Mini Project 1 – What should I cook tonight?

Note:
The mini projects are individual assignments. You could and it is encouraged to brainstorm the assignments with your classmates, but you need to have individual codes and reports. All written reports and codes are going to be checked for plagiarism.

Task Description

Step1 – Webscraping

- Scrape the data of the first 50 pages of the website https://www.skinnytaste.com (your scraper of choice).

Step 2 – Filter interesting data

- Name of the food
- Image of the food
- Calories
- Personal Points
- Summary
- The recipe Key (Could be found on the website)

Step 3 – EDA and Visualisation

- Use the appropriate visualisation method to provide information on
    - Calories distribution
    - Recipe key distribution
    - Points distribution

Step 4 – User interaction

Your code should be able to perform the following task:

- Input a calorie range
- Input a point range
- Output the first 10 foods sorted based on calories, include their image and their summary.

Reporting

Write a scientific report including:

- Introduction (Description of the problem: what are you trying to solve?)
- Data Collection:
    How are you collecting data?
    What are the challenges in scraping the data? How do you store the scraped data for a further easy use?

- Data analysis: Visualize the data, what are some interesting observations you could report?
- Conclusion: What were the bottlenecks? How did you overcome them?

You will also be graded on the overall quality of your report. To give you an idea of a proper project report, a sample is uploaded in Moodle.
You need to use Google Colab for your code. Remember to include the installation steps in the code if you use any specific package.

Upload the code and the written report into Moodle!