Scraping, storing and processing

Part 1: Web Scraping and Database Storage

Url to scrap: https://zuscoffee.com/category/store/melaka
Scrape the names and addresses of outlets from a given webpage that has multiple pages of content. Ensure your script can handle pagination to navigate through all available pages. Store the scraped data into a database, designing the schema in a way that you find suitable for this task.

Part 2: Geocoding

For each outlet, retrieve its geographical coordinates based on the stored address. Use Open Street Maps (it's FREE!)

Part 3: API Development

Develop a backend API to serve the outlet data, including their geographical coordinates.

Part 4: Frontend Development and Visualization

Create a web application that interacts with your API to visualize the outlets on a map. Implement functionality to display a 5KM radius catchment around each outlet on the map. Highlight or mark the outlets that intersect with any other outlet's 5KM radius catchment.

Part 5: Documentation and Instructions

Provide documentation with instructions on how to set up and run your application, and any other necessary information required to understand and use your solution. (hint: figure out how to use AI to do this)

Submission

* Submit all the source code.
* Provide the link to a hosted version of the solution (if possible).
* A detailed README.md file.
* Preferable python version 3.8-3.11
* Please omit all api keys/secret when pushing to git or when you share the code

Submit to jermaine@mindhive.asia (cc: johnson@mindhive.asia)