SOFTWARE VERIFICATION, VALIDATION AND TESTING

TESTING DOCUMENTATION

ATLANTBH TESTING

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1. Introduction

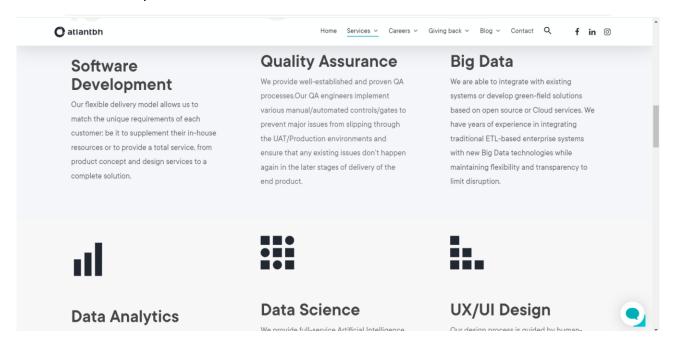
1.1. About the Project

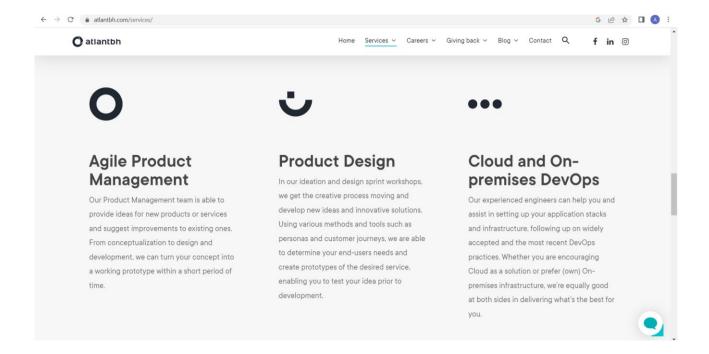
Our group were testing the webpage of IT company named "Atlantbh". They deliver modern software systems, transforming your ideas into innovative products with the highest quality, modern design and cost-effective solution. They are dedicated to providing trusted partnerships, whether you need help on an existing software project or with creating a new product from scratch.

Link: https://www.atlantbh.com/

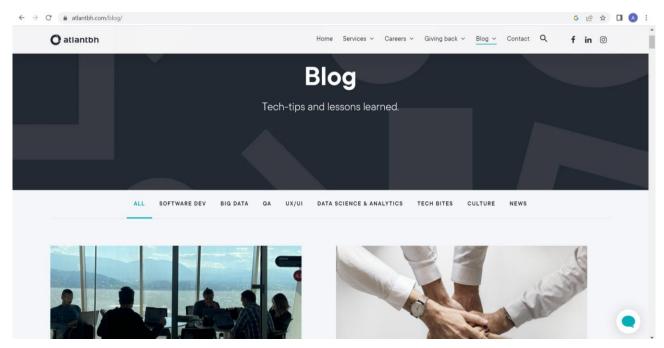
1.2. Project Functionalities and Screenshots

Atlantbh has list of interesting **services** as well as: Software Development, Quality Assurance, Big Data, Data Analytics, Data Science, UX/UI Design, Agile Product Management, Product Design, Cloud and On-premises DevOps. Their goals is to provide you with end-to-end software development services catered to your business needs.

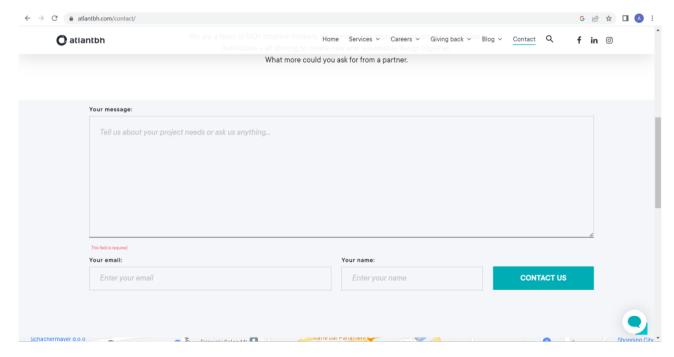




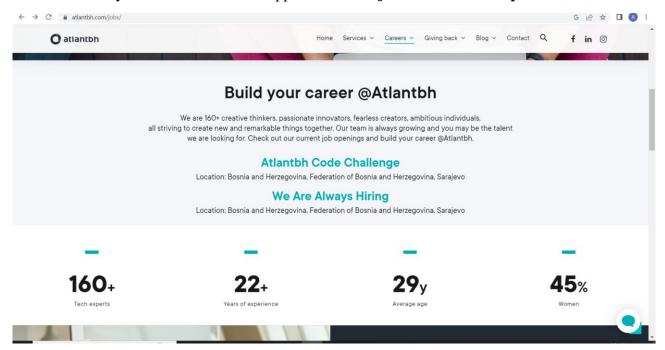
In this website we can also find many **blogs** regarding to interesting topics as well as QA, culture, software development...



There are also some **contact** forms by witch you can ask them whatever you want:



On this website you can also find some opportunities for **jobs and scholarships**:



2. Test Plan

2.1. Scope

We plan testing whole page, almost every feature.

2.2. Testing Environment and Tools

We use Selenium and ChromeDriver. For IDE we use Eclipse. We write code in Java programming language.

3. Test Execution

3.1. Test Titles and Search Icon Functionality

Enter the home page and check functionalities of its titles and test functionality of search icon.

Test Name: Titles test Description: Test if navigation to titles works and test search icon.				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
 Go to home page Click on each title Navigate back to home page Input value in blank field of search icon and press search button. 	-input value for search icon	We expected to be successfully guided through pages and search icon functionality.	We were successfully guided through pages and search icon functionality	PASS
Notes:	1			

3.2. Test Tabs

Test to check if we can access different tabs and manipulate them.

```
Test Name: Tab test

Description: Test opening tabs and manipulation with them.

Pre-condition(s):
```

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1.Start from Home page.				
2. Navigate to Facebook	-put credentials	We expected to be	We have been	PASS
tab and go back to Home	for LinkedIn sign	successfully	successfully guided	
page. (close Facebook	in	guided through	through tabs.	
tab)		tabs.	_	
3. Navigate to LinkedIn				
tab				
and fill sign in form and				
go back to Home page.				
(close LinkedIn tab)				
4. Navigate to Instagram				
field and go back to Home				
page. (close Instagram				
tab)				

Notes:

```
//2
@Test
void testTabs() throws InterruptedException {
                      webDriver.get(baseUrl);
                     String handle1 = webDriver.getWindowHandle();
System.out.println(handle1);
                     webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[8]/a[1]")).click();
for (String handle: webDriver.getWindowHandles()) {
    if (!handle.equals(handle!)) {
        webDriver.switchTo().window(handle);
        break;
}
                            }
                     }
                     Thread.sleep(5000);
                     webDriver.close();
                     webDriver.switchTo().window(handle1);
                     Thread.sleep(2000);
              webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[8]/a[2]")).click();
for (String handle2: webDriver.getWindowHandles()) {
   if (!handle2.equals(handle1)) {
      webDriver.switchTo().window(handle2);
      break;
}
              WebElement namee=webDriver.findElement(By.xpath("/html/body/div/main/div[2]/div[1]/form/div[1]/input"));
namee.sendKeys("nametesting");
WebElement passwordd= webDriver.findElement(By.xpath("/html/body/div/main/div[2]/div[1]/form/div[2]/input"));
passwordd.sendKeys("testpassword");
               Thread.sleep(5000);
                   webDriver.close():
                                                                                                                                             78:5:2510
                                                                               Writable
                                                                                                               Smart Insert
```

3.3. Test Contact Form

User should go to page Contact and fill in form.

Test Name: Tab Contact Form				
Description: Test features	s of the form.			
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
 Start from Home page. Go to Contact field. Fill out the form. 	-put values for message, email and name	We expected to fill out form successfully.	We expected to fill out form successfully.	PASS
Notes:				

3.4. Test Services Features

66

User go to services page and inspect header features.

Test Name: Tab Services Features Description: Test header features as name and link				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
 Go from Home page to Service page. Then it will be tested if there exists 2 header elements. Click to link Navigate back to Services 		We expected to pass all header features and go successfully to link and navigate back.	We have successfully passed all header features and go to link and navigate back.	PASS
Notes:		-	,	

```
67
68
        //4
69⊜
        @Test
        void testServicesFeatures() throws InterruptedException {
70
            webDriver.get(baseUrl);
webDriver.findElement(By.cssSelector("#menu-item-1451 > a")).click();
71
72
73
            Thread.sleep(3000);
74
            String employee=webDriver.findElement(By.className("hero-header")).getText();
75
            assertTrue(employee.contains("Esena Gušić"));
78
            WebElement position = webDriver.findElement(By.className("small-hero-paragraph"));
79
            assertEquals("Product Manager @Atlantbh", position.getText());
80
            WebElement a= webDriver.findElement(By.className("hero-link"));
assertEquals("MEET ESENA AND OTHER ATLANTERS>", a.getText());
81
82
83
84
            webDriver.findElement(By.className("hero-link")).click();
85
            webDriver.navigate().back();
86
87
            Thread.sleep(3000);
88
89
        }
90 }
```

3.5. Test Email

Test email in Scholarship page.

Test Name: Test Email	Test Name: Test Email				
Description: Test email be	utton in Scholarsh	nip Page			
Pre-condition(s):					
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:	
1.From Home page click to Givinig back, then click to Scholarship 2.Then click to other link regarding to scholarship for 2022/2023 3.Inspect some elements in header 4.Navigate back 5.Fill in email input field.	-put values in email form	We expected to pass all header features and go successfully back and fill in email form	We have passed all header features and go successfully back and fill in email form	PASS	
Notes:	1		1		

3.6. Test Relative Locator

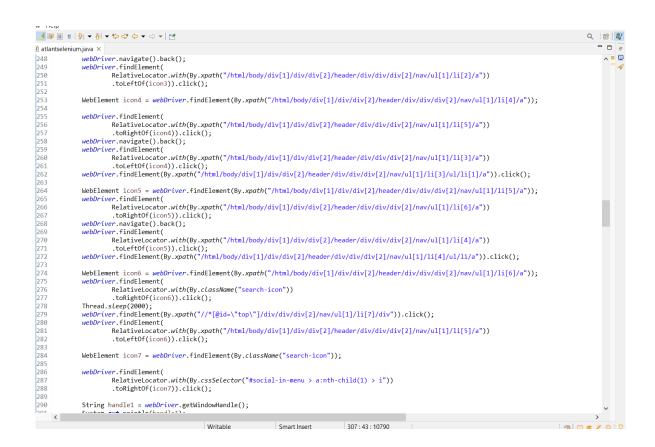
In this test we checked relative locators of Home page icons.

Test Name: Tab Relative I	Locators			
Description: Test email b	utton in Scholars	ship Page		
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1.On the Home page we		We expected to	We have passed all	PASS
checked first icon Home.		pass all relative	tests by testing one	
Button Services which		locators tests.	by one	
stands right of Home				
should be clicked.				
2. Next main element is				
Services, should click to				
Careers and then click to				
Jobs, after that navigate				
back and go to Home				
page.				
3.Next main element is				
Careers, should click to				
Giving back and then				
click to Scholarship after				
that navigate back and				
click to Services.				
4. Next main element is				
Giving back, should click				
to Blog, after that				
navigate back and make				
clicks to Careers and Jobs.				
5. Next main element is				
Blog through relative				
locator we click to				
Contact, then navigate				
back. Through relative				
locator we click to Giving				
back and Scholarship.				
6. Now main element is				
Contact and through				
relative locator we click				
on search icon and then				
press button x. After that				
we click on Blog.				
7.Main element is search				
icon, we click on				
Facebook tab, then back				
control to main tab and				
close Facebook tab. Then				
click to Contact.				

Notes: Because of the length and complexity we run tests one by one.

```
220
221
222
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2248
225
226
227
228
229
230
231
232
233
234
235
236
237
                  //6
@Test
                  void testrelativeLocators()throws InterruptedException {
                           webDriver.get(baseUrl);
WebElement icon1= webDriver.findElement(By.xpath("//*[@id=\"menu-item-1081\"]/a"));
webDriver.findElement(
                                             RelativeLocator.with(By.xpath("//*[@id=\"menu-item-1451\"]/a"))
                                               .toRightOf(icon1)).click();
                           WebElement icon2 = webDriver.findElement(By.xpath("//*[@id=\"menu-item-1451\"]/a"));
                           webDriver.findElement(
                           RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[3]/a"))
.toRightOf(icon2)).click();
webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[3]/ul/li[1]/a")).click();
                            webDriver.navigate().back();
238
239
240
                           webDriver.findElement(
    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[1]"))
    .toLeftOf(icon2)).click();
241
242
                           243
244
245
246
247
248
                                              RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[4]/a"))
                              .toRightOf(icon3)).click();

ebDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/ul/li/a")).click();
                           webDriver.navigate().back();
webDriver.findElement(
249
                                             RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[2]/a"))
.toLeftOf(icon3)).click();
250
251
252
253
254
255
256
257
258
259
260
                           WebElement icon4 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[4]/a"));
                           \label{lement} we bDriver. find Element ($Relative Locator.with (By.xpath("/html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[5]/a"))
                                              .toRightOf(icon4)).click();
                           . to Left Of (icon 4)). click (); \\ we b Driver. find Element (By. xpath ("html/body/div[1]/div/div[2]/header/div/div[2]/nav/ul[1]/li[3]/ul/li[1]/a")). click (); \\ we be described by the context of t
 262
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                                                                                                                                                                                             307:43:10790
```



3.7. Scholarship Form Test

In this test we navigate to pages and fill in scholarship form.

Test Name: Test Scholarsh	Test Name: Test Scholarship Form				
Description: Test Scholar	ship Form fileds				
Pre-condition(s):					
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:	
1.Start from Home page, then click to Giving back and Scholarships. 2. Click to link regarding to scholarship 2022/2023 3. At the bottom of the page fill in empty fields (reply, name, email, website) and click first statement	-put values in fields reply, name, email, website	We expected to successfully pass to scholarship form and fill in empty fields	We have successfully passed to scholarship form and fill in empty fields	PASS	
Notes:					

3.8. Test Application Form

User should go through some links and fill in application form.

Test Name: Test Application Form					
Description: Navigate to application form then fill it					
Pre-condition(s):					
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:	
1.On the Home page click to link "Meet our experts" 3. Accept cookies 2. Then click next link "Join now" 3. Show less paragraph 4. Then click Atlantbh Code challenge 5. Clik to application on the navbar 6. Fill in first empty fields 7. Click to add button beside Education, fill in empty fields and click save button 8. Click to add button beside Experience, fill in form and click save button 9. Fill in fields for Summary and Cover letter 10. Click "yes"	-put values in fields for first name, last name, email, phone, address - fields in Education form - fields in Experience form	We expected to successfully pass to application form and fill in empty fields	We have successfully passed to application form and fill in empty fields	PASS	
Notes:	<u> </u>				

3.9. Test QAmp page functionalities

This test will inspect elements, email and source on page QAmp.

•		1 6 1		
Test Name: Test QAmp				
Description: Test QAmp	elements, mail and	source		
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1.Start from Home page, click to Careers, then click to Atlantbh QAmp 2. Inspect 3 elements and source on the page 3. Fill in email form	-put values in email	We expected to successfully inspect elements, source and fill in email form	We have successfully inspected elements, source and fill in email form	PASS
Notes:				

```
//9
@Test
void testQAmp() throws InterruptedException {
webDriver.get(baseUr!);
Thread.sleep(3000);
webDriver.findElement(By.xpath("/*[@id=\"menu-item-17838\"]/a")).click();
webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div[4]/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div/div[2]/div
```

3.10. Test Search Icon

User click to search icon and go to page and navigate back and close icon.

Test Name: Test Search Icon				
Description: Test Search icon functionalities and arrows buttons on the page				
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1.Start from Home page, click to search icon and click to search button. 2. Click on the bottom of the site to next arrow 3. On the bottom of the site click to previous arrow 4. Go back to Home page 5. Click again on the search icon 6. Click button x		We expected to successfully inspect elements and search icon functionalities	We have successfully inspected elements and search icon functionalities	PASS
Notes:		L		

3.11. Test Jobs links

User can scroll in Jobs page and click to one link, then go back to previous page and choose another link.

Test Name: Tab Search Icon				
Description: Test Search	icon functionalit	ies and arrows on the page	ge	
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
 Start from Home page, go to Careers and click Jobs. We can scroll a little bit to see 2 links Click to first link Go back to page Click to another link Go back to page 		We expected scroll works successfully and we go to both links	Scroll works successfully and we go to both links	PASS
Notes:	1			

3.12. Test Quality Assurance

User go to read more and click to page numbers

Test Name: Test page numbers					
Description: Test page number buttons					
Pre-condition(s):					
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:	
1.Start from Home page, click to Services and click to Quality Assurance folder. 2. Click "Hire our teams" and navigate back. 3. Click "Read more" button 4. On the bottom of the page click to number 2, then to number 3 and 4.		We expected to links and number buttons work properly	Links and number buttons work properly	PASS	
Notes:					

3.13. Test Photo

User go to Quality Assurance page and click link. Then see many photos, click on the first, then click wherever on the photo to exit. After that, navigate to previous page and fill in form.

Test Name: Test Photo Description: Go through link to photo and navigate back to previous page and fill in the form.					
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:	
1.Start from Home page, go to Services and select Quality Assurance tab. 2. Click the first link 3. Click first photo 4.Click somewhere to exit 5. Navigate back to previous page 6. Fill in the form on the bottom of the page	-Input values for message, email and name	We expected photo to be clickable and to fill in form successfully	Photo is clickable and form is filled in successfully	PASS	
Notes:	1	1	1		

3.14. Test QA elements

User can go to Blog page and select QA tab. Then click on the link of the first photo and like emoji on the post.

Test Name: Test QA elements					
Description: Inspect element on the Blog page and QA tab					
Pre-condition(s):					
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:	
1.Start from Home page, click to Blog and select QA tab. 2. Click on the first photo 3. Click on the first link 4. Like the post 5. Navigate back		We expected that photo and emoji are clickable	Photo and emoji are clickable	PASS	
Notes:					

3.15. Test Map View

User go to Contact page and by scrolling see it's features.

Test Name: Test Map View						
Description: Scrolling to see features						
Pre-condition(s):						
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:		
 Start from Home page, click to Contact. Scroll down to form, then scroll to title above Scroll down to the bottom of the page to see map 		We expected scroll functionate properly and user can see features	User can clearly see features	PASS		
Notes:						

```
//15
@Test
void testHapView() throws InterruptedException {
    webDriver.get(baseUrl);

    JavascriptExecutor js = (JavascriptExecutor) webDriver;

    WebElement contactLink = webDriver.findElement(By.linkText("Contact"));
    js.executeScript("arguments[0].click()", contactLink);

    js.executeScript("window.scrollBy(0, 600);");
    Thread.sleep(1000);
    js.executeScript("window.scrollBy(0, -600);");
    Thread.sleep(1000);

    WebElement map = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div/div[3]/div[2]"));
    js.executeScript("arguments[0].scrollIntoView(true);", map);

    Thread.sleep(3000);
}
```

9. Conclusion

9.1. Testing Summary

Provide a summary of all your executed tests. Something like this would be alright:

Testing Tool	Total Tests	Passed Tests	Failed Tests
We use Selenium and ChromeDriver. For IDE we use Eclipse		15	0

9.2. Final Thoughts

We suppose testing Atlantbh webpage is done on the appropriate way. We tried to cover all features and important informations. This webpage is very interesting and easy accessible to users. We learned a lot through this project.