**Project1 Draft**

**Project Title:** Western Australia Airbnb Data Analysis

**Team Members:** Bharat, Farhan, Nick, Lin

**Project Description:** Use WA data for Airbnb and other data to uncover some valuable trends for tourist industry.

**Brainstorms:**

**When:** 2019 onward (focus on post-covid environment), narrow down minimum of nights to 10 days. (Tourist purpose)

Background Search: immigration policy/boarding open time

**Where:** Centre on Perth with radius 60km

Background Search: gmaps

**Why:** In post-covid, the environment of economic, trading mode, the way to travel, etc have changed. We would like to know what the new traveling mode is in our living area.

**Who:** People who use Airbnb to book an accommodation normally are on travel purpose and costing is their priority to consider about.

**How:**

Basic analysis:

1. Based on neighbourhood, analyse average price, availability, and minimum nights.

Bar chart: average price, average availability, minimum nights

1. Analyse top 3 number reviews about the change from pre-covid to post covid by the review’s gaps.

Line chart:3 lines

1. We know 81% of list are apt/entire house. (http://insideairbnb.com/western-australia)

Scatter plot: Group by types to understand the relationship between price and availability.

Advanced analysis:

1. For the purpose of uncovering valuable tread, using heatmap to know where their favourite traveling area is.

Gmaps.heatmap: by number of reviews

1. Import list.csv &review csv, group by seasonal, use heatmap to recommend local government host seasonal festivals

Gmaps.heatmap: by number of reviews based on seasons

**Gantt Chart**

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|  | **8/8** | **9/8** | **10/8** | **11/8** | **12/8** | **13/8** | **14/8** | **15/8** | **16/8** | **17/8** | **18/8** |
| **Brainstorm** |  |  |  |  |  |  |  |  |  |  |  |
| **Background Search** |  |  |  |  |  |  |  |  |  |  |  |
| **Basic Analysis** |  |  |  |  |  |  |  |  |  |  |  |
| **Meeting for Basic Analysis** |  |  |  |  |  |  |  |  |  |  |  |
| **Advanced Analysis** |  |  |  |  |  |  |  |  |  |  |  |
| **Meeting for result** |  |  |  |  |  |  |  |  |  |  |  |
| **PPT producing** |  |  |  |  |  |  |  |  |  |  |  |
| **Presentation** |  |  |  |  |  |  |  |  |  |  |  |