Project Plan

<Project Name>

Student Names

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# Introduction

## Background

The "Victoria State Accident Data Analysis and Visualization Tool" is a project aimed at developing a user-friendly software application for analyzing and visualizing accident data in the Victoria state of Australia. The project leverages the available dataset from Kaggle containing information about accidents, their types, causes, and other relevant details. The goal of this tool is to provide users with insights into accident trends, factors contributing to accidents, and patterns related to accidents in the specified time periods.

## Scope

The scope of this project encompasses the design and implementation of a data analysis and visualization tool. The tool will allow users to interact with the accident dataset and perform various analyses and visualizations. Users will be able to select specific time periods, accident types, and other parameters to retrieve meaningful insights from the data. The tool will also offer an additional analysis feature to explore trends related to alcohol's impact on accidents.

## Document contents

This document serves as the project plan for the Victoria State Accident Data Analysis and Visualization Tool. It outlines the tasks, timeline, and deliverables for the project's design and implementation stages. The project plan is organized as follows:

Section 2: Work-Breakdown Structure (WBS)

- Section 3: Activity Definition and Estimation

- Section 4: Gantt Chart

- Section 5: Git Log

- Section 6: Other Supporting Documents

- Section 7: Conclusion

This project plan will guide the project team throughout the development process, ensuring tasks are properly defined, estimated, and tracked. Regular updates will be made to the Gantt chart and Git log to reflect the progress made and adjustments to the timeline. The ultimate goal is to deliver a robust and user-friendly data analysis tool that fulfills the requirements outlined in the Software Design Document.

The subsequent sections of this document provide detailed information about the various aspects of the project plan, including task breakdown, time estimation, and the overall timeline for project completion.

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

# Work Breakdown Structure

1. Project Initiation

1.1 Understand Dataset

1.2 Define Project Goals and Scope

1.3 Form Project Team

2. Requirements and Analysis

2.1 Gather Dataset Details

2.2 Identify Analysis and Visualization Needs

2.3 Define Functional and Non-functional Requirements

3. User Interface Design

3.1 Create Wireframes for User Interface

3.2 Design User Interaction Flow

3.3 Define UI Components and Layout

4. Software Architecture

4.1 Select Programming Language and Framework

4.2 Design System Components (Frontend, Backend)

4.3 Define Data Storage and Retrieval Approach

5. Implement Data Analysis Features

5.1 Develop Accident Information Display

5.2 Implement Accidents by Hour Chart

5.3 Integrate Accident Filtering by Type

5.4 Build Alcohol Impact Analysis

6. Additional Analysis Feature

6.1 Design and Implement Custom Analysis Feature

7. Testing and Quality Assurance

7.1 Unit Testing for Individual Components

7.2 Integration Testing of Modules

7.3 User Acceptance Testing

8. Documentation

8.1 User Manual Preparation

8.2 Software Design Document Update

8.3 Testing Report Compilation

9. Project Management

9.1 Regular Team Meetings and Progress Updates

9.2 Maintain Git Repository and Version Control

10. Project Review and Finalization

10.1 Review Project Deliverables

10.2 Refine User Interface and Functionality

10.3 Final Testing and Bug Fixing

11. Submission Preparation

11.1 Compile Required Documents

11.2 Review and Ensure Completion

12. Project Submission

Note: Each subtask can be further broken down into detailed steps, and the hierarchy can be adjusted as needed. This WBS outlines the major tasks involved in the project, covering scope-related activities. The subsequent "Activity Definition" section will provide more detailed time-related breakdowns.

*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.*

# 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.*