Broken links

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| public class BrokenLinks {      public static void main(String[] args) { System.setProperty("webdriver.chrome.driver", "D:/chromedriver.exe"); WebDriver driver = new ChromeDriver();      // Navigate to BStackDemo Website driver.get("[https://bstackdemo.com/");](https://bstackdemo.com/%22);)      // Finding all the available links on webpage List<WebElement> links = driver.findElements(By.tagName("a"));      // Iterating each link and checking the response status for (WebElement link : links) { String url = link.getAttribute("href"); verifyLink(url); }      driver.quit(); }      public static void verifyLink(String url) { try { URL link = new URL(url); HttpURLConnection httpConnect = (HttpURLConnection) link.openConnection(); httpConnect.setConnectTimeout(3000); // Set connection timeout to 3 seconds httpConnect.connect();      if (httpConnect.getResponseCode() == 200) { System.out.println(url + " - " + httpConnect.getResponseMessage()); } else { System.out.println(url + " - " + httpConnect.getResponseMessage() + " - " + "is a broken link"); } } catch (Exception e) { System.out.println(url + " - " + "is a broken link"); } } } |

Explanation

1. driver.findElements(By.tagName("a")):

Finds all <a> elements on the webpage.

2. getAttribute("href"):

Retrieves the hyperlink (href) attribute of each <a> tag.

3. HttpURLConnection:

Used to send an HTTP request to the URL and get the response code.

4. Response Code Interpretation:

200: Valid link.

400 and above: Broken link (e.g., 404 - Not Found).