

Readme for PocketTrip (Group 4):

Group Members:

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Product Description:

Our product PocketTrip is designed to provide travel planning for travellers to improve their travel experiences. We get input from our customers to enter their desired travel place, number of people travelling, dates and their daily budget. We then distribute weight percentage to different categories: Hotel, Living Cost and Leisure(Museums and tourism sites). We recommend combos of hotels, means and places to visit according to different budgets.

Source code:

Our desired workflow is as following:

1. Get input- travel city, no. of people, start and end dates, currency type and budget.
2. Based on that it generates *three outputs*
 - a. Option 1: the basic option, with detailed composition
 - b. Option2: the best option, again, with detailed composition
 - c. Final recommendation based on your input budget and most suitable option

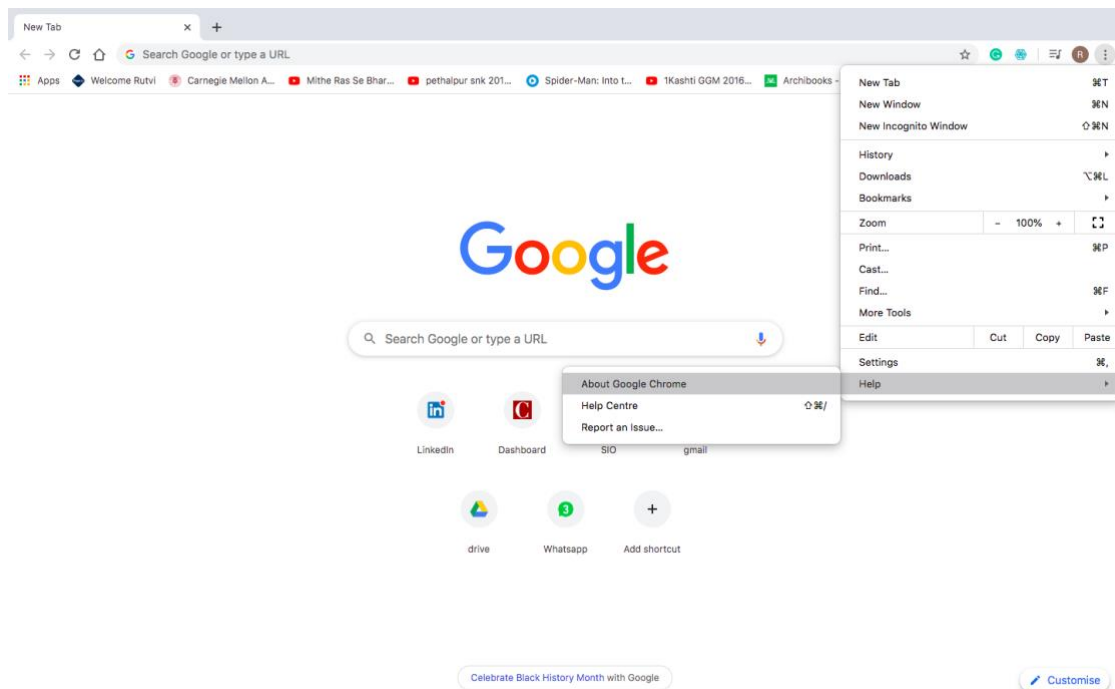
In source code, there are following parts:

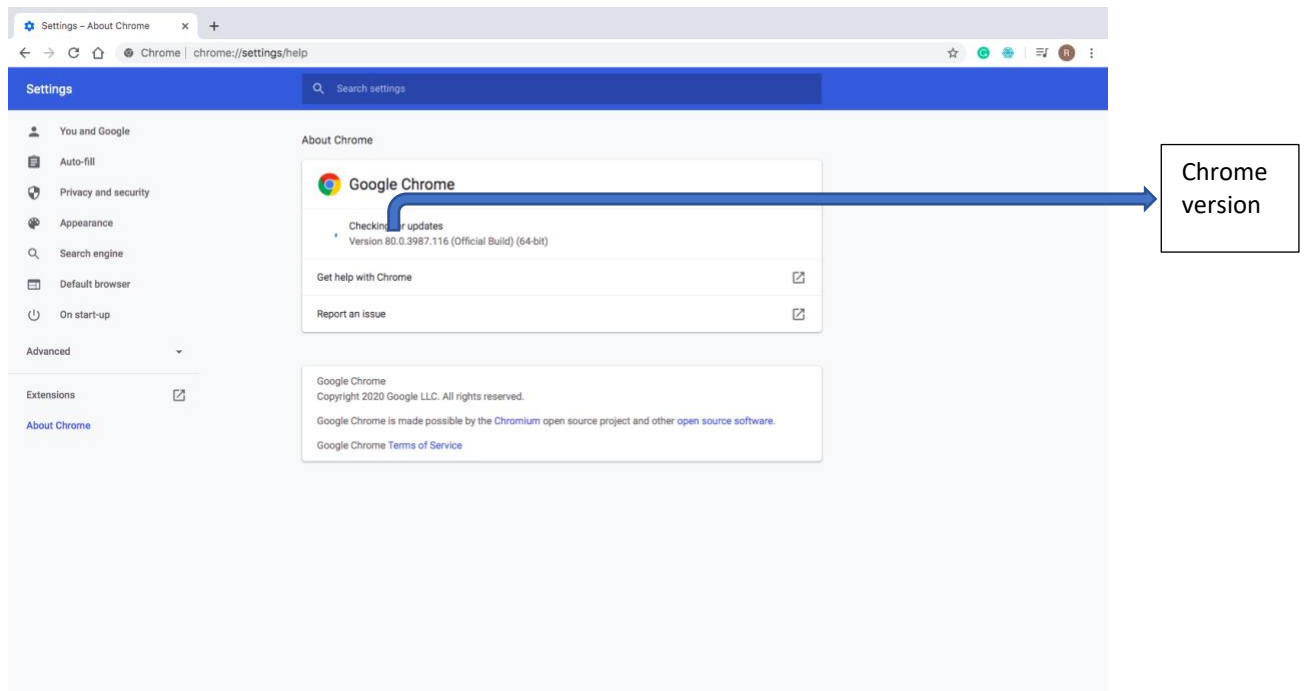
- The function expense will take city as the argument and returns cost of common expenses in that city
- The function leisure activities will take city as the argument and returns cost of popular tourists destinations in that city, but for right now, we just serve services in London.
- The function conversion rate scrapes from the web and gets the latest conversion rates to GBP (or the Great Britain Pound)
- The function convert serves to take in the currency preferences of the users and convert them into GBP.
- Then we have the user input module where it serves as our user interface. It will direct users through lists of questions where we gather their travel information to make recommendations which includes: place to travel, number of people traveling, days of travelling and the budget per day per person cost.
- After we have gathered all information we need, our product will then produce three options for users with option one being the lowest price and best value, option two being higher quality and option three states the extra money you can spare if you choose option one. Users can use the extra money for shopping or other activities.

Execution (Important):

The code uses Selenium which needs to be installed. Selenium requires chromedriver installation in order to scrap chrome. The **chromedriver has specific versions** which tally with the actual chrome version. I have **attached the chromedriver version 80 for a 64 bit Mac**. If your chrome version differs from 80 or if you require 32 bit windows version of chrome drive, you will not be able to scrape. Please kindly install the chromedriver verion specific to your browser.

1. Please check your chrome version. Click on the 3 dots, go to “help” and click “about google chrome”.





2. Download the compatible chromedriver from the following:
<https://chromedriver.chromium.org/downloads>

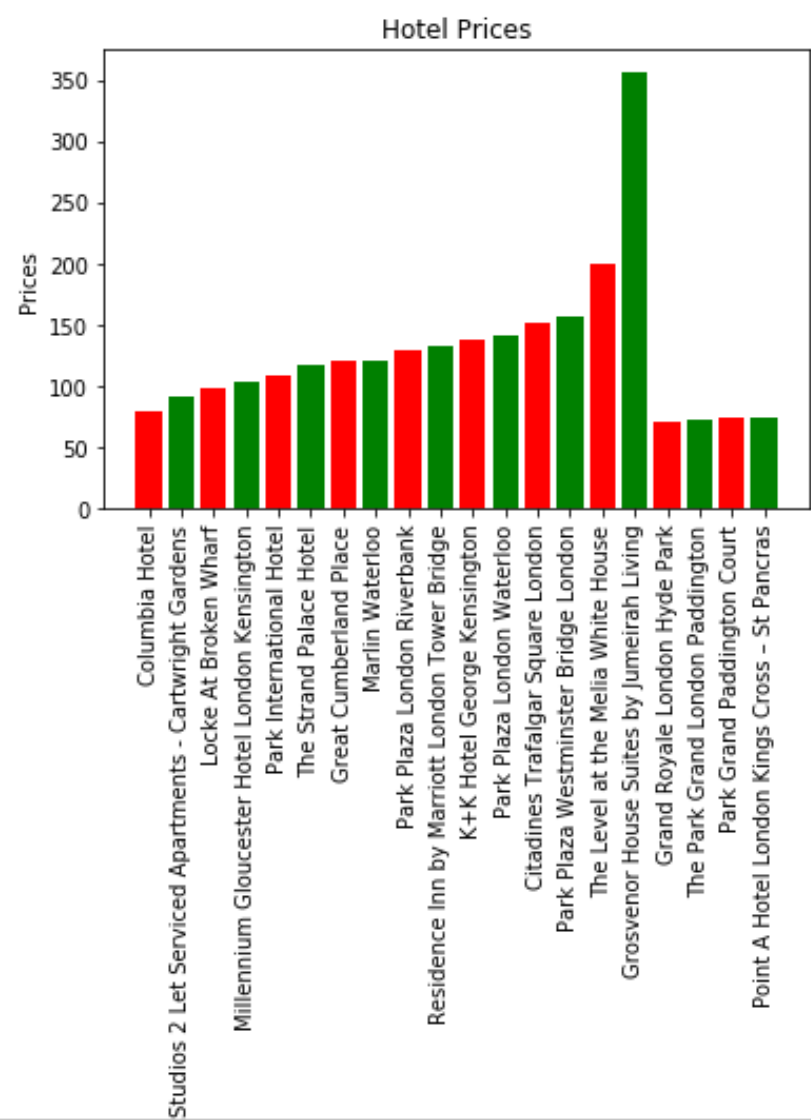
If the scraping stil fails or times out due to web connection, please comment the code from line 311 till 338 and uncomment code from 351 to 353

Output:

Once executed, you will see the following output on the console:

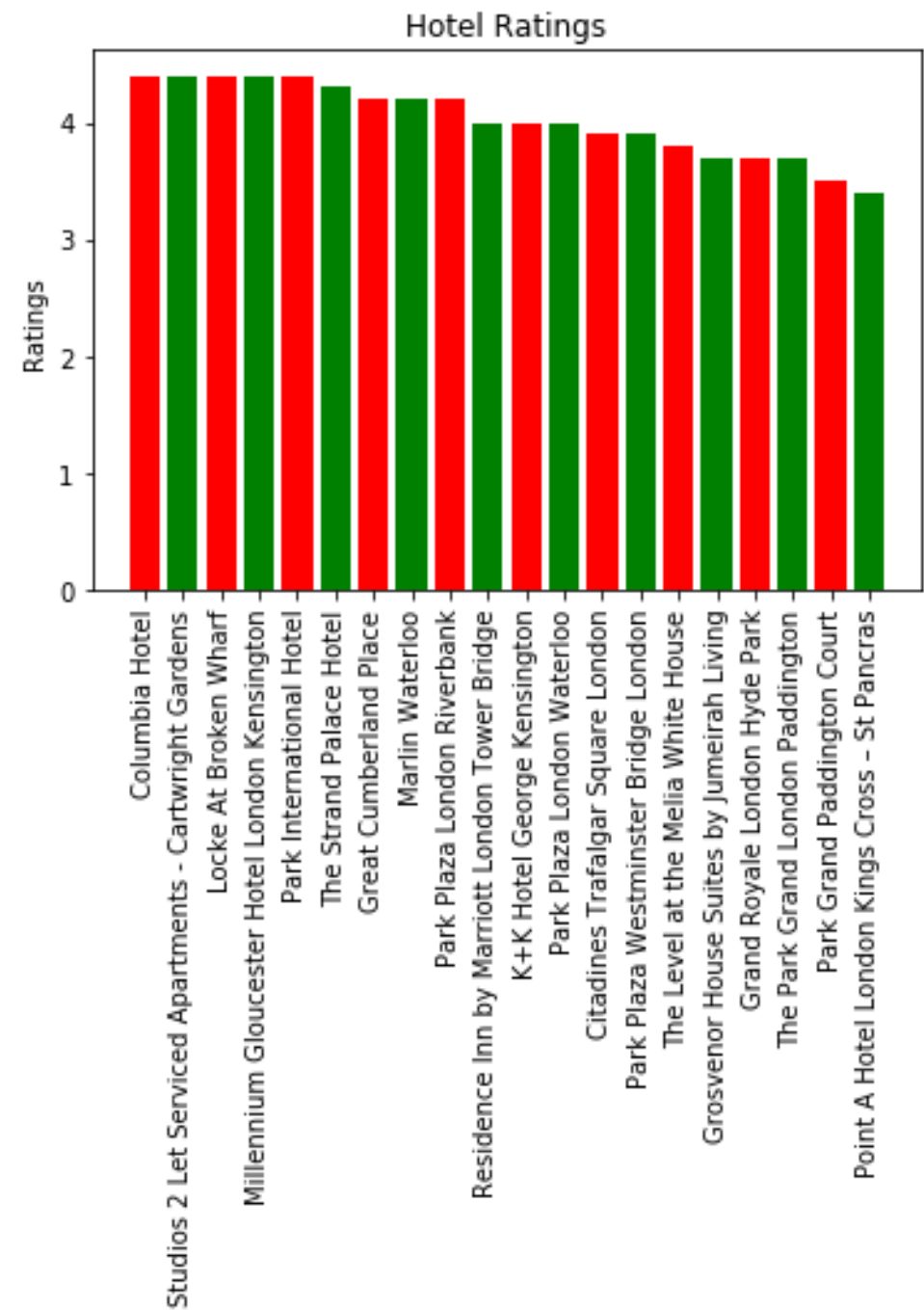
1. The Hotel Prices graph:

*** The Graphical representation of Prices across Hotels ***



2. The Hotel Ratings graph:

*** The Graphical representation of Prices across Hotels ***



3. Option 1:

The mean Price of a room per person in hotels in London on the dates entered by you is ** 126.45 GBP **

Thank you for choosing Pocket Travel,

*** Option # 1 ***

The cheapest price per person per day for traveling in London is ** 209.09 GBP **

It includes the hotel ** Columbia Hotel ** in London

Plus, it covers the following activities in London:

- ** Basic lunchtime menu (including a drink) in the business district,
- ** Dinner for two at an Italian restaurant in the expat area including appetisers, main course, wine and dessert,
- ** Taxi trip on a business day, basic tariff, 8 km. (5 miles),
- ** 1 cocktail drink in downtown club,
- ** and Cappuccino in expat area of the city

Additionally, it includes visits to the following places:

- ** Royal Mews,
- ** Sherlock Holmes Museum,
- ** and, Apsley house

4. Option 2:

*** Option # 2 ***

The Best price per person per day for traveling in London is 465.72 GBP

It includes the hotel ** Marlin Waterloo ** in London, which has the highest rating of 4.4

Plus, In addition to the activities in Option #1 it covers the following activities in London:

- **2 tickets to the theater (best available seats),
- **and, 2 tickets to the movies

Also, apart from the leisure activities covered in the Option#1 it includes visits to the following places:

- **Shakespeare's Globe Theatre Tour & Exhibition,
- **HMS Belfast,
- **Chelsea FC stadium tour,
- **Churchill War Rooms
- ** and, St Paul's Cathedral

5. Our recommended Option:

*** Pocket Travel's Recommendation ***

Hi Congratulations!! You can avail our basic Option #1, and still would have ** 134.41 GBP ** left to enjoy your trip.