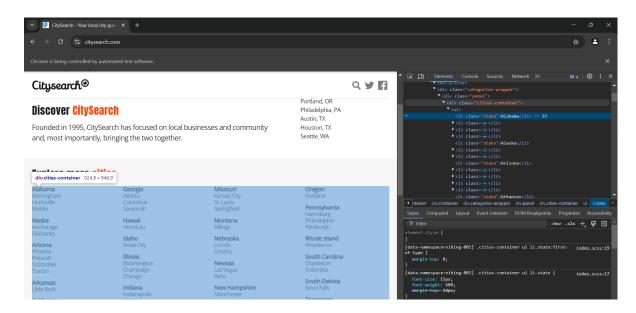
CitySearch Web Scraping

Importing libraries

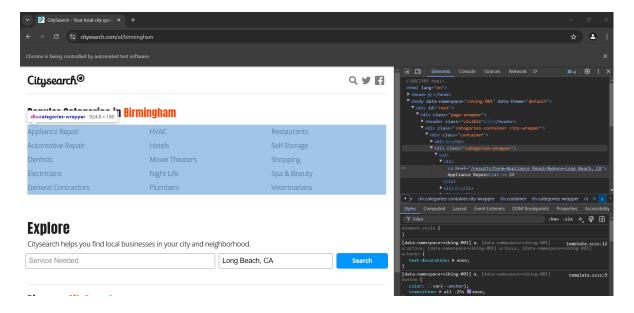
Navigating to the main page of CitySearch

Extracting the links to individual cities



Navigating to a city link and gathering popular jobs

If we have keywords of specific industries we're interested in, I can iterate over them instead of iterating over popular industries. Also, if we have a list of states or cities we're interested in, I can also iterate over those.



Navigating to first popular job and extracting links to jobs

```
    Citrusearch

Citrusearch

Console

Citrusearch

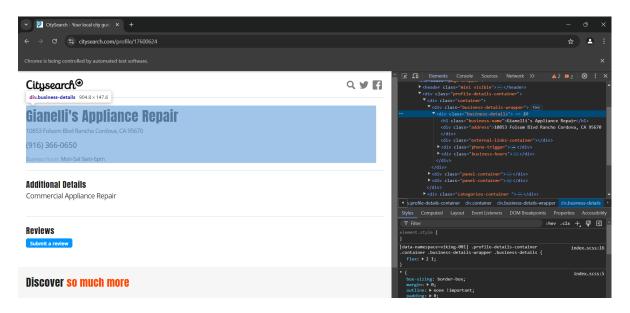
Console

Con
```



Scraping job description

```
business_list = []
In [ ]:
         M
              1
              2
                 for i in range(0, 5): #5 should be job_cards_link's length when implem
              3
              4
              5
                     driver.get(job_cards_links[i])
              6
              7
                     try:
              8
                         elem = WebDriverWait(driver, 10).until(EC.presence_of_element_
              9
                     except TimeoutException:
             10
                         print("Timed out waiting for page to load")
             11
                     # not sure if all business have all their contact info so creating
             12
             13
                     business details = driver.find elements(By.CSS SELECTOR, 'div.busi
             14
             15
                     business_details_dict = {
             16
                         entry.get_attribute("class"): entry.text
                         for entry in business_details
             17
             18
                     }
             19
             20
                     business_list.append(business_details_dict)
             21
                     time.sleep(3)
```



Converting to dataframe, renaming columns and exporting to csv

```
In [ ]:
             1
                df = pd.DataFrame.from_dict(business_list)
             2
             3 df.rename(columns={
             4
                    "business-name": "business name",
             5
                    "external-links-container": "external link",
                    "phone-trigger": "phone number",
             6
                    "business-hours": "business hours"
             7
             8 }, inplace=True)
            10 df.to_csv(f'./{state}_{city}.csv', index=False) # example al_birmingha
In [ ]:
             1 driver.quit()
```

Possible Improvements and Changes

Depending on the company's needs, I can store these values elsewhere instead of a CSV. Possibly in MongoDB or an SQL database.

When scraping large amounts of data, the current script may run into memory issues. During full implementation, I'll refactor the script into something more modular or OOP. Selenium has something called Page Object Model (POM). I'm not too familiar with POM but I am more than willing to try!