**Project Plan**

**AJJ BNB**

**Student Names:**

**Ashley Pergoliti (s5311775)**

**Jonas Sajonas (s5284977)**

**Jodie Thomson (s118338)**

Table of Contents

[1.0 Introduction 3](#_Toc46748287)

[1.1 Problem Background 3](#_Toc46748288)

[1.2 Scope 3](#_Toc46748289)

[1.3 Document contents 3](#_Toc46748290)

[2.0 Work Breakdown Structure 4](#_Toc46748291)

[3.0 Activity Definition & Estimation 5](#_Toc46748292)

[4.0 Gantt Chart 6](#_Toc46748293)

# Introduction

**Should contain an overview of the project (from a project management/component perspective)**

The project proposal to AJJ BNB is contained within this document and the accompanying software design document. The proposal is to create a software solution that extracts and analyses the public Sydney Airbnb data set hosted on kaggle.com. The solution will enable the company to become data-driven and make informed insights and decisions on the Airbnb spaces and trends to compete in a challenging market.

## Background

In today's data-driven business landscape, utilising gathered data means gaining the edge in the competition with rivals. AJJ BNB is at the forefront of the accommodation rivalry in Sydney, they will benefit the most by staying ahead of the competition. Sydney is a sought-after destination for travellers, tourists, and businesses alike. At the same time, Airbnb is a popular choice for accommodation and a lucrative investment choice for property owners. Kaggle.com provides access to Sydney Airbnb Open Data. The data provided includes detailed listings, pricing, calendar variances, reviews, and more.

The proposed software aims to provide a user-friendly, quick access point to specific information and trends about the Sydney Airbnb market. Users can receive charted or listed data tailored to their specific requirements in as few steps as possible.

## Scope scope and outline of the project management document

The scope of this document covers the project management aspect of the proposed project. The supporting documentation included has been developed to plan out and structure the project tasks as well as allocate time estimates required to produce individual deliverables as well as the duration of the entire project. The project management documents are presented as deliverables themselves and are then used to staff and fund the project as well as provide phase timing to the client.

The included Work Breakdown Structure covers all the deliverables for the project and lays them out in sections including project management, software design, software implementation, testing and executive summaries. Each Section has a group of sub sections shown beneath.

The Gantt chart shows a visual representation of the project’s timeline. The time estimates for each task are highlighted as well as showing where tasks are occurring concurrently. The Gantt chart shows the overall time commitments as well as the time required to perform each part. The Gantt chart allows us the find the critical path to the project identifying which tasks must be completed before others can commence

Can we use this in the system vision section?

This system will take the data from Kaggle.com and use the files listings\_dec18.csv and reviews\_dec18.csv. This data will be used in a graphical user interface, paired with user selected input, to output the data on screen, in text format, and chart format.

The user will be able to select a start and end date on two separate calendars, and then type a property name, and then see the data filtered by that criterion, in the form of a chart. This data will be showing property prices. The user can select the start and end date, and input a suburb name, and then see the records of that data filtered by that criterion. This will show the properties in those suburbs in that date range. The user can input a list of keywords, and then select a start and end date, and see all properties that meet that criterion.

The user will be able to input a suburb and select a rating and will be able to see all data that matches that criterion. This data will be displayed in text form, and in chart form. The user will be able to input a suburb, and then see all listings that mention cleanliness. These keywords can be predefined before deployment of the system.

## Document contents

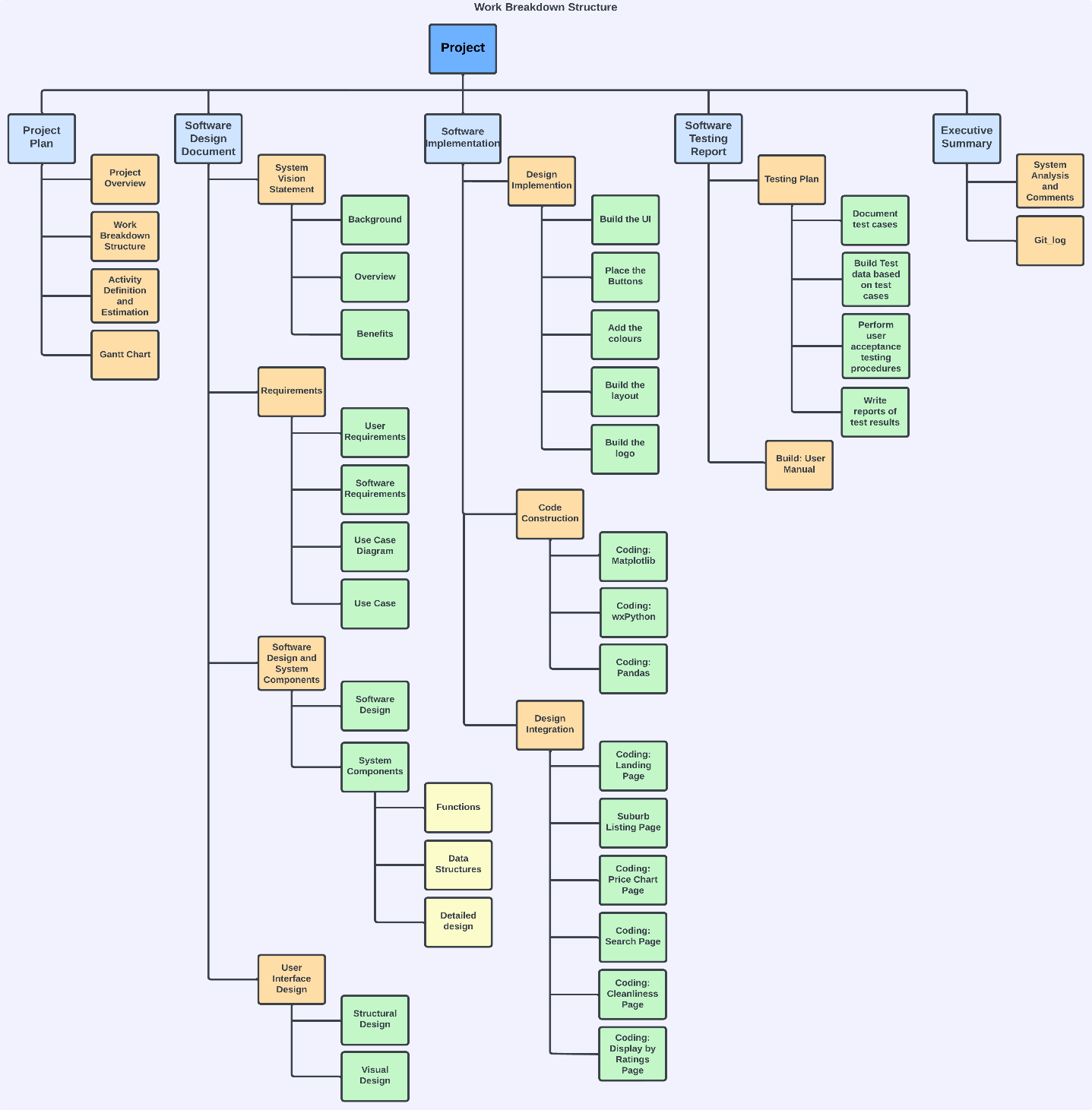
This document includes:

* + Background
  + Scope
  + Work Breakdown Structure
  + Activity definition and estimation
  + Gantt Chart.

This document contains the project plan. The software program details are included in the software design document, which will further elaborate on the software solution. A higher definition version of the Gantt chart will also be made available.

# Work Breakdown Structure

Copy new version – text top left corner



# Activity Definition & Estimation

# adjust total times for each section as things over lap

Keep colours?

<do we need to add assign proj manager, develop proj charter, meet with stake holders?>

|  |  |  |  |
| --- | --- | --- | --- |
| **Gantt Number** | **Item** | **Activity Details** | **Time Estimation** |
| **1** | **Project Plan** |  |  |
| 1.1 | Project Overview | Outline of the project | 1 days |
| 1.2 | Work Breakdown Structure | Formulate the WBS hierarchy | 2 days |
| 1.3 | Activity Definition and Estimation | Describe the activities and duration estimates | 2 days |
| 1.4 | Gantt Chart | Display schedule and progress of tasks | 2 days |
| **2** | **Software Design Document** | **? Round up to weeks?** |  |
| **2.1** | **System Vision Statement** | **Declare the purpose, goals and value the system aims to provide** |  |
| 2.1.1 | Background | !Why the software solution is being made??? | 2 hours |
| 2.1.2 | Overview | Scope of the system | 2 hours |
| 2.1.3 | Benefits | Benefits of the software to the company | 2 hours |
| **2.2** | **Requirements** |  |  |
| 2.2.1 | User Requirements | Description of what the user expects from the system | 1 day |
| 2.2.2 | Software Requirements | Description of what the software can deliver | 1 day |
| 2.2.3 | Use Case Diagram | Visual representation of interactions between actors and system | 4 hours |
| 2.2.4 | Use Cases | Description of how users interact with the system | 1 day |
| **2.3** | **Software Design and System Components** |  |  |
| 2.3.1 | Software Design | Diagram/hierarchy that shows | 1 day |
| 2.3.2 | System Components | The design of the different aspects of the app |  |
| 2.3.2.1 | Functions | List functions required | 2 days |
| 2.3.2.2 | Data Structures | Layout of …. Diagrams? | 2 days |
| 2.3.2.3 | Detailed design | pseudocode | 5 days |
| **2.4** | **User Interface Design** |  |  |
| 2.4.1 | Structural Design | Inc hierarchy | 1 day |
| 2.4.2 | Visual Design | Inc wireframes | 4 days |
| **3** | **Software Implementation** | **The implementation of the software** |  |
| **3.1** | **Design Implementation** |  |  |
| 3.1.1 | UI Design | User interface design | 3 days |
| **3.2** | **Code Construction** | **The construction of all aspects of the code** |  |
| 3.2.1 | Landing Page Code | The home page of the application | 4 days |
| 3.2.2 | Matplotlib Code | The code for creating the graph | 3 days |
| 3.2.3 | Tkinter Code/wxPython | The code for creating the UI design of the app | 3 days |
| 3.2.4 | Pandas Code | The code for interacting with Excel documents | 3 days |
| **4** | **Software Testing Report** |  |  |
| 4.1 | Testing Plan | Design testing | 5 days |
| 4.2 | Ongoing testing |  | ???? |
| 4.3 | User Manual | Create the Manual for users | 7 days |
| **5** | **Executive Summary** |  |  |
| 5.1 | Analysis and Comments | Project report analysis and | 1day |
| 5.2 | Git\_log | Summary of the Git log | 1hr |
|  |  |  |  |

# Gantt Chart add copy here as well as sep attach Talk about the critical path in intro here

*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.*