Project Plan

Sydney Airbnb Data Analysis Tool

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# Introduction

## Background

Sydney Airbnb open dataset is data related to inside Airbnb initiative which shows listing of homestay activities in Sydney. It contains data about homestay listings, calendar dates of listings, reviews, summary of listing, reviews summary and neighbourhood information.

Main motivation of collecting this data is to find out how Airbnb is affecting neighbourhoods, busy times to visit Sydney, vibe of an area, cost of stay and reviews of neighbourhood. Even, it accesses whether there is increase in visitors with increase in Airbnb rooms.

**The company collecting the data requires a program with features including:**

* Present listings information in a specified suburb when user selects a particular time period.
* Create a chart displaying property prices for a selected time period.
* Show listings with user entered keyword like pool.
* Show information about reviews (total number).
* Show chart depicting good things about a listing.
* Show number of times a property has been used.

## Scope

The scope of this document is to give detailed information about how the above program will be developed. It includes a Gantt chart depicting time it will take to complete each part of the program. This will be useful to track the progress of the project. This document is quite useful as it includes estimates of time for each part of the project, this will allow company to present it to its stakeholders and let them know how much time it will take to develop the program.

## Document contents

This document comprises work breakdown structure, activity definition and Gantt chart. Work breakdown structure shows a decomposition of the work involved in a project. Activity definition includes detailed activities that the project team and stakeholder must perform to produce the project deliverables. It also includes time estimates for each activity.

Gantt chart is used to display project schedule information by listing project activities and their start and finish dates in a calendar format.

# Work Breakdown Structure

A diagram of a data analysis tool

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# Activity Definition & Estimation

**Data Analysis Tool Project**

**Step 1 – Gathering Requirements:**

* Conduct interviews and surveys, with stakeholders for a duration of two weeks.
* Document and review the gathered requirements within two weeks.
* Validate the requirements by seeking feedback from stakeholders, which should take one week.
* **Defining Objectives of the Tool:**
* Spend one week defining the goals and objectives of the project.
* Align these objectives with the needs expressed by stakeholders within (1 week)
* **Creating a Project Plan:**
* Develop a project plan over a span of three weeks.
* Refine this plan in collaboration with the team (1 week)
* **Allocating Resources:**
* Identify and allocate resources required for the project (2 weeks)
* Ensure that these resources are readily available and prepared to be utilized (1 week)
* **Setting Deadlines and Milestones:**
* Define project milestones and deadlines (2 weeks)
* Establish a timeline, for the project taking around one week to complete.

**Step 2 – Design and Development:**

* **Designing a Sample User Interface:**
* Creating wireframes and mock-ups (2 weeks)
* Reviewing and finalizing the UI design (1 week)
* **Developers Write Source Code, for the Program:**
* Writing code for the core functionality (4 weeks)
* Conducting code review and optimization (2 weeks)
* **Adding Modules to the Code:**
* Developing and integrating modules (3 weeks)
* Testing module integrations (2 weeks)
* **Integration Testing:**
* Planning integration testing strategy (1 week)
* Executing integration tests (2 weeks)
* Addressing and resolving integration issues (1 week)

**Step 3 – Testing:**

* **Test Planning:**
* Developing a test plan (2 weeks)
* Reviewing and approving the test plan (1 week)
* **Test Execution:**
* Performing test cases execution (4 weeks)
* Recording and reporting test results (2 weeks)
* **Test Reporting and Defect Management:**
* Documenting and prioritizing defects (2 weeks)
* Coordinating with developers to resolve defects (2weeks)
* **Test Closure:**
* Verifying the execution of all test cases (1 week)
* Preparing a test closure report (1week)

**Step 4 – Deployment and Maintenance:**

* **Software Release Process:**
* Get the software ready, for release (2 weeks)
* Perform a review (1 week)
* **Software Deployment:**
* Implement the software in production (2 weeks)
* Monitor its performance (1 week)
* **Software Maintenance:**
* Develop a plan, for ongoing maintenance (3 weeks)

Continuously monitor, update, and provide support as needed.

# Gantt Chart

Images below represent the Gantt Chart of the project.  
  
A table with text on it

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A graph with orange lines

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5.0 CHANGES MADE

The following changes were made in actual GUI as to what was mentioned in Software Design Document:

1. User Interface is implemented with changes. These changes are giving title at header of the application which is Sydney Airbnb Dataset Analysis Tool. This was earlier in the menu section. This is done to have space for buttons which allow users to navigate to other pages.
2. In the menu, new button is added of name UserSpecific, which allows users to enter the keywords and search listings in a date range. Earlier, it was just mentioned in listings button. This is created as a separate page to allow users to give option to separate if they want to find specific rooms.