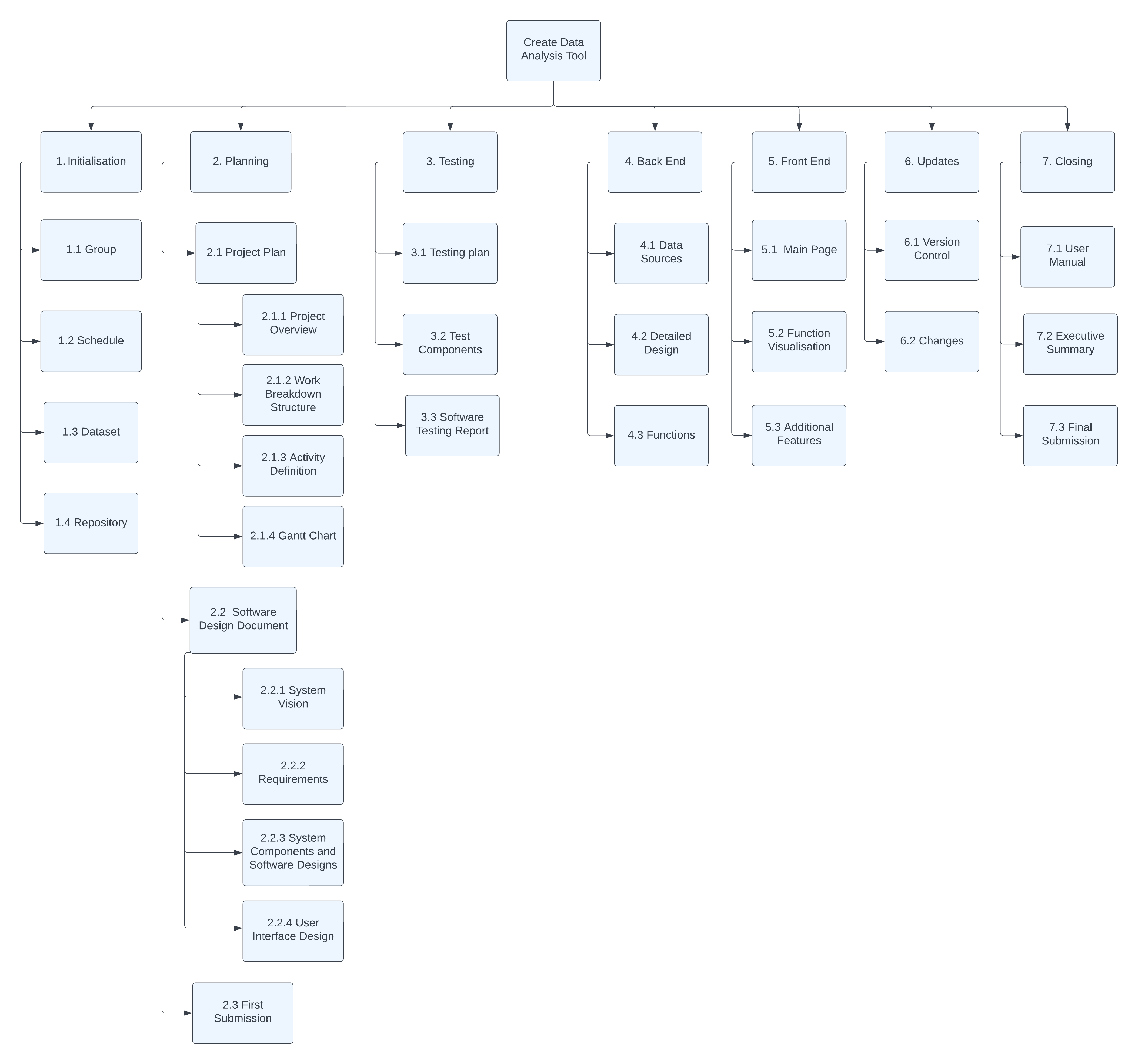


Figure – NTPT Work Breakdown Structure

Figure 1 displays each major deliverable and their associated components for the NTPT. Each work breakdown structure has four levels: main deliverable, key phases, work packages and activities. A top-down approach has been incorporated in forming Figure 1, with the largest item and main deliverable being the data analysis and visualisation software. The key phases include initialisation, planning, testing, backend, frontend, updates and closing. Each phase must be completed for the project to be completed.

# Activity Definition & Estimation

Time management is a significant aspect of project management. To reduce risk, each activity for the NTPT must be acknowledged.

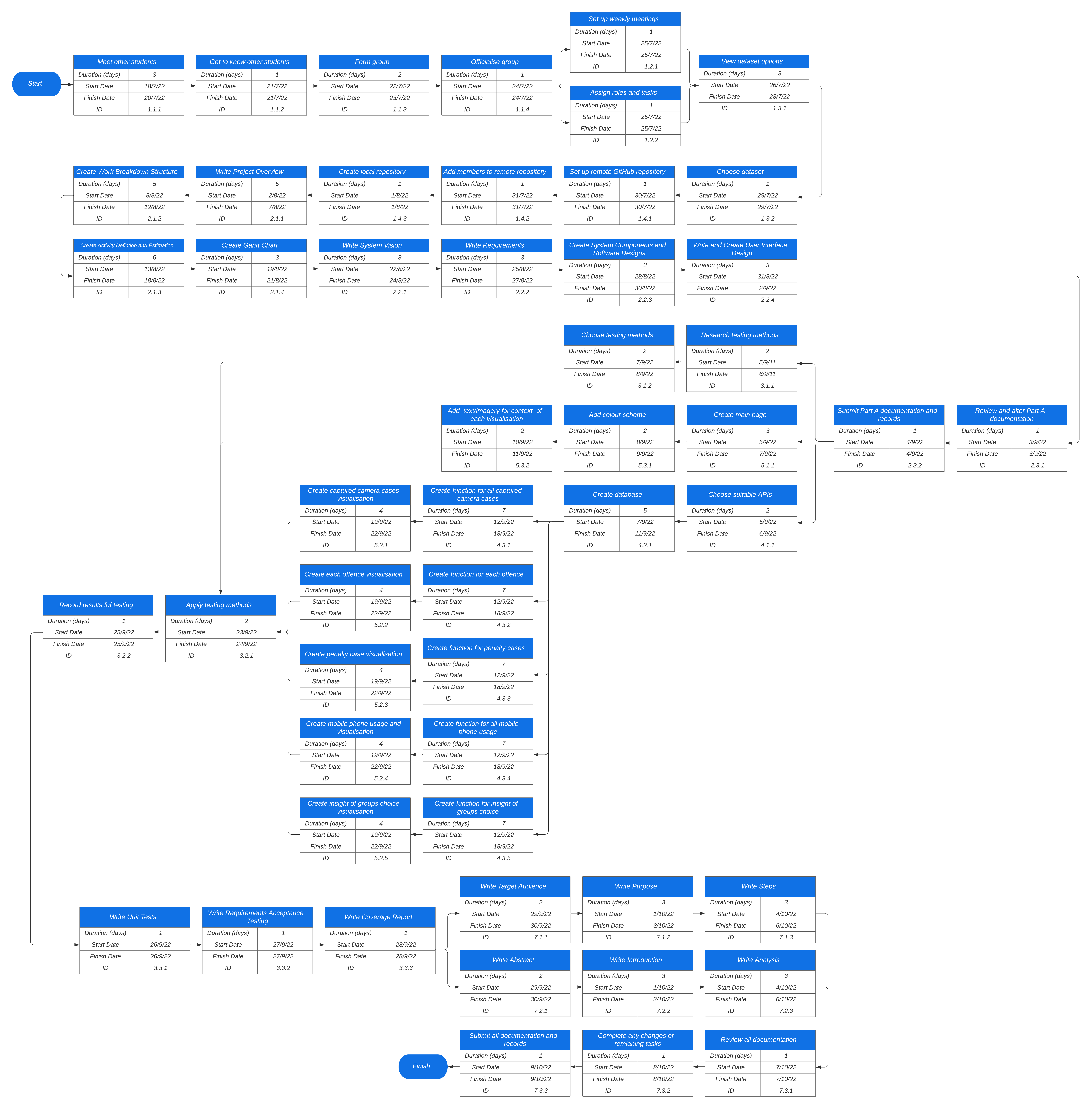


Figure – NTPT Precedence Diagramming Method

Figure 2 represents each activities duration, start time, finish time, identification, and relationships.

# Gantt Chart

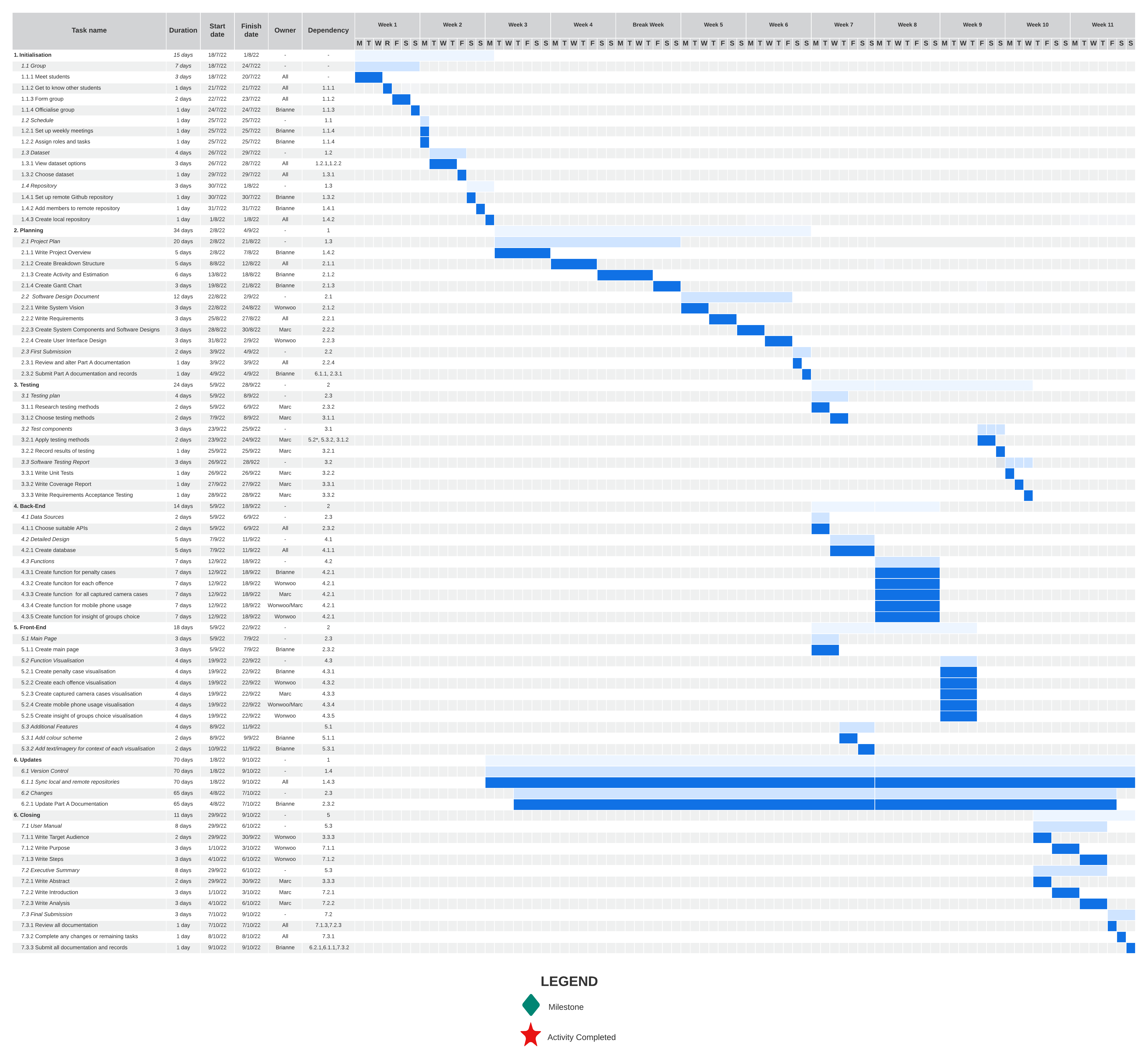


Figure - Gantt Chart