

# Lab 6 Artifacts - team2345

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## Features (user stories) to Implement in Next Sprint:

### Listings data:

-**Feature 1:** As a user, I want less latency when analytics are calculated or recalculated.

-**Feature 2:** As a user, I want a more user friendly platform.

### GUI:

#### Home Page:

**MADRID BNB**  
Welcome!

Popularity | Room Distribution

Search  
Neighborhood...

Room Type ↓

Low Range \$...

High Range \$...

Search

## Home Page with Search Results:

**MADRID BNB**  
[Welcome!](#)

Popularity | Room Distribution

Search  
Neighborhood...

Room Type ▾

Low Range \$...

High Range \$...

Search

1.  
ID:  
Neighborhood:  
Room Type:  
Price:

2.  
ID:  
Neighborhood:  
Room Type:  
Price:

Avg Price for this Search Result:  
**\$50.75**

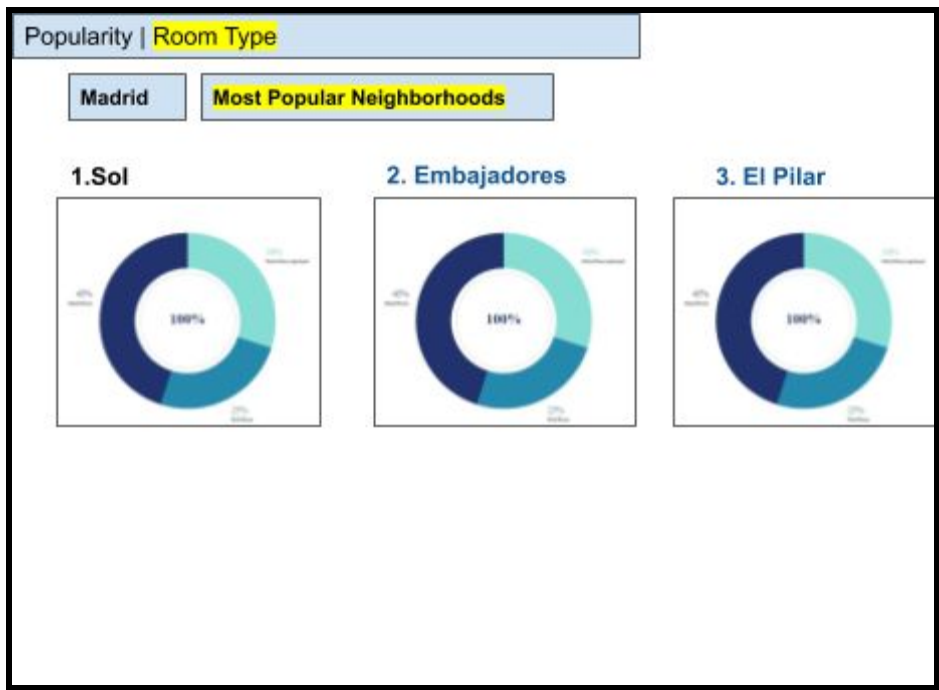
Cheapest Listings

Most Expensive Listings

1.  
ID:  
Neighborhood:  
Room Type:  
Price:

2.  
ID:  
Neighborhood:  
Room Type:  
Price:

Room Distribution Page:



## Add Listing Page:

### Add New Listing

**New Listing Addition  
Successful!**

## Test Cases:

- **Feature 1 Test Cases:** As a user, I want less latency when analytics are calculated or recalculated.
  - **Test case 1:** As a user, I click on the popularity tab.  
Correct Output: The front end displays all appropriate data on the Popularity tab with little to no latency.
  
- **Feature 2 Test Cases:** As a user, I want a more user friendly platform.
  - **Test case 1:** As a user, I go to the home page.  
Correct Output: The front end only displays the search bar and menu bar. After I click on “Search”, the price analytics show up on the sidebar separate from the search results.
  - **Test case 2:** As a user, I click on the “Add Listing” button from the home page.  
Correct Output: The button redirects to a new page and asks for the new listing inputs. After clicking on the “Enter” button, I receive a confirmation message saying that the listing was successfully added.
  - **Test case 3:** As a user, I click on the “Room Distribution” tab from the home menu.  
Correct Output: The tab will redirect to a new page. There are two buttons to choose which category I want to see room type distribution for. I click on the “City of Madrid” and a pie chart displays the percentages each room type in Madrid.

## To-Do List

### Done list of last sprint:

- Modified HTML file for popularity analytics.  
[finished by Valeria and verified by Krishcin]
- Modified HTML file for room distribution analytics.  
[finished by Valeria and verified by Krishcin]
- Modified CSS file for popularity analytics. (Part 2 Analytics)  
[finished by Valeria and verified by Krishcin]
- Modified CSS file for room distribution analytics.  
[finished by Valeria and verified by Krishcin]
- Modified container functionality to Popularity HTML file to display contents.  
[finished by Krischin and verified by Everyone]
- Modified container functionality to Room Distribution HTML file to display contents.  
[finished by Krischin and verified by Everyone]
- Implemented Angular Components to handle modified API call (Part 2 Analytics)  
[finished by Krischin and verified by Everyone]
- Implemented Angular Services to handle modified API call (Part 2 Analytics)  
[finished by Krischin and verified by Everyone]
- Set up API functionality to send new JSON with analytic data upon receiving GET Request  
[finished by Justin and verified by Everyone]
- Integrate API with Data Layer popularity analytic functions. (Part 2 Analytics)  
[finished by Justin and verified by Jeevan]
- Integrate API with Data Layer room distribution analytic functions. (Part 2 Analytics)  
[finished by Justin and verified by Jeevan]
- Implement backend functionality to calculate most popular listings in Madrid.  
[finished by Jeevan and verified by Justin]
- Implement backend functionality to calculate the most popular listings in the most popular neighborhoods in Madrid.

[finished by Jeevan and verified by Justin]

- Implement backend functionality to calculate room type distribution by percentage in the city of Madrid as well as in the most popular neighborhoods.

[finished by Jeevan and verified by Justin]

- Conducted and confirmed Feature 1, 2, and 3 Test Cases from Sprint-5

[finished by Jeevan and Justin and verified by everyone]

- Completed Sprint 5 Artifact

[finished by everyone and verified by everyone]

- Record Sprint 5 Demo

[finished by everyone and verified by everyone]

### **To-Do for next sprint:**

- **Implement a clean frontend framework**
- **Add the Pie Chart Framework**
- Store most up-to-date analytics in local data store
  - "top\_neighborhoods"
    - list of "popular\_n" objects of top neighborhoods in Madrid
  - "top\_listings"
    - list of "listing" objects of top listings in Madrid
  - "room\_dist\_data"
    - list of "room\_distribution" objects (starting with Madrid) of room distributions of madrid and top 3 neighborhoods in Madrid
- Incrementally update analytics based on changes in stored data
- Incrementally update average price of listing when user adds, edits, or deletes a listing
- Incrementally update three most expensive listings analytic when user adds, edits, or deletes a listing
- Incrementally update three least expensive listings analytic when user adds, edits, or deletes a listing
- Incrementally update three most popular neighborhoods analytic when user adds, edits, or deletes a listing

- Incrementally update three least popular neighborhoods analytic when user adds, edits, or deletes a listing
- Incrementally update room type distribution analytic when user adds, edits, or deletes a listing

**To-do if there's time:**

- Implement fourth drop down for room type - Shared room
- Add confirmation message when deleting, adding, and editing listings
- Implement add review function to web app
  - Reviews page with review post request /review
    - Json
      - {
        - "id": 0000 //id of listing to increment num reviews
      - }
  - Backend to receive post request and increment num reviews in csv
  - Backup/import