ME EN 5250/6250 Group Project

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For the first part of our project, we wrote a web scraper using Beautiful Soup, the Requests library, and the Pandas DataFrame library. For scraping the data, we used the requests library to retrieve the webpage’s HTML, and then parsed it with the Beautiful Soup package. Because the data on Worldometer is in a convenient table, we just had to locate the proper table, and then search for the row that had the correct country name. These country names were listed in a .txt file that is in the same folder as our .py files. The scraper also creates a directory for the data to reside in.

Scraped information for each country was stored in a dictionary, which was returned and then appended to a DataFrame. Pandas has built-in functions for exporting data as both Excel and JSON files and we used both. Our JSON organization is by date, so each file has the information for each country that was scraped on a given date. We scraped the full table from Worldometer for completeness, and all that is included in our JSON file.