Project Plan

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# Introduction

This report gives a summary of the Airbnb Sydney dataset, which details the listing activity of homestays in Sydney, New South Wales, Australia. The information is updated every month as part of the Inside Airbnb effort. This report will provide an overview of the problem context, scope, and document contents in relation to this dataset.

## Background

Since 2016, Sydney has been one of the top cities in the world for Airbnb listings. In-depth information on listings, calendar data, reviews, neighbourhood data, and summary metrics have all been gathered to better learn this trend and examine the mechanics of the Sydney Airbnb industry. To better understand Sydney's hospitality sector, this dataset offers a useful resource for a range of stakeholders, including scholars, lawmakers, and Airbnb hosts.

## Scope

This report's objective is to give a general overview of the Airbnb Sydney dataset. It gives an overview of how this data may be utilised for research and visualisation as well as a summary of the data types and their contents.

## Document contents

Sydney has been among the top cities in the world for Airbnb listings since 2016. This dataset, which was made accessible as part of the Inside Airbnb effort, contains a wealth of data about Sydney's homestay listing activity. Understanding this dataset can help us gain knowledge about the dynamics of the homestay industry, price patterns, host behaviour, and the overall effect of Airbnb on the city's housing stock.

This document is structured to cover following areas:

1. Work Breakdown structure

On this section involved the major task and activities in working with Airbnb Sydney dataset. A WBS helps to manage and organize the project.

1. Activity Definition & Estimation

The activity Definition and Estimation defines each activity and estimates the required time of completion and helps to provide established days.

1. Gantt chart

Gantt chart virtually presents the project timeline based on the duration of each activity. This chart helps in assessing project management and tracking progress.

# Work Breakdown Structure

We will describe the main roles and actions involved in working with the Airbnb Sydney dataset in this section. A hierarchical representation of the project duties is provided by the work breakdown structure (WBS).

A diagram of software design process

Description automatically generated

# Activity Definition & Estimation

Here are the specified tasks necessary for your project, along with estimates for how long each action could take, based on the submitted Work Breakdown Structure (WBS):

1. Planning
   1. Project Plan (3 weeks)

We develop the comprehensive project plans which outline the strategy, objectives and approach for the project which include the project scope, goals, schedule and budget.

* 1. Scope (4 weeks)

We clearly indicate what is included and what is omitted to establish the project's boundaries.

* 1. WBS (2 weeks)

Establish a Work Breakdown Structure (WBS) to divide the project's duties and activities into more manageable, smaller ones. Management of projects and progress tracking are built on this.

* 1. Activity Definition (2 weeks)

Specify and record the tasks that must be carried out for the project. This involves outlining the duties needed for each project phase.

* 1. Scheduling and Gantt chart (3 weeks)

A Gantt chart is used to create a thorough project schedule. According to dependencies and the availability of resources, this schedule assign timeframes to each action.

1. Software Design Document
   1. System Vision (5 weeks)

We define a high-level vison and goals for the software design system. The system intended to achieve the core function and Its performance.

* 1. Formal Requirements (6 weeks)

We gather the required functional and nonfunctional document which ensure clarity towards the projects.

* 1. Use Cases (3 weeks)

To define how the system communicates with users and external entities, we provide in-depth use cases. These helps understanding system behaviour and user interactions.

* 1. Software Design / Components (7 weeks)

Design the software and their components including database, module and their relations.

* 1. Interface Design (4 weeks)

We create the system prototype for the user interface and experience.

1. Implementation
   1. Test Report (3 weeks)

This is the tasting phase of the project software. We test different cases, data and different environment required by the clint.

* 1. Data Processing (7 weeks)

In this data processing we collect data ,transformation if any changes necessary and storage.

* 1. User Defined Data Recall (6 weeks)

We implemented data retrieve and recall according to project objectives.

* 1. Data Visualization (6 weeks)

Use of data visualisation tools to show data in a clear and enlightening manner.

* 1. GUI Implementation (7 weeks)

We develop the graphic user interface(GUI) for the software, which will be simple and user friendly.

1. Controlling
   1. Progress Meetings (4 weeks)

We conduct the regular meeting to review the project status, address any issue and make decision.

* 1. Status Reports (3 weeks)

To keep stakeholders updated on project progress. We prepare and distribute status report.

* 1. Update Plans (3 weeks)

This is based on the changing requirement, Continually revise the project plan to reflect new requirements or situations.

* 1. Update Schedule (2 weeks)

Any delays or modifications to the project's timetable is included in the project schedule according to priorities and dependencies.

* 1. Version Control (2 weeks)

Utilise version control tools to keep track of modifications to project code and documentation.

1. Closing
   1. Executive Summary (3 weeks)

we create an executive summary that gives a brief overview of the project's goals, results, and significant results.

* 1. User Manual (6 weeks)

User Manual is prepared to guide how to use the software effectively.

* 1. Self-Assessment of Schedule (2 weeks)

Self-Assessment is required to identify any are of improvement and guidance for this project.

The accuracy of these time estimates will depend on the resources available to the project as well as the complicated nature of each activity. As the project progresses and we obtain a better idea of the real-time needed for each action, it is crucial to review and revise these estimates. Your Gantt chart, which will give a visual depiction of the project timetable, will be made using these activities.

# Gantt Chart

Based on the expected durations for each task, the Gantt chart below illustrates the project timeframe. About 60 days are needed to complete the job.

A screenshot of a computer

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The Gantt chart shows how tasks are to be completed and their dependencies, enabling effective project control and monitoring performance. The chart is also useful for effectively organising and imparting resources to fulfil project deadlines.