

# Where do I book an accommodation?

## Project Description

### Step1- Web Scraping

- Choose a city in the world on the condition that there are at least 50 accommodations to book in its neighborhoods.
- Choose a date for the trip.
- Scrape the data about the available accommodations for that city from three accommodation booking websites, e.g., Booking.com, Hotels.com, Expedia, Agoda, etc.
- What are the challenges in scraping the data? How do you store the scraped data for a further easy use?

### Step 2 – Data processing

- What are the data processing steps for having a proper dataset to be used in the next step?

### Step 3 – Exploratory data analysis (EDA)

Use the appropriate visualization method to provide a comprehensive EDA, e.g., price ranges, distance from city center, number of stars, review score, etc. It is up to you what features to choose to visualize.

### Step 4 – Interaction with the user

Your code should be able to perform the following task to give the user the list of “perfect.” accommodation in the city:

- User inputs certain preferences for the accommodation, e.g., price ranges, distance from city center, number of stars, review score, etc.
- User chooses the criteria that based on which the accommodations should be sorted.
- The code returns the sorted list of all accommodations in the area.
- The user should be able to input the name of a hotel from your list and get the following information:
  - Hotels address
  - Distance from city center
  - Average price per night for given accommodation type for the data that you have pre-selected.
  - Review score
  - Hotel rating
  - Hotel summary/description
  - At least 5 photos of the hotel