Project Plan

<Project Name>

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# Introduction

## Problem Background

Sydney becomes as an important node within Airbnb's environment in the constantly changing world of international housing. With Sydney holding the fourth position in the worldwide listings hierarchy in 2016, Sydney continues to be a popular destination for Airbnb fans. The Sydney Airbnb Dataset, a sizable collection of data on homestay listings, served as the inspiration for this research. The project seeks to make use of this dataset in order to reveal the complex interactions linking Airbnb's effect with Sydney's many neighbourhoods.

## Scope

We're focusing on specific tasks related to data analysis, like figuring out vibes in different neighbourhoods and spotting trends. By narrowing its scope, the project seeks to develop a powerful data analysis tool that takes the form of software and is designed to interact with the complexities of the Sydney Airbnb Dataset. Notably, the initiative does not aim to create a standalone Airbnb platform. Instead, creating a tool capable of coordinating analytical efforts is the focus. These projects, in particular, focus on identifying the distinctive characteristics of various neighbourhoods and identifying historical trends engrained in the dataset.

## Document contents

This document serves as the project plan for the Sydney Airbnb Dataset 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 fulfils 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.

# 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

# 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.*