Use case1

for customer

**Detailed listing information on map view**

Component

1. Database with listing information and location
2. User interface that allows users to select area
3. Map view that allows users to visualize all rooms location in this area

Use case2

for customer

**Recommendation top 10 rooms for customers**

Component

1. Database with guests’ review scores
2. User interface that allows users to input the info about the room
3. User interface that allows users to select the order of recommendations
4. Map view that allows users to visualize the recommendations’ location

Use case3

for landlord

**recommendation room price for landlord**

Componentx

1. Database with price of houses around it
2. User interface that allows users to input the info about the room to improve the accuracy of predicted price
3. Map view that allows users to visualize all houses or the similar rooms around it