

Python Code

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1  from selenium import webdriver
2  from selenium.webdriver.common.by import By
3  from selenium.webdriver.support.ui import WebDriverWait
4  from selenium.webdriver.support import expected_conditions as EC
5  import csv
6
7  # Initialize Chrome WebDriver
8  driver = webdriver.Chrome()
9
10 # Open Google search for "github"
11 driver.get("https://www.google.com/search?q=github")
12
13 # Handle Google cookie/consent popup if it appears
14 try:
15     consent_button = WebDriverWait(driver, 5).until(
16         EC.element_to_be_clickable(
17             (By.XPATH, "//button[contains(text(),'I agree') or contains(text(),'Agree
e')]"))
18     )
19 )
20 consent_button.click()
21 except:
22     pass # No popup appeared
23
24 # Wait for search results to appear
25 try:
26     WebDriverWait(driver, 10).until(
27         EC.presence_of_element_located((By.CSS_SELECTOR, "a[href^='http']")))
28     )
29 except:
30     print("Search results did not load.")
31     driver.quit()
32     exit()
33
34 # Collect all external links
35 results = driver.find_elements(By.CSS_SELECTOR, "a[href^='http']")
36 links = []
37 seen = set()
38
39 for r in results:
40     url = r.get_attribute("href")
41     # Filter out Google internal links and duplicates
42     if url and "google.com" not in url and url not in seen:
43         links.append(url)
44         seen.add(url)
45
46 # Print number of links found
47 if not links:
48     print("No links found.")
49 else:
50     print(f"Total links found: {len(links)}")
51     for link in links:
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52         print(link)
53
54     # Save links to CSV
55     with open("google_results.csv", mode="w", newline="", encoding="utf-8") as file:
56         writer = csv.writer(file)
57         writer.writerow(["Link"])
58         for link in links:
59             writer.writerow([link])
60
61     print("Saved all links to google_results.csv")
62
63     # Close the browser
64     driver.quit()
65
```