Project Plan

Traffic Penalty Management Software

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# Introduction

## Background

## Scope

## Document contents

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

# Work Breakdown Structure

*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.*

**Initiation**

Dataset

Evaluation

Visual design

Structural Design

Update plan

Weekly status report

Use cases

Software requirementsts

User requirements

Requirement specifications

**Analysis**

Time estimation and budget

Scheduling

Work Breakdown Structure

Scope statement

**Project** Planning

UI design

Wireframe

**Traffic Penalty Software Management**

**Design**

**Controlling**

# 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.*

**3.1 Initiation**  
The initiation stage is the first phase of the project management lifecycle, where the project's objectives, scope, stakeholders, and initial planning are defined. The project aims to develop a machine-learning model for predicting traffic penalty. The two key activities in this initiation stage are "Datasets" and "Evaluation."

Activity 1: Datasets Gathering Objective: The purpose of this activity is to collect and assemble the necessary datasets required for training and testing the machine learning model. The tasks in this activity include:

* 1. **Identify Data Sources:** Collaborate with relevant departments and stakeholders to identify potential data sources. This could include sales data, customer behaviour logs, product information, and demographic data.
  2. **Data Collection:** Gather the identified datasets from various sources, ensuring data accuracy, relevance, and completeness.
  3. **Data Quality Assurance:** Perform data validation and cleansing to identify and rectify inconsistencies, errors, or missing data points.
  4. **Data Storage and Organization:** Create a centralized data repository with proper organization and categorization for easy access during the model development phase.
  5. **Data Documentation:** Document the metadata and characteristics of each dataset, including its origin, format, structure, and any preprocessing steps performed.

The deliverables from this activity are as follows:

* Comprehensive datasets with relevant customer behaviour and product data.
* Documented data sources, attributes, and any data preprocessing steps.

Activity 2: Evaluation Objective: This activity involves evaluating the feasibility, potential risks, and alignment of the project with organizational goals. The tasks in this activity include:

1. **Feasibility Assessment:** Analyse the technical, financial, and operational feasibility of the project. Assess the available resources, expertise, and infrastructure required for successful model development.
2. **Risk Identification:** Identify potential risks and challenges that could affect the project's progress or outcome. These could include data quality issues, resource constraints, technical complexities, and external factors.
3. **Stakeholder Alignment:** Engage key stakeholders to ensure their understanding of the project's objectives and to gather their input regarding expectations, requirements, and concerns.
4. **Project Charter:** Create a preliminary project charter outlining the project's scope, objectives, deliverables, high-level timeline, and initial resource allocation.
5. **Cost-Benefit Analysis:** Perform a preliminary assessment of the potential benefits the project could bring compared to the costs and resources required.

From this activity, our deliverables are:

* Feasibility analysis report detailing technical, operational, and financial feasibility.
* Risk register outlining identified risks and potential mitigation strategies.
* Stakeholder input and expectations documented.
* Preliminary project charter with key project details.
* Cost-benefit analysis report.  
  1. **Project**
  2. Analysis
  3. Design
  4. Controlling

# 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.*