Web Scraping Project: U.S. Infusion Centers Locator

Overview

This project focuses on web scraping healthcare facility data from the Infusion Center Locator, a public-facing directory that lists infusion centers across the United States. Infusion centers provide essential outpatient services for patients with autoimmune diseases, cancer, and chronic illnesses.

The goal of this project is to automate the extraction of all center names and their physical addresses into a structured format (Excel/CSV), enabling future use in analytics, mapping, and healthcare accessibility research.

o Objectives

- Scrape the full list of infusion centers from the locator website.
- Extract the center name and address for each location.
- Save the collected data into an Excel file for easy access and analysis.
- Build a clean, modular scraping solution suitable for a data science portfolio.

K Tools and Technologies

- **Python** For scripting and automation
- Selenium To automate interaction with the website and extract data
- Pandas To store, manipulate, and export the collected data
- Jupyter Notebook For documenting the entire process interactively

Output

A downloadable Excel file named infusion_centers_all.xlsx containing:

- Center Name
- Address

Why This Project?

- Demonstrates real-world web scraping skills
- Showcases automation of dynamic web content using Selenium
- Builds a portfolio-worthy dataset in the healthcare domain
- Provides potential use cases in public health analysis and business intelligence

Section 2: Tools and Library Imports

In this project, we will use the following Python libraries:

- Selenium: Automates browser interactions (used to navigate the website, click buttons, and scrape dynamic content).
- Pandas: Used for organizing the scraped data into a structured DataFrame and exporting it to Excel.
- - Make sure these libraries are installed before running the code.

Installation (if not already installed)

You can install these libraries using pip:

pip install selenium pandas openpyxl

In [36]: # # Import necessary libraries from selenium import webdriver from selenium.webdriver.chrome.options import Options from selenium.webdriver.common.by import By import pandas as pd import time

Section 3: Setting Up Selenium WebDriver (with webdriver-manager)

Instead of manually downloading and managing the ChromeDriver, we'll use webdriver-manager to automatically fetch the correct version. This makes the setup smoother and platform-independent.

```
In [37]: # K Set up headless Chrome WebDriver
         chrome_options = Options()
         chrome_options.add_argument("--headless")
                                                         # Run browser in headless mode (no GUI)
         chrome_options.add_argument("--disable-gpu")
                                                        # Disable GPU rendering
         chrome_options.add_argument("--no-sandbox")
                                                         # Required for some Linux environments
         # Launch the browser
         driver = webdriver.Chrome(options=chrome_options)
         # Confirm it's working
         Chrome WebDriver launched successfully.
In [38]: # 🏉 Install webdriver-manager if not already installed
         !pip install selenium webdriver-manager --quiet
In [39]: | # 🤻 Set up WebDriver using webdriver-manager
         from selenium import webdriver
         from selenium.webdriver.chrome.service import Service
         from selenium.webdriver.chrome.options import Options
         from webdriver_manager.chrome import ChromeDriverManager
         from selenium.webdriver.common.by import By
         import pandas as pd
         import time
         # Configure Chrome to run headless
         chrome_options = Options()
         #chrome_options.add_argument("--headless")
         chrome_options.add_argument("--disable-gpu")
         chrome_options.add_argument("--no-sandbox")
         # Initialize driver using ChromeDriverManager
         driver = webdriver.Chrome(service=Service(ChromeDriverManager().install()), options=chrome_options)
         print(" ✓ Chrome WebDriver launched successfully (via webdriver-manager).")
        Chrome WebDriver launched successfully (via webdriver-manager).
```

Section 4: Load the Website and Trigger the Search

Now that the browser is running, we'll:

- 1. Navigate to the Infusion Center Locator website.
- 2. Wait for the page to fully load.
- 3. Click the **Search** button to display all available centers across the U.S.

We use time.sleep() to ensure the page loads properly before we interact with elements.

```
In [41]: from selenium.webdriver.support.ui import WebDriverWait
        from selenium.webdriver.support import expected_conditions as EC
        # # Reload the site
        driver.get("https://locator.infusioncenter.org/")
        try:
            # 🏂 Wait until the backdrop disappears
            WebDriverWait(driver, 20).until(
                EC.invisibility_of_element_located((By.CLASS_NAME, "MuiBackdrop-root"))
            # O Wait until the 'Search' button is clickable and enabled
            search_button = WebDriverWait(driver, 20).until(
                EC.element_to_be_clickable((By.XPATH, "//button[contains(text(), 'Search')]"))
            # Z Click the button
            search_button.click()
            time.sleep(10) # Wait for results to load
        except Exception as e:
            print("X Error:", e)
```

Section 5: Scroll to Load All Results

Since the website loads more centers as you scroll, we automate scrolling to the bottom repeatedly until no new centers load.

This ensures we collect the full list before extraction.

```
In [44]: # Scroll to load all centers dynamically
         prev_count = -1
         while True:
             driver.execute_script("window.scrollTo(0, document.body.scrollHeight);")
             time.sleep(3)
             containers = driver.find_elements(By.CSS_SELECTOR, "div.locator-result-container")
             current_count = len(containers)
             print(f"Centers loaded: {current_count}")
             if current_count == prev_count:
                 print(" All centers loaded.")
             prev_count = current_count
         # Extract name and address
         data = []
         for idx, container in enumerate(containers):
             try:
                 # Use WebDriverWait to ensure elements are present inside this container
                WebDriverWait(container, 2).until(
                     EC.presence_of_element_located((By.CLASS_NAME, "locator-result-name"))
                # Try to get the name from either desktop or mobile view
                name = ""
                try:
                    name = container.find_element(
                         By.XPATH, ".//div[contains(@class, 'hidden') and contains(@class, 'sm:block')]//div[contains(@class, 'locator-
                    ).text.strip()
                 except:
                    try:
                         name = container.find_element(
                            By XPATH, ".//div[contains(@class, 'sm:hidden')]//div[contains(@class, 'locator-result-name')]"
                        ).text.strip()
                    except:
                        name = ""
                 # Extract address
                 address = ""
                    address_div = container.find_element(By.CLASS_NAME, "locator-result-address")
                    address_lines = address_div.find_elements(By.TAG_NAME, "div")
                    street = address_lines[0].text.strip() if len(address_lines) > 0 else ""
                    city_state = address_lines[1].text.strip() if len(address_lines) > 1 else ""
                    address = f"{street}, {city_state}" if street and city_state else ""
                 except:
                    address = ""
                if name and address:
                    data.append({"Center Name": name, "Address": address})
                 else:
                    print(f" ▲ Skipped at index {idx} | Name: {name} | Address: {address}")
             except Exception as e:
                 print(f" X Error at index {idx}: {e}")
         # Convert and preview
         import pandas as pd
         df = pd.DataFrame(data)
         print("\n | Preview of Top 5:")
         print(df.head())
```

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            Preview of Top 5:
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           Integrative Rheumatology of Westchester | Dr. ...
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                 Agile Infusion Services LLC - Hackensack, NJ
        3
                     Thrivewell Infusion - Tarrytown/Elmsford
        4
                                 VIVO Infusion - Valhalla, NY
                                          Address
                  11 Medical Park Dr, Pomona, NY
        0
        1
           838 Pelhamdale Ave, New Rochelle, NY
        2
                    5 Summit Ave, Hackensack, NJ
        3
                     555 Taxter Rd, Elmsford, NY
        4
                  400 Columbus Ave, Valhalla, NY
            Total Valid Centers Extracted: 240
In [45]: df.head()
Out[45]:
                                                                                 Address
                                          Center Name
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                                                       838 Pelhamdale Ave, New Rochelle, NY
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                 Agile Infusion Services LLC - Hackensack, NJ
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                    Thrivewell Infusion - Tarrytown/Elmsford
                                                                 555 Taxter Rd, Elmsford, NY
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                               VIVO Infusion - Valhalla, NY
                                                              400 Columbus Ave, Valhalla, NY
         df.shape
Out[46]: (240, 2)
         df.to_csv("infusion_centers.csv")
```