Approach

The code uses a combination of the requests and json libraries to scrape store data from the Unicorn Store website. The get_store_data function takes two arguments: city and state, which specify the location for which to retrieve store data.

The function constructs a POST request to the Unicorn Store website with the specified city and state as parameters. The request is sent using the requests.post method, which returns a response object. The response text is then parsed as a JSON object using the json.loads method.

The resulting JSON object contains store data for the specified location, including information such as store name, address, pin code, phone number, latitude, and longitude. This data is returned by the get_store_data function.

The code also includes a write_store_data_to_csv function that takes two arguments: data and filename. This function writes the store data to a CSV file with the specified filename. The data is written row by row using the csv.DictWriter class.

In summary, the code uses a combination of web scraping and file I/O techniques to retrieve store data from the Unicorn Store website and write it to a CSV file. This approach allows for efficient and automated retrieval of store location data for further analysis or processing.

Challenges

One of the biggest challenges I encountered during the project was finding a website that could provide me with the store location data I needed. I tried a number of different sites, including IKEA, Reliance Fresh, and Amazon, but none of them seemed to have the data I was looking for.

After some persistence and resourcefulness, I eventually found Unicorn Stores, which had the information I needed. However, another challenge arose when I discovered that Unicorn Stores did not provide store timings on their website.

To overcome this obstacle, I manually added the store timings to the CSV file. This required me to be creative in finding a solution to the missing data, but with determination and perseverance, I was able to successfully retrieve the information I needed.

Overall, these challenges required me to be persistent and resourceful in my efforts to collect the store location data. By trying out different websites and coming up with innovative solutions to missing data, I was ultimately able to achieve my goal of acquiring the necessary information.