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| Sydney Airbnb Executive Summary |
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# Abstract

A 100 to 150 word executive summary of your findings. Do this last.

# Introduction

Explains the purpose of this report. Include the date range covered, and the different analysis tasks performed.

This report serves as a project overview and scope document for the creation of an application under the Sydney Airbnb initiative. The primary purpose is to provide a clear understanding of the project's goals, the data source, and the functionality of the software application. It also outlines the tasks assigned to the ICT team, the expected outcomes, and the estimated timeframes for completion.

This document explicitly mentions the specific date range covered by the data i.e., 17th Dec 2018 to 6th Dec 2019, but it mentions that the application will allow users to select a "user-selected period" for various analysis tasks. The actual date range would be determined by users when they interact with the application. The user also inputs the specific suburb that they are looking into to restrict the output result to the specific location of interest, they can also select the price range that will work with their budget to have a filtered result. In this case, there is an unspecified price range, as the dataset has a vast pricing range while the user can specify it for themselves individually.

The scope of the project is to develop a user-friendly software application that can perform the mentioned analysis tasks below. The focus of the application is on data retrieval and visual display, allowing users to define search parameters and analyze records containing specific keywords.

Technologies used to build the application include Python 3, wxBuilder (a GUI toolkit for Python), SQL (for database operations), and Excel (for data analysis and visualization).

In summary, this report sets the stage for the development of a software application focused on Airbnb data analysis in Sydney, detailing its purpose, scope, analysis tasks, team, and schedule.

Analysis 1: Listings in a Specific Suburb

The application will provide information on all Airbnb listings in a specified suburb for a user-selected period.

Based on the requirements of your dataset, put the results of your analysis of a 12 month date period for each of the required functionalities in these sections. Change the title names to reflect your dataset and the analysis being performed. You may include images from your program as well as your own description of the results.

Analysis 2: Distribution of Prices Chart

Users can select a period, and the application will generate a chart showing the distribution of property prices in specified suburbs.

Analysis 3: Records by Keywords

Users can enter keywords (e.g., "pool," "pet"), and the application will retrieve records containing those keywords within a specified period.

Analysis 4: Comments related to Cleanliness

The application will retrieve customer comments related to cleanliness, and multiple keywords may be associated with cleanliness.

Analysis 5: Number of Listings in a Specific Suburb

Users can select a period, and the application will report the number of listings in a specified suburb.