
SOFTWARE VERIFICATION, VALIDATION AND TESTING PROJECT

Project: **Testing of Atlantbh webpage**

Prepared by: **Maida Zirić & Elma Šakić**

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Table of Contents

1.	Introduction.....	3
1.1.	Purpose of Test Plan.....	3
1.2	Project Overview	3
1.3	Audience.....	3
2.	Test Strategy.....	4
2.1	Test objectives and tasks.....	4
2.2	Test Principles.....	4
2.3	List of tabs and functionalities	4
3.	Test cases	5
4.	Test Scenario	14
5.	Conclusion	14

1. Introduction

1.1. Purpose of Test Plan

This test plan describes the testing approach and overall framework that will drive the testing of the Atlantbh website. The focus of the document is to describe test plan ,test cases in details,test scenario and to give a conclusion .The document consists of:

- ❖ Test strategy: rules the test will be based on, description of the process to set up a valid test
- ❖ Execution strategy: how the test will be performed and executed
- ❖ Test cases: list of all tested cases that we could test and their screenshots

1.2 Project Overview

Website that we decided to test is Atlantbh. Atlantbh is a software and product development company with years of experience and expertise in providing IT solutions for global clients.Website provide useful information about Careers for anyone who would like to join them,also it provides blog and many choices for students who would like to do ABHInternship.

Website: <https://www.atlantbh.com/>

1.3 Audience

Project team members perform tasks specified in this document, and provide expected outputs with screenshots for tested Test cases.

2. Test Strategy

2.1 Test objectives and tasks

The objective of the test is to verify that the functionality of website Atlantbh works according to the specifications.

The test will execute and verify the test scripts, identify and show that tested cases are done correctly.

So, as team we decided that we will be testing our website with help of unit testing with Selenium.

Selenium is a suit of tools to automate web browsers across many platforms.

Selenium IDE is an integrated development environment for Selenium scripts. It is implemented as a Chrome and Firefox extension, and allows you to record, edit, and debug tests.

2.2 Test Principles

- ❖ Testing will be focused on that will the test cases run correctly.
- ❖ Testing processes will be well defined, yet flexible, with the ability to change as needed.
- ❖ Testing will be divided into distinct phases, each with clearly defined objectives and goals.

2.3 List of tabs and functionalities

Atlantbh website consists of tabs as every website these days does. More about their functionalities will be explained below:

- ❖ **Main page:** <https://www.atlantbh.com/> is a homepage of site that provides main informations about site and lists other tabs which site consists of. It also provides some motivational quotes of their workers as well as their social media links such as Facebook, Instagram etc.
- ❖ **About page:** <https://www.atlantbh.com/about/> is a tab that provides their company history and links to other tabs.
- ❖ **Clients&Stories:** <https://www.atlantbh.com/clients/> provides stories to clients that they are allowed to share such as story about: Leading you startup to success.

- ❖ **Expertise:** <https://www.atlantbh.com/expertise/> is a page that shows what the company provides to the users. They help enterprises make the best use of new technologies and innovative software designs, while ensuring integration with already deployed systems.
- ❖ **Careers:** <https://www.atlantbh.com/careers/> provides information where users can see what positions are currently opened for hiring.
- ❖ **Students:** <https://www.atlantbh.com/internship/> is a page that provides students to apply for Internship they choose.
- ❖ **Blog:** <https://www.atlantbh.com/blog/> is a page that provides good reads about tech tips and lessons learned.
- ❖ **Contact:** <https://www.atlantbh.com/contact/> is a page that provides information of their company such as address and an option to send them a message if they have more questions.

3. Test cases

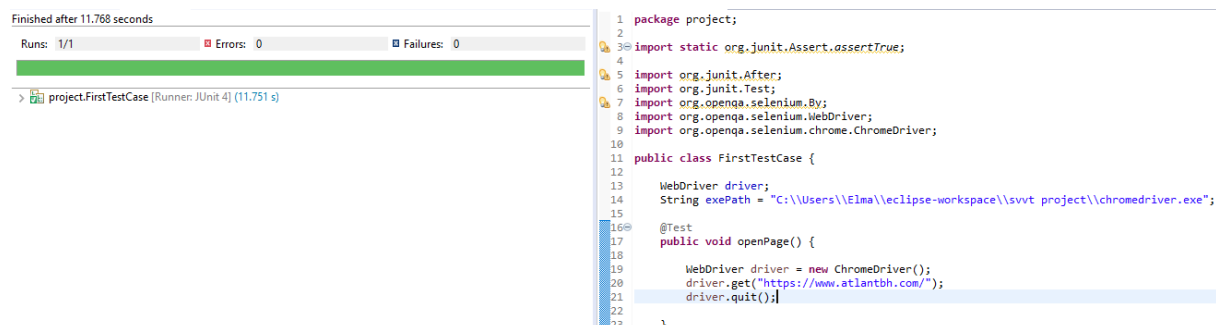
In this section we will be providing all the details with the screenshots about the test cases that we have tested. So let's start!

Purpose of test case: To open Home page with no problems.

Steps: Navigate to the Atlantbh webpage

Expected Output: Basic informations about homepage with other tab options.

Actual Output: Home page correctly displayed.



The screenshot displays an IDE with two panels. The left panel shows the test run results for 'project.FirstTestCase' [Runner: JUnit4] (11.751 s), indicating it finished after 11.768 seconds with 1/1 runs, 0 errors, and 0 failures. The right panel shows the Java code for the test case:

```

1 package project;
2
3 import static org.junit.Assert.assertTrue;
4
5 import org.junit.After;
6 import org.junit.Test;
7 import org.openqa.selenium.By;
8 import org.openqa.selenium.WebDriver;
9 import org.openqa.selenium.chrome.ChromeDriver;
10
11 public class FirstTestCase {
12
13     WebDriver driver;
14     String exePath = "C:\\Users\\Elma\\eclipse-workspace\\svvt project\\chromedriver.exe";
15
16     @Test
17     public void openPage() {
18
19         WebDriver driver = new ChromeDriver();
20         driver.get("https://www.atlantbh.com/");
21         driver.quit();
22     }
23 }

```

Purpose of test case: To check if the current link is: <https://www.atlantbh.com/>

Steps: Navigate to the Atlantbh webpage →Take URL of current page→Print outputs and compare.

Expected Output: The current URL should be same as expected.

Actual Output: Passes to be the same.

```
1 package project;
2
3 import static org.junit.Assert.assertTrue;
4
5 public class FirstTestCase {
6
7     WebDriver driver;
8     String exePath = "C:\\Users\\Elma\\eclipse-workspace\\svvt project\\chromedriver.exe";
9
10    @Test
11    public void openPage() {
12
13        WebDriver driver = new ChromeDriver();
14        driver.get("https://www.atlantbh.com/");
15        driver.quit();
16    }
17
18    @Test
19    public void TruePage() {
20
21        System.setProperty("webdriver.chrome.driver", exePath);
22        WebDriver driver = new ChromeDriver();
23        driver.get("https://www.atlantbh.com/");
24
25        String currentURL = driver.getCurrentUrl();
26        String url = "https://www.atlantbh.com/";
27        if(currentURL.equals(url))
28        {
29            System.out.println("GREAT");
30            System.out.println("Actual URL is : " + currentURL);
31            System.out.println("Expected URL is : " + url);
32        }
33        else {
34            System.out.println("NOT SO GREAT");
35            System.out.println("Actual URL is : " + currentURL);
36            System.out.println("Expected URL is : " + url);
37        }
38    }
39
40 }
```

Failure Trace

<terminated> FirstTestCase [JUnit4] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (Jan 6, 2019, 4:54:29 PM)

Only local connections are allowed.

Jan 06, 2019 4:54:32 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Starting ChromeDriver 2.45.615291 (ec3682e3c9061c10f26ea9e5dcdf3c53f3f74387) on port 1893

Only local connections are allowed.

Jan 06, 2019 4:54:36 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

GREAT

Actual URL is : https://www.atlantbh.com/

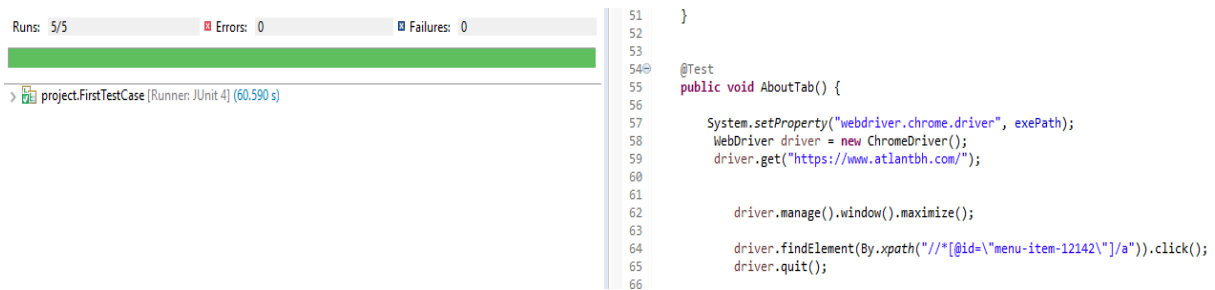
Expected URL is : https://www.atlantbh.com/

Purpose of test case: Checking if About tab opens correctly.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the link. →Close it.

Expected Output: About tab should open and user could read their company history.

Actual Output: About tab opens correctly.



The screenshot shows the Selenium IDE interface. On the left, the 'Test Results' pane displays 'Runs: 5/5', 'Errors: 0', and 'Failures: 0'. Below this, a green bar indicates a successful run. The 'Test Case' pane shows 'project.FirstTestCase [Runner: JUnit 4] (60.590 s)'. On the right, the 'Code' pane shows the following Java code for the 'AboutTab' test:

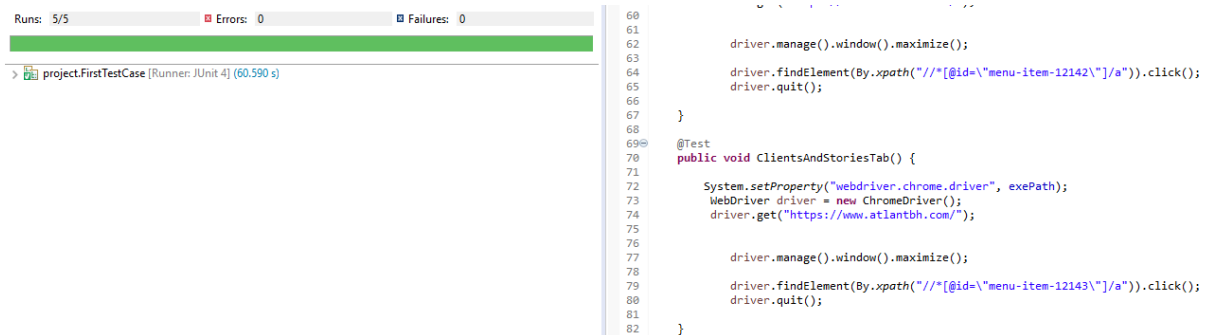
```
51 }
52
53
54 @Test
55 public void AboutTab() {
56
57     System.setProperty("webdriver.chrome.driver", exePath);
58     WebDriver driver = new ChromeDriver();
59     driver.get("https://www.atlantbh.com/");
60
61     driver.manage().window().maximize();
62
63     driver.findElement(By.xpath("//*[@id=\"menu-item-12142\"]/a")).click();
64     driver.quit();
65
66 }
```

Purpose of test case: Checking if Clients&Stories tab opens correctly.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the link. →Close it.

Expected Output: Clients&Stories tab should open and user could navigate from it.

Actual Output: Clients&Stories tab opens correctly.



The screenshot shows the Selenium IDE interface. On the left, the 'Test Results' pane displays 'Runs: 5/5', 'Errors: 0', and 'Failures: 0'. Below this, a green bar indicates a successful run. The 'Test Case' pane shows 'project.FirstTestCase [Runner: JUnit 4] (60.590 s)'. On the right, the 'Code' pane shows the following Java code for the 'ClientsAndStoriesTab' test:

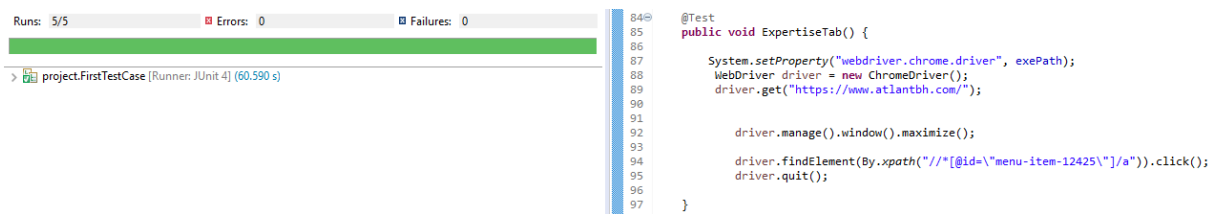
```
60
61
62 driver.manage().window().maximize();
63 driver.findElement(By.xpath("//*[@id=\"menu-item-12142\"]/a")).click();
64 driver.quit();
65
66 }
67
68 @Test
69 public void ClientsAndStoriesTab() {
70
71     System.setProperty("webdriver.chrome.driver", exePath);
72     WebDriver driver = new ChromeDriver();
73     driver.get("https://www.atlantbh.com/");
74
75     driver.manage().window().maximize();
76
77     driver.findElement(By.xpath("//*[@id=\"menu-item-12143\"]/a")).click();
78     driver.quit();
79
80 }
81
82 }
```

Purpose of test case: Checking if Expertise tab opens correctly.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the link. →Close it.

Expected Output: Expertise tab should open and user could navigate from it.

Actual Output: Expertise tab opens correctly.



The screenshot shows a test runner interface on the left with a green bar indicating success. The text below the bar reads "project.FirstTestCase [Runner: JUnit 4] (60.590 s)". To the right, a code editor displays the Java code for the ExpertiseTab test. The code includes imports for WebDriver, ChromeDriver, and By, and uses XPath to find and click a link.

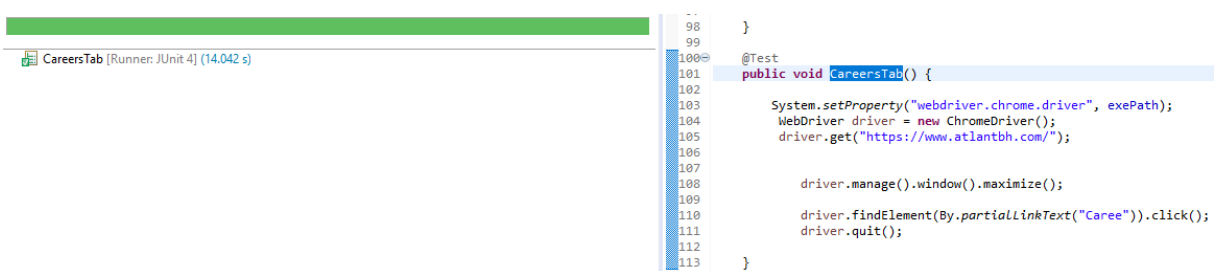
```
84 @Test
85 public void ExpertiseTab() {
86     System.setProperty("webdriver.chrome.driver", exePath);
87     WebDriver driver = new ChromeDriver();
88     driver.get("https://www.atlantbh.com/");
89
90     driver.manage().window().maximize();
91
92     driver.findElement(By.xpath("//*[@id=\"menu-item-12425\"]/a")).click();
93     driver.quit();
94 }
95
96
97
```

Purpose of test case: Checking if Careers tab opens correctly.

Steps: Navigate to the Atlantbh webpage →Find element by partial -linkText→Click the link. →Close it.

Expected Output: Careers tab should open and user could navigate from it.

Actual Output: Careers tab opens correctly.



The screenshot shows a test runner interface on the left with a green bar indicating success. The text below the bar reads "CareersTab [Runner: JUnit 4] (14.042 s)". To the right, a code editor displays the Java code for the CareersTab test. The code includes imports for WebDriver, ChromeDriver, and By, and uses partialLinkText to find and click a link.

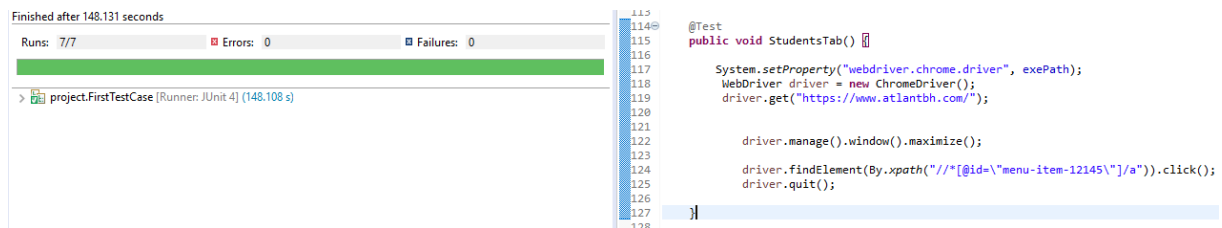
```
100 }
101
102 @Test
103 public void CareersTab() {
104     System.setProperty("webdriver.chrome.driver", exePath);
105     WebDriver driver = new ChromeDriver();
106     driver.get("https://www.atlantbh.com/");
107
108     driver.manage().window().maximize();
109
110     driver.findElement(By.partialLinkText("Caree")).click();
111     driver.quit();
112 }
113
```


Purpose of test case: Checking if Students tab opens correctly.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the link. →Close it.

Expected Output: Students tab should open and user could navigate from it.

Actual Output: Students tab opens correctly.



The screenshot shows the test results for the 'StudentsTab' test case. The test runner indicates that the test passed successfully, with 7/7 runs, 0 errors, and 0 failures. The test took 148.131 seconds to complete. The code snippet on the right shows the implementation of the 'StudentsTab' test method, which sets up the WebDriver, navigates to the Atlantbh website, maximizes the window, and clicks on the 'Students' tab link.

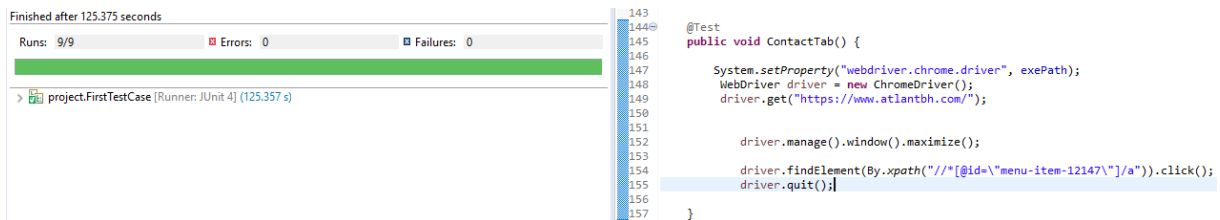
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```

Purpose of test case: Checking if Contact tab opens correctly.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the link. →Close it.

Expected Output: Contact tab should open and user could navigate from it.

Actual Output: Contact tab opens correctly.



The screenshot shows a test runner interface on the left and a code editor on the right. The test runner indicates 'Finished after 125.375 seconds', 'Runs: 9/9', 'Errors: 0', and 'Failures: 0'. A green bar represents the successful test run. The code editor shows the following Java code:

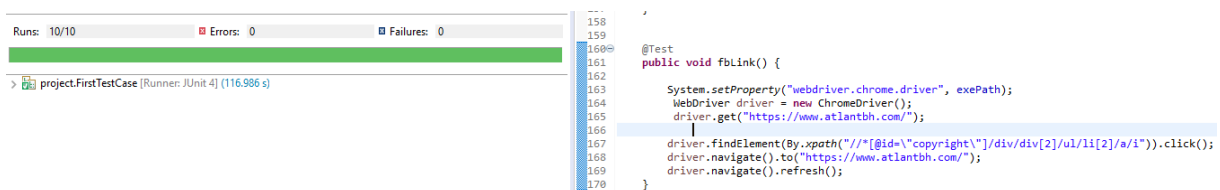
```
143  
144  
145 @Test  
146 public void ContactTab() {  
147     System.setProperty("webdriver.chrome.driver", exePath);  
148     WebDriver driver = new ChromeDriver();  
149     driver.get("https://www.atlantbh.com/");  
150  
151     driver.manage().window().maximize();  
152  
153     driver.findElement(By.xpath("//*[id=\"menu-item-12147\"]/a")).click();  
154     driver.quit();  
155 }  
156  
157
```

Purpose of test case: Checking if link leading to Facebook is working.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the icon. →Navigate driver back to home page.

Expected Output: Facebook page of Atlantbh should open.

Actual Output: Opens correctly.



The screenshot shows a test runner interface on the left and a code editor on the right. The test runner indicates 'Runs: 10/10', 'Errors: 0', and 'Failures: 0'. A green bar represents the successful test run. The code editor shows the following Java code:

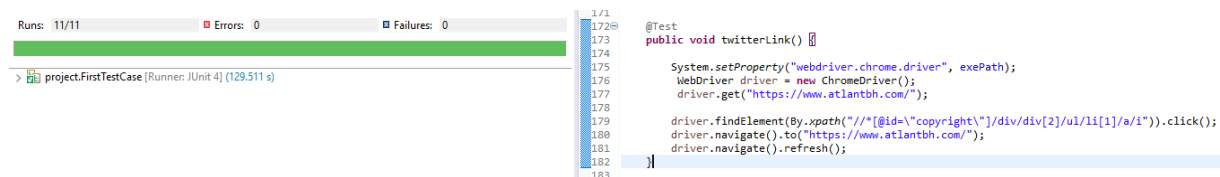
```
158  
159  
160 @Test  
161 public void fbLink() {  
162     System.setProperty("webdriver.chrome.driver", exePath);  
163     WebDriver driver = new ChromeDriver();  
164     driver.get("https://www.atlantbh.com/");  
165  
166     driver.findElement(By.xpath("//*[id=\"copyright\"]/div/div[2]/ul/li[2]/a/1")).click();  
167     driver.navigate().to("https://www.atlantbh.com/");  
168     driver.navigate().refresh();  
169 }  
170  
171
```

Purpose of test case: Checking if link leading to Twitter is working.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the icon. →Navigate driver back to home page.

Expected Output: Twitter page of Atlantbh should open.

Actual Output: Opens correctly.



The screenshot shows the test results for the Twitter link test case. The top bar indicates 'Runs: 11/11', 'Errors: 0', and 'Failures: 0'. Below this, a green progress bar is shown. The test runner output shows 'project.FirstTestCase [Runner: JUnit 4] (129.511 s)'. The code snippet on the right shows the implementation of the 'twitterLink()' test method, which sets the WebDriver, navigates to the Atlantbh website, finds the Twitter link using XPath, clicks it, and refreshes the page.

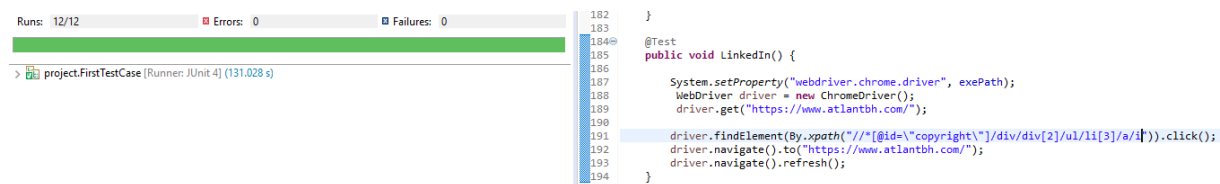
```
172 @Test
173 public void twitterLink() {
174
175     System.setProperty("webdriver.chrome.driver", exePath);
176     WebDriver driver = new ChromeDriver();
177     driver.get("https://www.atlantbh.com/");
178
179     driver.findElement(By.xpath("//*[id=\"copyright\"]/div/div[2]/ul/li[1]/a/1")).click();
180     driver.navigate().to("https://www.atlantbh.com/");
181     driver.navigate().refresh();
182 }
183
```

Purpose of test case: Checking if link leading to LinkedIn is working.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the icon. →Navigate driver back to home page.

Expected Output: LinkedIn page of Atlantbh should open.

Actual Output: Opens correctly.



The screenshot shows the test results for the LinkedIn link test case. The top bar indicates 'Runs: 12/12', 'Errors: 0', and 'Failures: 0'. Below this, a green progress bar is shown. The test runner output shows 'project.FirstTestCase [Runner: JUnit 4] (131.028 s)'. The code snippet on the right shows the implementation of the 'LinkedIn()' test method, which sets the WebDriver, navigates to the Atlantbh website, finds the LinkedIn link using XPath, clicks it, and refreshes the page.

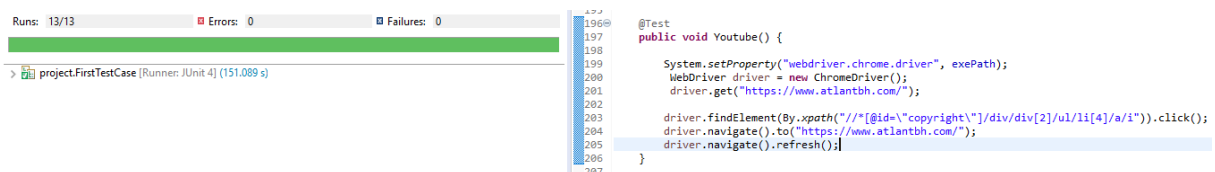
```
182 }
183
184 @Test
185 public void LinkedIn() {
186
187     System.setProperty("webdriver.chrome.driver", exePath);
188     WebDriver driver = new ChromeDriver();
189     driver.get("https://www.atlantbh.com/");
190
191     driver.findElement(By.xpath("//*[id=\"copyright\"]/div/div[2]/ul/li[3]/a/1")).click();
192     driver.navigate().to("https://www.atlantbh.com/");
193     driver.navigate().refresh();
194 }
195
```

Purpose of test case: Checking if link leading to Youtube is working.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the icon. →Navigate driver back to home page.

Expected Output: Youtube page of Atlantbh should open.

Actual Output: Opens correctly.



The screenshot shows the test results for the 'Youtube' test case. The top bar indicates 'Runs: 13/13', 'Errors: 0', and 'Failures: 0'. Below this, a green progress bar is shown. The test results table shows 'project.FirstTestCase [Runner: JUnit 4] (151.089 s)' with a status of 'Success'. To the right, the Java code for the test is displayed, showing the setup of the WebDriver and the execution of the test method.

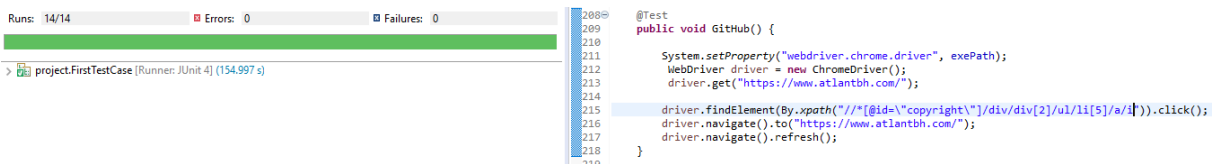
```
196 @Test
197 public void Youtube() {
198
199     System.setProperty("webdriver.chrome.driver", exePath);
200     WebDriver driver = new ChromeDriver();
201     driver.get("https://www.atlantbh.com/");
202
203     driver.findElement(By.xpath("//*[id='copyright']/div/div[2]/ul/li[4]/a/1")).click();
204     driver.navigate().to("https://www.atlantbh.com/");
205     driver.navigate().refresh();
206 }
207
```

Purpose of test case: Checking if link leading to Github is working.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the icon. →Navigate driver back to home page.

Expected Output: Github page of Atlantbh should open.

Actual Output: Opens correctly.



The screenshot shows the test results for the 'Github' test case. The top bar indicates 'Runs: 14/14', 'Errors: 0', and 'Failures: 0'. Below this, a green progress bar is shown. The test results table shows 'project.FirstTestCase [Runner: JUnit 4] (154.997 s)' with a status of 'Success'. To the right, the Java code for the test is displayed, showing the setup of the WebDriver and the execution of the test method.

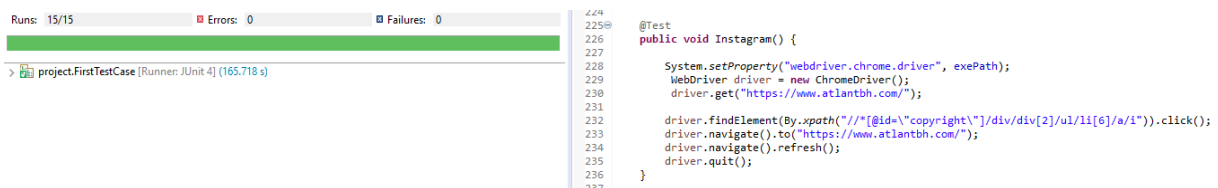
```
208 @Test
209 public void Github() {
210
211     System.setProperty("webdriver.chrome.driver", exePath);
212     WebDriver driver = new ChromeDriver();
213     driver.get("https://www.atlantbh.com/");
214
215     driver.findElement(By.xpath("//*[id='copyright']/div/div[2]/ul/li[5]/a/1")).click();
216     driver.navigate().to("https://www.atlantbh.com/");
217     driver.navigate().refresh();
218 }
219
```

Purpose of test case: Checking if link leading to Instagram is working.

Steps: Navigate to the Atlantbh webpage →Find element by xpath→Click the icon. →Navigate driver back to home page.

Expected Output: Instagram page of Atlantbh should open.

Actual Output: Opens correctly.



The screenshot shows the test results for the 'Instagram' test case. The top bar indicates 'Runs: 15/15', 'Errors: 0', and 'Failures: 0'. Below this, a green bar represents the successful test run. The code on the right is as follows:

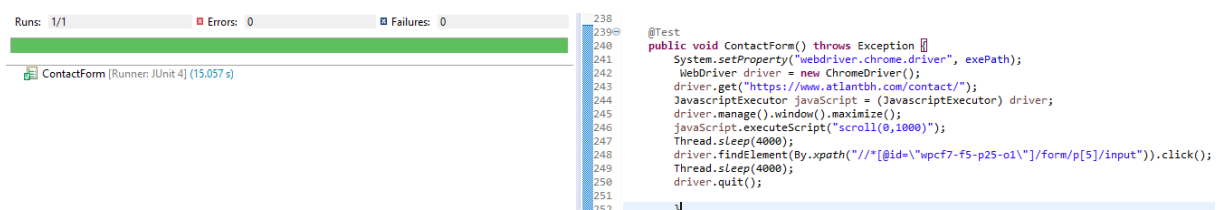
```
225 @Test
226 public void Instagram() {
227     System.setProperty("webdriver.chrome.driver", exePath);
228     WebDriver driver = new ChromeDriver();
229     driver.get("https://www.atlantbh.com/");
230
231     driver.findElement(By.xpath("//*[id=\\\"copyright\\\"/div/div[2]/ul/li[6]/a/1\"")).click();
232     driver.navigate().to("https://www.atlantbh.com/");
233     driver.navigate().refresh();
234     driver.quit();
235 }
236
237
```

Purpose of test case: Checking if Send button is working.

Steps: Navigate to the Career tab on Atlantbh page →Scroll down→Find element by xpath→Click the button→Close the page.

Expected Output: When we click Send button it should send what we have written in form.

Actual Output: Sends the message with clicking on Send button.



The screenshot shows the test results for the 'ContactForm' test case. The top bar indicates 'Runs: 1/1', 'Errors: 0', and 'Failures: 0'. Below this, a green bar represents the successful test run. The code on the right is as follows:

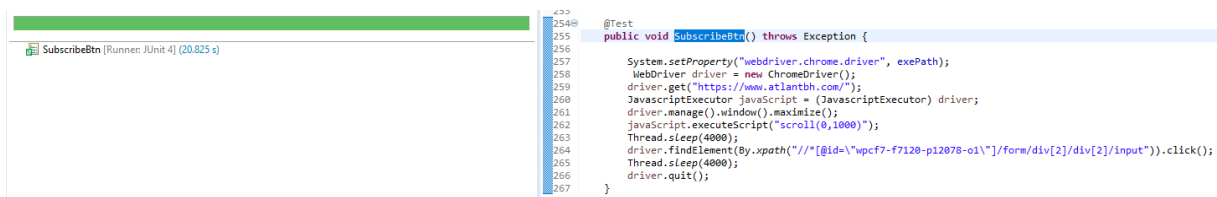
```
238
239 @Test
240 public void ContactForm() throws Exception {
241     System.setProperty("webdriver.chrome.driver", exePath);
242     WebDriver driver = new ChromeDriver();
243     driver.get("https://www.atlantbh.com/contact/");
244     JavascriptExecutor js = (JavascriptExecutor) driver;
245     driver.manage().window().maximize();
246     js.executeScript("scroll(0,1000)");
247     Thread.sleep(4000);
248     driver.findElement(By.xpath("//*[id=\\\"wpcf7-f5-p25-o1\\\"/form/p[5]/input\"")).click();
249     Thread.sleep(4000);
250     driver.quit();
251 }
252
```

Purpose of test case: Checking if Subscribe button works properly.

Steps: Navigate to the Atlantbh Home page→Scroll down →Find element by xpath→Click the button→Close the page.

Expected Output: Subscribe button should work.

Actual Output: Passes correctly.



```
254 @Test
255 public void SubscribeBtn() throws Exception {
256
257     System.setProperty("webdriver.chrome.driver", exePath);
258     WebDriver driver = new ChromeDriver();
259     driver.get("https://www.atlantbh.com/");
260     JavascriptExecutor javascript = (JavascriptExecutor) driver;
261     driver.manage().window().maximize();
262     javascript.executeScript("scroll(0,1000)");
263     Thread.sleep(4000);
264     driver.findElement(By.xpath("//*[id=\"wpcf7-f7120-pl2078-o1\"]/form/div[2]/div[2]/input")).click();
265     Thread.sleep(4000);
266     driver.quit();
267 }
```

4.Test Scenario

In Test case section we have given a proof of a different tested Test cases.The Test cases we have tested are that Main page opens successfully,every tab on a home page,links leading to the Company's social medias and buttons that exists on webpage.

5.Conclusion

So, we can conclude that all of the given test cases are tested successfully.We also have tested complete coverage of test cases and this is our result:

```

238
239 @Test
240 public void ContactForm() throws Exception {
241     System.setProperty("webdriver.chrome.driver", exePath);
242     WebDriver driver = new ChromeDriver();
243     driver.get("https://www.atlantbh.com/contact/");
244     JavascriptExecutor javaScript = (JavascriptExecutor) driver;
245     driver.manage().window().maximize();
246     javaScript.executeScript("scroll(0,1000)");
247     Thread.sleep(4000);
248     driver.findElement(By.xpath("//*[@id=\"wpcf7-f5-p25-o1\"]/form/p[5]/input")).click();
249     Thread.sleep(4000);
250     driver.quit();
251 }
252
253
254 @Test
255 public void SubscribeBtn() throws Exception {
256     System.setProperty("webdriver.chrome.driver", exePath);
257     WebDriver driver = new ChromeDriver();
258     driver.get("https://www.atlantbh.com/");
259     JavascriptExecutor javaScript = (JavascriptExecutor) driver;
260     driver.manage().window().maximize();
261     javaScript.executeScript("scroll(0,1000)");
262     Thread.sleep(4000);
263     driver.findElement(By.xpath("//*[@id=\"wpcf7-f7120-p12078-o1\"]/form/div[2]/div[2]/input")).click();
264     Thread.sleep(4000);
265     driver.quit();
266 }
267
268
269 }
270
271

```

↓

Problems @ Javadoc Declaration Console Coverage

FirstTestCase (Jan 7, 2019 6:52:13 PM)

Element	Coverage	Covered Instructio...	Missed Instructions	Total Instructions
> svvt project	95.7 %	464	21	485