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import org.openga.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.WebElement;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.chrome.ChromeOptions;
import java.io.FileWriter;
import java.io.IOException;
import java.util.HashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Queue;
import java.util.Set;
public class WikiLinkScraper {
  private static final int MAX_LINKS_PER_PAGE = 10;
  public static void main(String[] args) {
     // Initialize WebDriver
     System.setProperty("webdriver.chrome.driver", "path/to/chromedriver");
     ChromeOptions options = new ChromeOptions();
     options.addArguments("--headless"); // Run headless Chrome
     WebDriver driver = new ChromeDriver(options);
     // Inputs
     String url = "https://en.wikipedia.org/wiki/Selenium (software)";
     int cycles = 2;
     if (!isValidWikiLink(url)) {
       System.err.println("Invalid Wikipedia link provided.");
       driver.quit();
       return;
    }
     // Data structure to store unique links
     Set<String> visitedLinks = new HashSet<>();
     Queue<String> linkQueue = new LinkedList<>();
     linkQueue.add(url);
     visitedLinks.add(url);
     // Main scraping process
    for (int i = 0; i < cycles; i++) {
       int currentQueueSize = linkQueue.size();
       for (int j = 0; j < currentQueueSize; j++) {
```

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String currentUrl = linkQueue.poll();
        driver.get(currentUrl);
        List<WebElement> links = driver.findElements(By.cssSelector("a[href^='/wiki/']"));
        int linksAdded = 0;
        for (WebElement link: links) {
           if (linksAdded >= MAX LINKS PER PAGE) break;
           String href = link.getAttribute("href");
           if (href != null && !visitedLinks.contains(href)) {
             visitedLinks.add(href);
             linkQueue.add(href);
             linksAdded++;
          }
     }
   }
   // Write results to a JSON file
   try (FileWriter file = new FileWriter("results.json")) {
     file.write("{\n");
     file.write(" \"totalCount\": " + visitedLinks.size() + ",\n");
     file.write(" \"uniqueCount\": " + visitedLinks.size() + ",\n");
     file.write(" \"links\": [\n");
     int count = 0;
     for (String link : visitedLinks) {
        file.write(" \"" + link + "\"");
        if (++count < visitedLinks.size()) {</pre>
           file.write(",\n");
        }
     file.write("\n ]\n");
     file.write("}\n");
   } catch (IOException e) {
     e.printStackTrace();
   }
   // Clean up
   driver.quit();
}
private static boolean isValidWikiLink(String url) {
   return url.startsWith("https://en.wikipedia.org/wiki/");
}
```

}