Assessment

For this assignment the datasets you will be working with consist of UK reported street crimes form January 2019 to March 2019.

1. You can download the relevant datasets here: https://data.police.uk/data/
2. On the page select the following for the respective fields:
   - Date Range: January 2019 to March 2019
   - Forces: All forces
   - Data sets: Include crime data and Include outcomes data
3. Once you have downloaded the zip file and extracted the data, you will notice for each district has two files.
   - As an example for "Avon and Somerset" we have:
     - 2019-01-avon-and-somerset.csv and;
     - 2019-01-avon-and-somerset-outcomes.csv

Your task is to:

1. Extract the following fields from each csv:
   a. crimeID
   b. districtName
      i. Can be extracted from the filename
   c. latitude
   d. longitude
   e. crimeType
   f. lastOutcome
      i. The last outcome should be taken from the <district>-outcomes.csv file where the crime IDs match. If there is no matching data use the data listed in the original <district>.csv file.
   g. As an example the final data structure should look like **Table_1** below
2. Store the final structured data in either MongoDB or Elasticsearch
3. The data should be accessible either through
   a. an API call using the crimeID or;

      b.   using visual tool like Kibana

4. Use docker-compose to orchestrate the set up of your final solution project. (bonus)

5. Make sure to include a detailed README.md file outlining the setup instructions and description of what steps you took to reach your final solution.

6. Upload your project to GitHub/GitLab and include a link when responding.

crimeId	districtName	latitude	longitude	crimeType	lastOutcome
98096d1a69205691a56b89c1182eadd6aaf15400ea18da134e0023f20aba5cdb	avon and somerset	51.419357	-2.515072	Criminal damage and arson	Under investigation
7984cd127f0fa49c7fc6de29e042b51881910a716de1d12c49f7bbe9a809ecd4	avon and somerset	none	none	Vehicle crime	Suspect charged

Table_1: final data structure

If there are any details that are unclear please do not hesitate to ask any question.

Good luck! We look forward to reviewing your solution.