

```
1 package com.Task;
2
3 import java.awt.AWTException;
31
32 public class MavenProjectOne {
33
34
35     public static WebDriver ChromeDrivers;
36     //private static int index;
37     //private static ByteString option;
38
39 //browser launch
40
41     public static WebDriver browserLaunch(String browser) {
42
43         if (browser.equalsIgnoreCase("ChromeDrivers")) {
44             System.setProperty("webdriver.chrome.driver", ".\\ChromeDrivers\\
45             ChromeDrivers = new ChromeDriver();
46
47         }
48         else if (browser.equalsIgnoreCase("FireFox")) {
49
50             System.setProperty("webdriver.gecko.driver", "null value");
51             ChromeDrivers = new FirefoxDriver();
52         }
53         else {
54
55             System.out.println("print invalid browser");
56
57         }
58
59         ChromeDrivers.manage().window().maximize();
60
61         return ChromeDrivers;
62     }
63 }
64
65 //=====
66 //Browser Control Methods
67 // url launch
68
69     public static void urlLaunch(String url) {
70
71         ChromeDrivers.get(url);
72
73 // In this method also using to launch the url
74 //     if (driver != null) { // Check if driver is initialized
75 //         driver.get("https://www.saasgenie.ai/"); // Launch URL
76 //     } else {
77 //         System.out.println("WebDriver is not initialized.");
78 //     }
79 //
80
81
82 }
```

```
83
84 //=====
85 //Browser Control Methods
86 // windows quit
87
88     public static void pageClose() {
89         ChromeDrivers.quit();
90     }
91 }
92 //=====
93 // window waiting time
94     public static void waitTime() throws InterruptedException {
95         Thread.sleep(5000);
96     }
97 }
98
99 //=====
100 // get the title
101     public static String getText(String element) {
102         element= ChromeDrivers.getTitle();
103         System.out.println(element);
104         return element;
105     }
106
107 // try catch method getting the title
108 //     try {
109 //         title= ChromeDrivers.getTitle();
110 //     } catch (Exception e) {
111 //         e.printStackTrace();
112 //     }
113
114 //         System.out.println(title);
115 //         return title;
116
117     }
118
119 //=====
120
121 // click the button
122
123     public static void clickElement(WebElement element) {
124         if (element != null) {
125             try {
126                 element.click();
127                 System.out.println("Element clicked successfully.");
128             } catch (Exception e) {
129                 System.out.println("Unable to click the element: " + e.getMessage());
130             }
131         } else {
132             System.out.println("Element is null, cannot click.");
133         }
134     }
135
```

```
136
137
138//    try {
139//        element.click();
140//        System.out.println("Element clicked successfully.");
141//    } catch (NoSuchElementException e) {
142//        System.out.println("Element not found: " + e.getMessage());
143//    } catch (ElementNotInteractableException e) {
144//        System.out.println("Element not interactable: " + e.getMessage());
145//    } catch (Exception e) {
146//        System.out.println("An unexpected error occurred: " + e.getMessage());
147//    }
148
149
150//    try {
151//
152//        waitforvisibilityofelement(element);
153//        element.click();
154//    } catch (Exception e) {
155//        e.printStackTrace();
156//    }
157
158//=====//
159//Browser Control Methods
160public static void currentUrl() {
161    ChromeDrivers.getCurrentUrl();
162
163    }
164
165
166public static void navigateForward() {
167    ChromeDrivers.navigate().forward();
168
169}
170
171public static void navigateBack() {
172    ChromeDrivers.navigate().back();
173
174}
175
176
177public static void navigateRefresh() {
178    ChromeDrivers.navigate().refresh();
179
180}
181//=====//
182// SendKeys method
183public static void sendkeysfirstName(WebElement element) {
184
185    element.sendKeys("yogeshwari");
186
187}
188public static void sendkeyslastName(WebElement element) {
189
190    element.sendKeys("Ramu");
191
192}
```

```
193
194 //=====//
195 //Method to find an element by its XPath Name
196 //public static WebElement findElementByName(String name) {
197 //    try {
198 //        return ChromeDrivers.findElement(By.xpath(name));
199 //    } catch (Exception e) {
200 //        System.out.println("Element not found: " + e.getMessage());
201 //        return null; // Return null if the element is not found
202 //    }
203 //}
204
205 //Method to find an element by its XPath
206 //public static WebElement findElementByXPath(String xpath) {
207 //    try {
208 //        return ChromeDrivers.findElement(By.xpath(xpath));
209 //    } catch (Exception e) {
210 //        System.out.println("Element not found: " + e.getMessage());
211 //        return null; // Return null if the element is not found
212 //    }
213 //}
214 //=====//
215
216
217 public static void pageSource() {
218     ChromeDrivers.getPageSource();
219 //    try {
220 //        ChromeDrivers.getPageSource();
221 //    } catch (Exception e) {
222 //        System.out.println("Element not found:" + e.getMessage());
223 //    }
224 // }
225 }
226 //=====//
227 //Windows handling methods
228 public static void WindowsHandleless(WebElement element){
229
230     }
231
232 // public static void Windowhandles(String windowhandles) {
233 //
234 //
235 //     //String parentid =ChromeDrivers.getWindowHandle();
236 //     //element.click();
237 //
238 //     Set<String> windowhandless =ChromeDrivers.getWindowHandles();
239 //
240 //
241 //
242 //     System.out.println(windowhandless);
243 //     ChromeDrivers.switchTo().window(windowhandles);
244 //
245
246
247 //
248 //     String childid = ChromeDrivers.getWindowHandle();
249 //     element.click();
```

```
250//      Set<String> parentid = ChromeDrivers.getWindowHandles();
251//      String y = null;
252//      for (String d : parentid) {
253//          if (!d.equals(childid)) {
254//              y = d;
255//          }
256//      }
257//      ChromeDrivers.switchTo().window(y);
258
259
260
261
262//}
263//=====//
264//Right click mouse
265public static void rightClick(WebElement elementToRightClick) {
266    Actions actions = new Actions(ChromeDrivers);
267    actions.contextClick(elementToRightClick).perform();
268
269}
270//=====//
271//Robot function using keyboard typing
272public static void singleDownClick() throws AWTException {
273    Robot r= new Robot();
274    r.keyPress(KeyEvent.VK_DOWN);
275    r.keyRelease(KeyEvent.VK_DOWN);
276    r.keyPress(KeyEvent.VK_ENTER);
277    r.keyRelease(KeyEvent.VK_ENTER);
278
279}
280//=====//
281//Time wait function
282public static void timeOut() {
283    ChromeDrivers.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
284
285}
286//=====//
287// Screenshot
288public static void screenShot(WebElement screenshot) throws IOException {
289    TakesScreenshot ts = (TakesScreenshot) ChromeDrivers;
290    File screenshotAs = ts.getScreenshotAs(OutputType.FILE);
291    File saveFile = new File("C:\\Users\\User\\eclipse-workspace\\MavenNEW\\file\\img.png");
292    Files.copy(screenshotAs, saveFile);
293}
294
295//=====//
296// DropDown method
297
298public static void getOption(WebElement element) {
299
300    Select getOption = new Select(element);
301
302    List<WebElement> option = getOption.getOptions();
303
304    //option.get(2);
305}
```

```
306
307
308
309 // if (index >= 0 && index < option.size()) {
310 //     // Click the specified option
311 //     option.get(index).click();
312 // } else {
313 //     System.out.println("Invalid index: " + index);
314 // }
315
316
317 // Select by visible text
318 //dropdown.selectByVisibleText("Option[3]");
319
320 // Select by index
321 //dropdown.selectByIndex(2);
322
323 // Select by value
324 //dropdown.selectByValue("optionValue");
325
326 }
327
328
329 }
330
331
```