Griffith University

7810ICT Software Technologies Assignment

Project Plan

Airbnb data analysis software

**Group Members:**

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# Introduction

## Background

*The aim of this project is to develop a data analysis and visualization tool using a project management methodology called Scrum because of its benefits in terms of being able to respond quickly to change, improving team collaboration and customer satisfaction. This tool will be used to analyse open data from Airbnb in Sydney, a global home rental platform, and Sydney, a popular tourist destination, has a large number of Airbnb listings. Hosts and renters alike face challenges such as setting or finding the right price and knowing which areas are most popular. This tool aims to provide valuable insights to hosts and renters by analysing and visualizing this data.*

## Scope

The scope of this project includes:

* Data preprocessing: cleaning and organizing raw Airbnb data.
* Data analysis: an in-depth analysis of price, location, and other relevant factors
* Data visualization: developing visualization tools to present analysis results in the form of charts and maps.
* User interface design: create an intuitive and user-friendly interface for the tool.
* The expected outcome is a complete software tool that allows users to select different parameters (e.g., timeframe, region, etc.) for analysis and view clear and accurate visualization results.

Not included in this project:

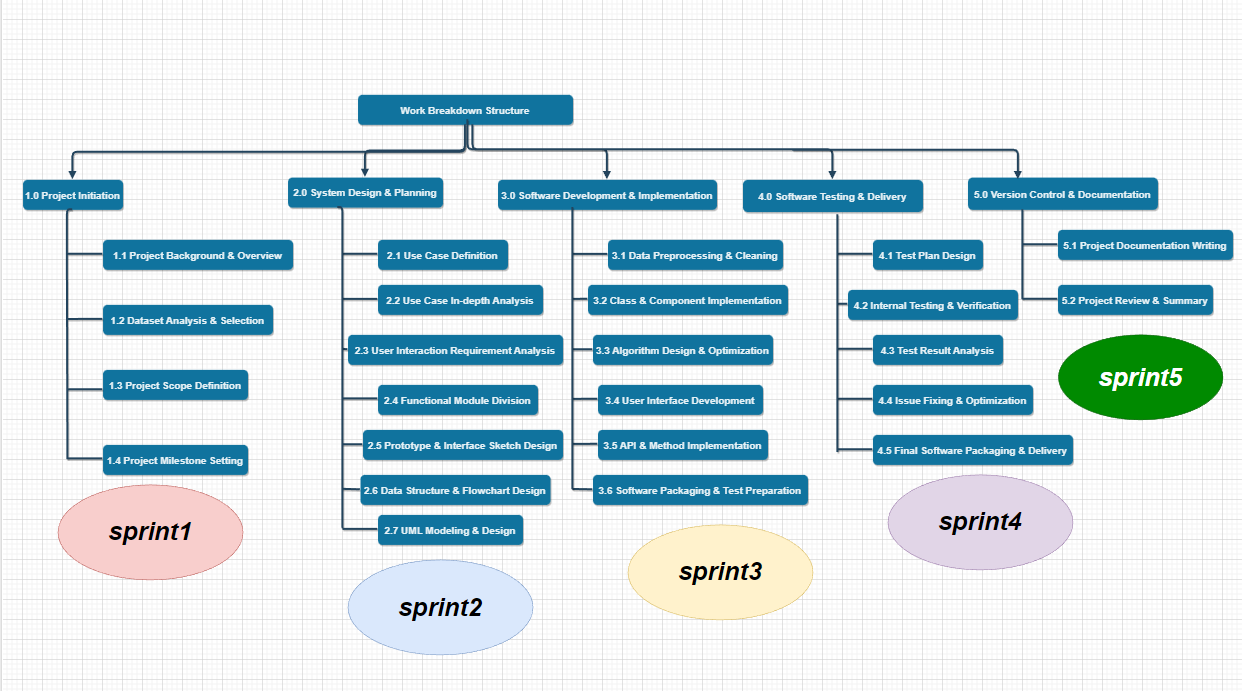
* Mobile application development
* Real-time data updates or integration with other external data sources

## Document contents

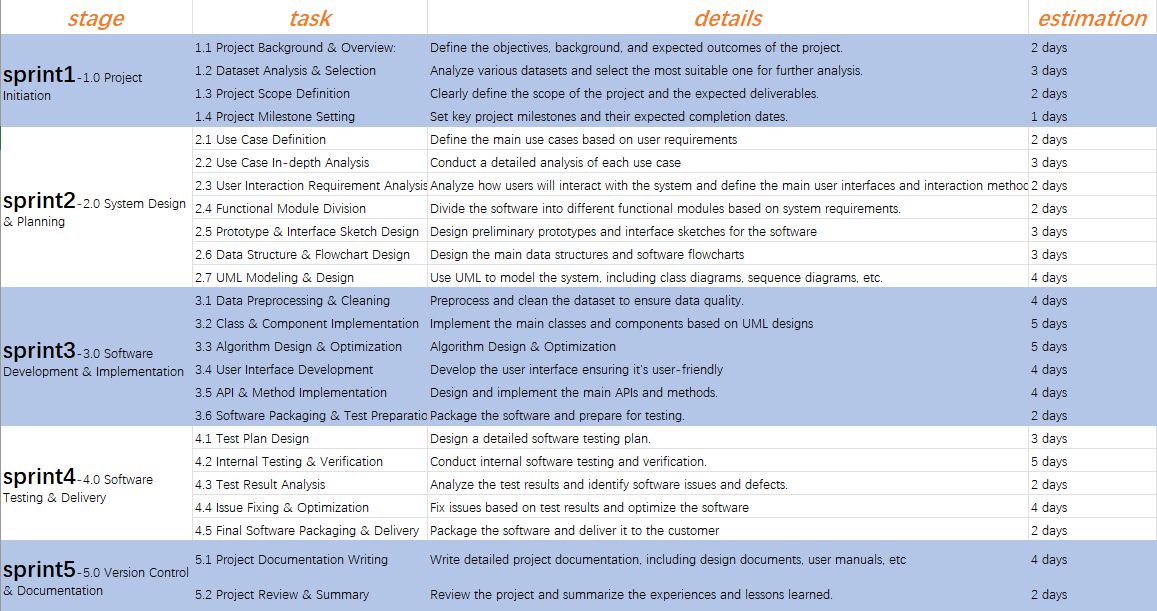
This document will include the following:

* Background and scope definition of the project.
* Work Breakdown Structure (WBS) detailing all the different activities and tasks of the project.
* Activity Definitions and Estimates, defining clear content and responsibilities for each task or activity and providing time estimates.
* Gantt charts, showing the project's timeline and schedule.
* Project Management Tools: Trello (<https://trello.com/b/lI8ABMFT/assignment-part-b>)
* Datasets: Contains all datasets applied to the database developed by the software (calendar\_dec18.csv, listings\_dec18.csv, reviews\_dec18.csv).
* Program: Code used for software development and testing, and some resources used for UI design.
* Executive Summary: The document instructs to analyze a selected dataset using software and present the results of all required features (totaling 5 sections) in an executive summary, incorporating software screenshots along with analysis and commentary on the data.

# Work Breakdown Structure

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# Activity Definition & Estimation & RACI Chart

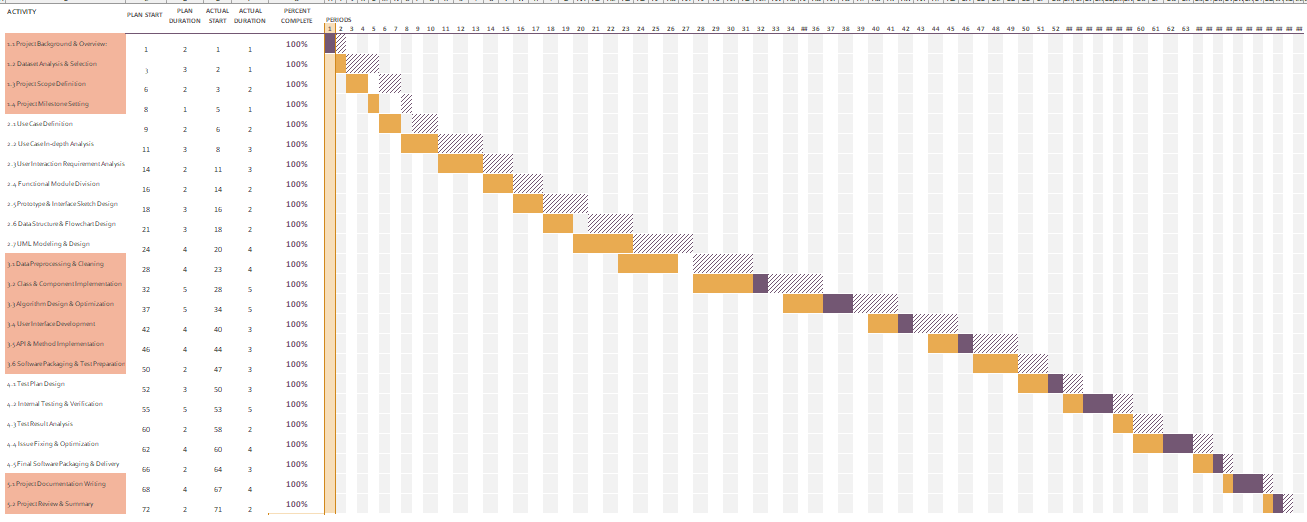
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Note: Use Git for version control from the beginning of the project to track all changes

表格

描述已自动生成

# Gantt Chart

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