SOFTWARE VERIFICATION, VALIDATION AND TESTING PROJECT

Project: **Testing of Atlantbh webapage**

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Table of Contents

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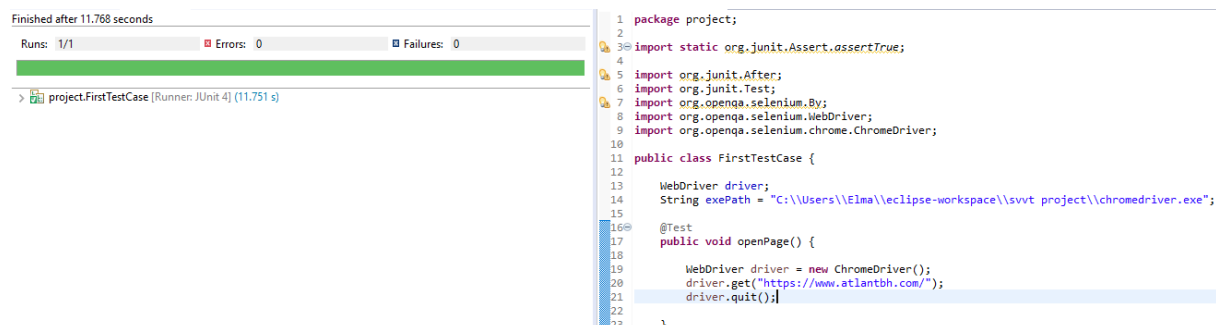
In this section we will be providing all the details with the screenshots about the test cases that we have tested. So let's start!

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.

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.

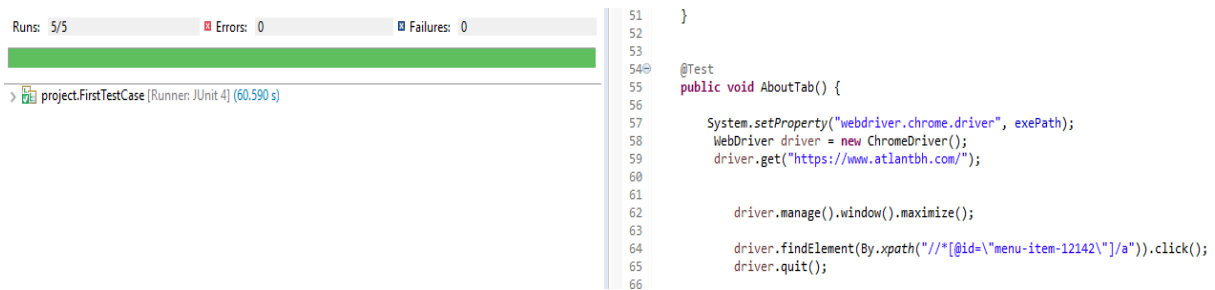Expected Output: The current URL should be same as expected.

Actual Output: Passes to be the same.

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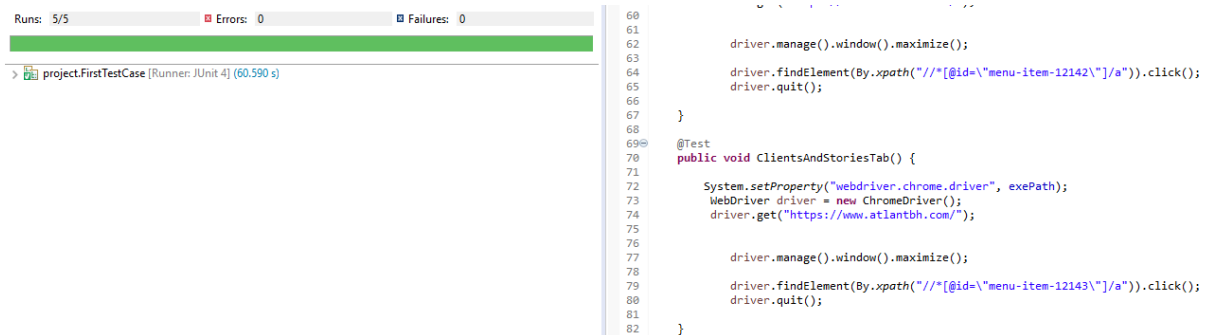
```
51      }
52
53
54⊖     @Test
55      public void AboutTab() {
56
57          System.setProperty("webdriver.chrome.driver", exePath);
58          WebDriver driver = new ChromeDriver();
59          driver.get("https://www.atlantbh.com/");
60
61
62          driver.manage().window().maximize();
63
64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

Runs: 5/5   ☒ Errors: 0   ☒ Failures: 0

> 📊 project.FirstTestCase [Runner: JUnit 4] (60.590 s)

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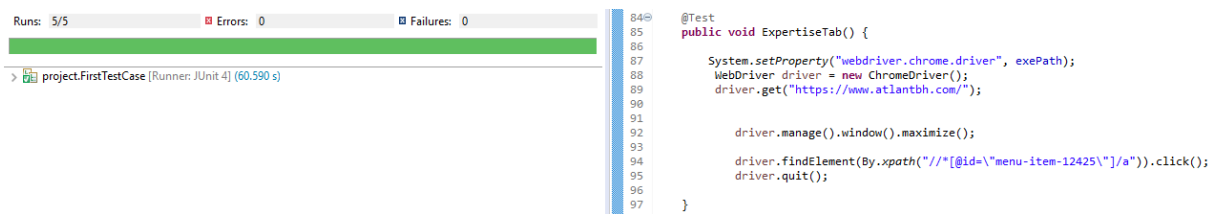
```
60
61
62          driver.manage().window().maximize();
63
64          driver.findElement(By.xpath("//*[@id=\"menu-item-12142\"]/a")).click();
65          driver.quit();
66
67      }
68
69⊖     @Test
70      public void ClientsAndStoriesTab() {
71
72          System.setProperty("webdriver.chrome.driver",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

Runs: 5/5   ☒ Errors: 0   ☒ Failures: 0

> 📊 project.FirstTestCase [Runner: JUnit 4] (60.590 s)

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.

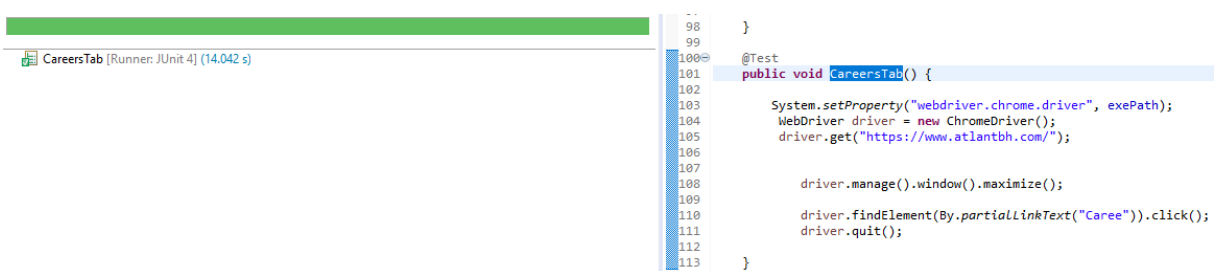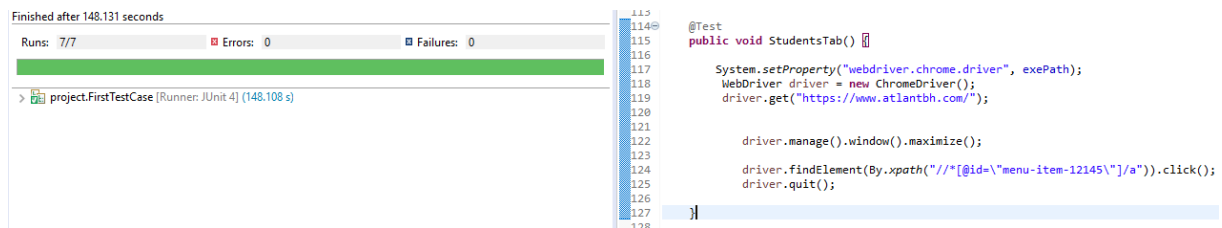Actual Output: Expertise tab opens correctly.


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


```
98      }
99
100  @Test
101  public void CareersTab() {
102
103      System.setProperty("webdriver.chrome.driver", exePath);
104      WebDriver driver = new ChromeDriver();
105      driver.get("https://www.atlantbh.com/");
106
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.

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

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

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

Actual Output: Blog tab opens correctly.

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.


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

Finished after 125.375 seconds
Runs: 9/9   Errors: 0   Failures: 0
project.FirstTestCase [Runner: JUnit 4] (125.357 s)

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.


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

Runs: 10/10   Errors: 0   Failures: 0
project.FirstTestCase [Runner: JUnit 4] (116.986 s)

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.


```
       1/1
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/i")).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.
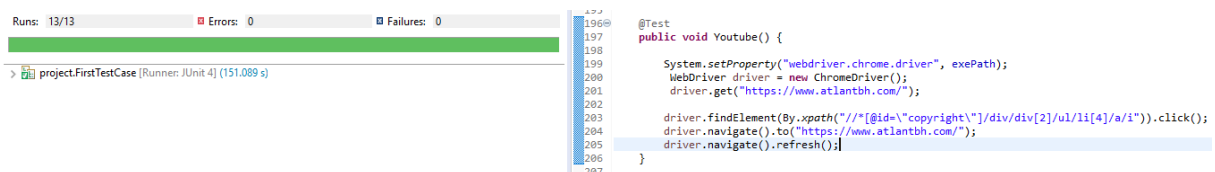

```
182     }
183
184⊖    @Test
185     public void LinkedIn() {
186
187         System.setProperty("webdriver.chrome.driver", exePath);
188         WebDriver driver = new ChromeDriver();
189         driver.get("https://www.atlantbh.com/");
190
191         driver.findElement(By.xpath("//*[@id=\"copyright\"]/div/div[2]/ul/li[3]/a/i")).click();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

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.


```java
@Test
public void Youtube() {

    System.setProperty("webdriver.chrome.driver", exePath);
    WebDriver driver = new ChromeDriver();
    driver.get("https://www.atlantbh.com/");

    driver.findElement(By.xpath("//*[@id=\"copyright\"]/div/div[2]/ul/li[4]/a/i")).click();
    driver.navigate().to("https://www.atlantbh.com/");
    driver.navigate().refresh();
}
```

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.

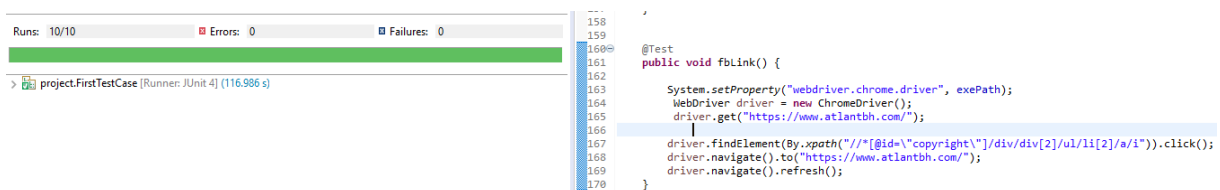Expected Output: Github page of Atlantbh should open.

Actual Output: Opens correctly.


```java
@Test
public void GitHub() {

    System.setProperty("webdriver.chrome.driver", exePath);
    WebDriver driver = new ChromeDriver();
    driver.get("https://www.atlantbh.com/");

    driver.findElement(By.xpath("//*[@id=\"copyright\"]/div/div[2]/ul/li[5]/a/i")).click();
    driver.navigate().to("https://www.atlantbh.com/");
    driver.navigate().refresh();
}
```

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.
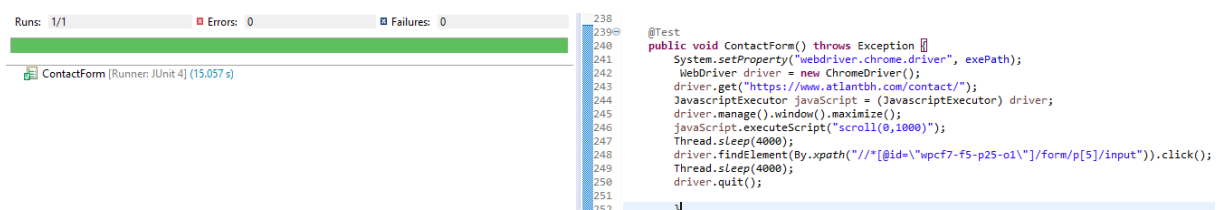
```
Runs: 15/15          Errors: 0          Failures: 0
```
```
> project.FirstTestCase [Runner: JUnit 4] (165.718 s)
```
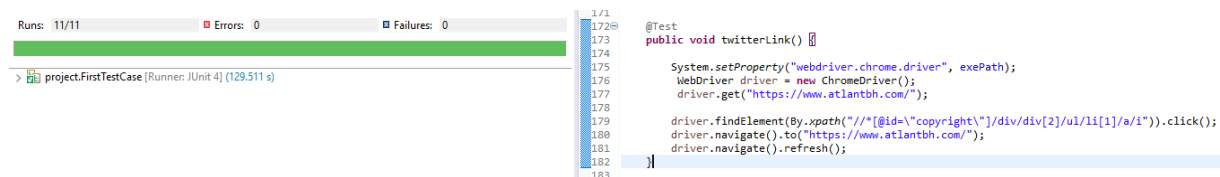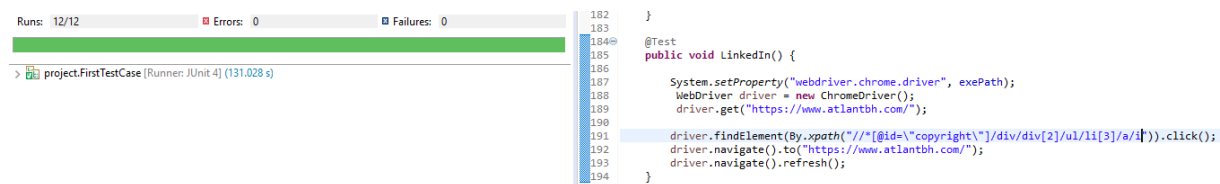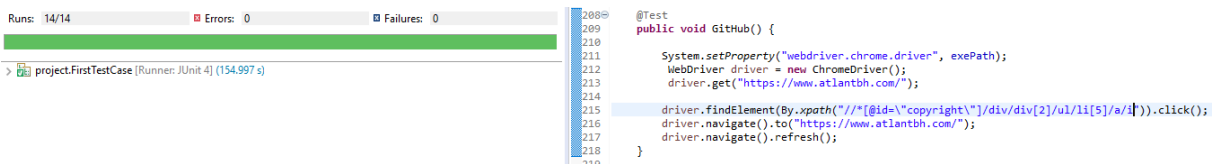```java
224
225   @Test
226   public void Instagram() {
227
228   System.setProperty("webdriver.chrome.driver", exePath);
229   WebDriver driver = new ChromeDriver();
230   driver.get("https://www.atlantbh.com/");
231
232   driver.findElement(By.xpath("//*[@id=\"copyright\"]/div/div[2]/ul/li[6]/a/i")).click();
233   driver.navigate().to("https://www.atlantbh.com/");
234   driver.navigate().refresh();
235   driver.quit();
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.

```
Runs: 1/1   Errors: 0   Failures: 0
```
```
ContactForm [Runner: JUnit 4] (15.057 s)
```
```java
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    }
```

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.


```java
@Test
public void SubscribeBtn() throws Exception {

    System.setProperty("webdriver.chrome.driver", exePath);
    WebDriver driver = new ChromeDriver();
    driver.get("https://www.atlantbh.com/");
    JavascriptExecutor javaScript = (JavascriptExecutor) driver;
    driver.manage().window().maximize();
    javaScript.executeScript("scroll(0,1000)");
    Thread.sleep(4000);
    driver.findElement(By.xpath("//*[@id=\"wpcf7-f7120-p12078-o1\"]/form/div[2]/div[2]/input")).click();
    Thread.sleep(4000);
    driver.quit();
}
```

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:
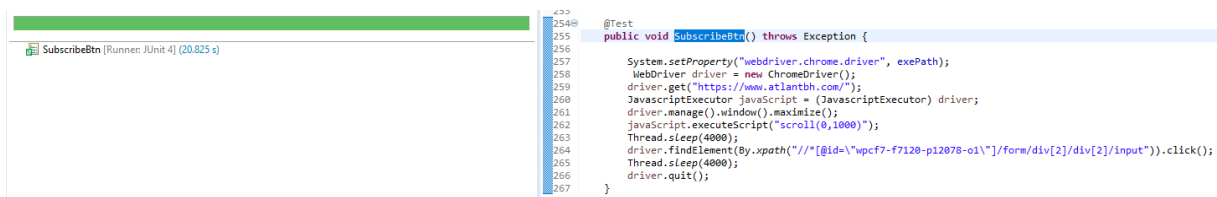
```
238
239⊖     @Test
240      public void ContactForm() throws Exception {
241          System.setProperty("webdriver.chrome.driver", exePath);
242          WebDriver driver = new ChromeDriver();
243          driver.get("https://www.atlantbh.com/contact/");
244          JavascriptExecutor javaScript = (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
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-p12078-o1\"]/form/div[2]/div[2]/input")).click();
265          Thread.sleep(4000);
266          driver.quit();
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