# **Team Members**

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# **Introduction**

For this assignment, we were tasked with creating a GUI for exploring real-world properties available for temporary rent in London from AirBnB. The developed application features four panels that can be switched between, these include: A welcome panel, an interactive map panel, a statistics panel, and a <4th panel name> panel (details on each panel are discussed in the following section). Unit tests were also provided to test and verify that the functionality of the <insert 4th panel name> panel is as intended. Since we were working as a team, we made use of the university’s Github Enterprise system to organise the application’s files, having divided the workload of the development process to each team member.

# **GUI Functionality**

This section will describe the functionality of each panel featured in the application’s final state.

The user is first greeted with the welcome panel. This panel allows the user to select a price range for the properties that they would like to view using two drop-down boxes, labelled “From” and “To” to minimize ambiguity. Without selecting a price range, the user cannot switch to another panel using the application’s navigation buttons shown at the bottom corners of the application window. If the user selects a “From” value that is greater than their chosen “To” value, the application will generate a warning dialog to inform the user that their selection is invalid, disabling the navigation buttons and resetting the selected price range values to null. Finally, the central area of the welcome panel displays the main welcome message along with a reactive price range label that displays the user’s currently selected price range.

The next panel is the map panel, where a visual representation of London’s boroughs is shown by various hexagonal buttons, each of which can be interacted with to display more information about the properties within the selected borough. This additional information is displayed in a new window that displays the name, price, number of reviews and minimum number of nights a person can stay per property, shown as a table. Furthermore, the newly opened window provides a drop-down box that allows the user to select how they would like the properties to be listed, either by number of reviews, price, or alphabetically by host name. When selecting a row in the table of listings, another window opens to display the information about the selected listing along with the ability to view this listing on a map.

Following that, the statistics panel allows the user to view different property statistics. This panel features four statistics boxes, each of which having navigational buttons to allow the user to switch between the various statistics. The base statistics include: Average number of reviews per property, total number of properties, the number of entire home and apartment properties, and the most expensive borough (additional statistics that were also implemented are discussed in the next section). The application prevents the user from displaying the same statistic on different statistics boxes by skipping the duplicate statistic content when navigating.

NEED TO REVIEW

# **Additional Statistics**

This section describes the additional statistics that were implemented as part of the statistics panel.

TO BE COMPLETED

# **Fourth Panel**

This section describes the fourth panel’s functionalities.

TO BE COMPLETED

# **Unit Testing**

This section describes the unit tests used on the <insert class name> class.

TO BE COMPLETED

# **Known Bugs/Issues**

This section outlines the application’s known bugs/issues that are present in its final state.