SOFTWARE VERIFICATION, VALIDATION AND TESTING

TESTING DOCUMENTATION

ATLANTBH TESTING

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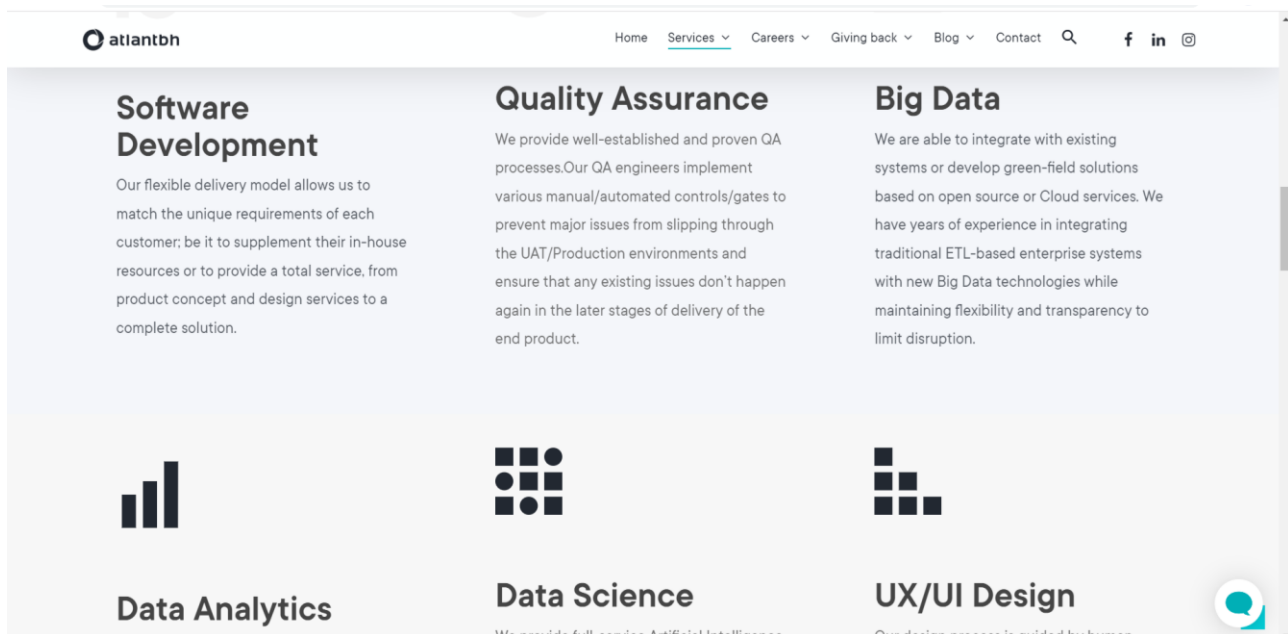
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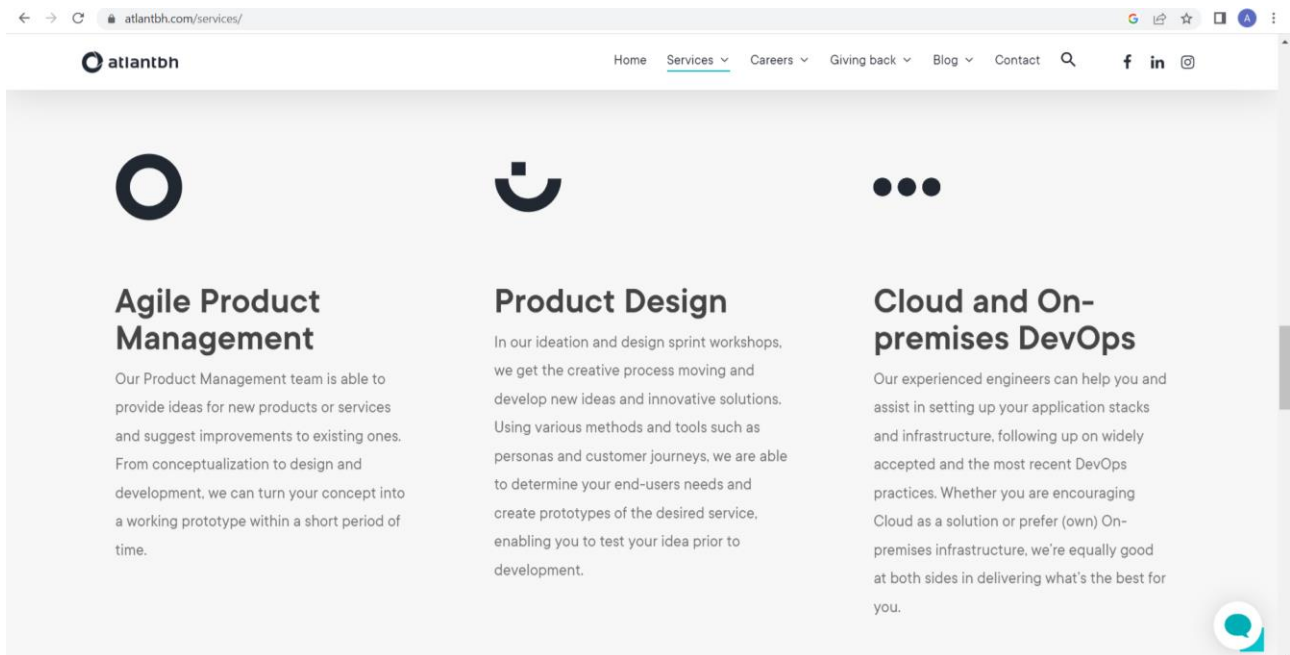
1.1. About the Project

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/
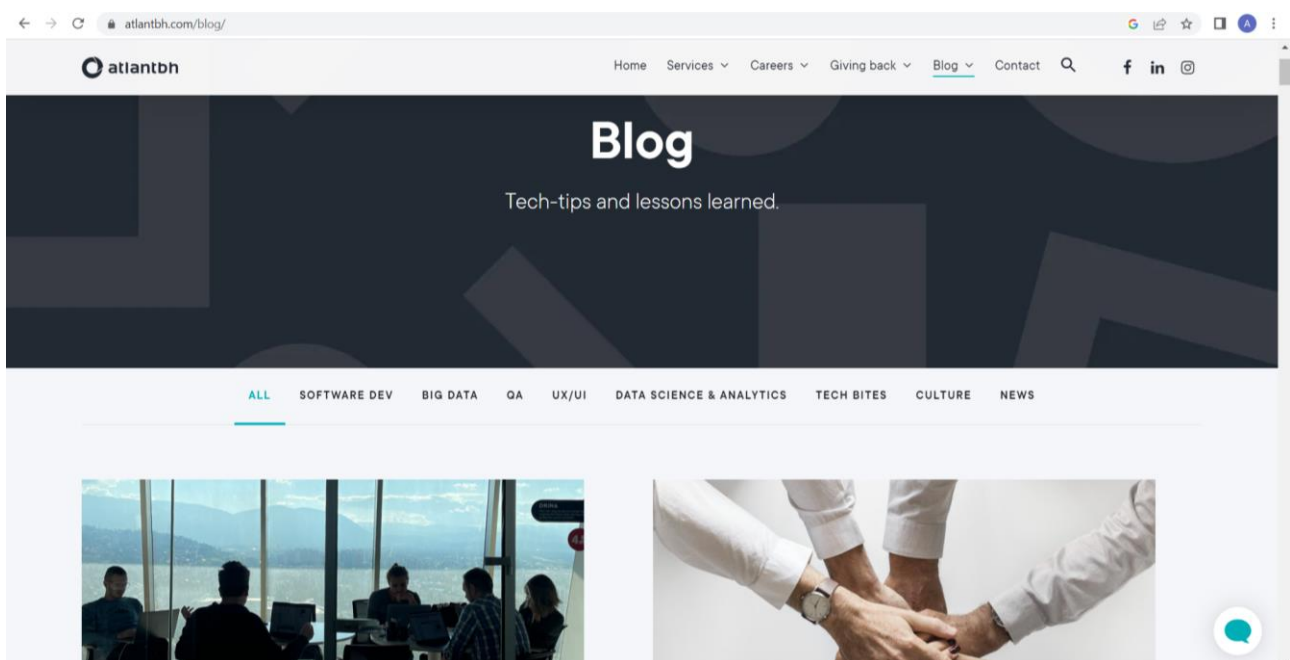
1.2. Project Functionalities and Screenshots

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.

Agile Product Management

Our Product Management team is able to provide ideas for new products or services and suggest improvements to existing ones. From conceptualization to design and development, we can turn your concept into a working prototype within a short period of time.

Product Design

In our ideation and design sprint workshops, we get the creative process moving and develop new ideas and innovative solutions. Using various methods and tools such as personas and customer journeys, we are able to determine your end-users needs and create prototypes of the desired service, enabling you to test your idea prior to development.

Cloud and On-premises DevOps

Our experienced engineers can help you and assist in setting up your application stacks and infrastructure, following up on widely accepted and the most recent DevOps practices. Whether you are encouraging Cloud as a solution or prefer (own) On-premises infrastructure, we're equally good at both sides in delivering what's the best for you.

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:

4

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.				
Pre-condition(s):				
Test Steps:	**Test Data:**	**Expected Result:**	**Actual Result:**	**Status:**
1. Go to home page 2. Click on each title 3. Navigate back to home page 4.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
    @Test
    void testTitles()throws InterruptedException {
        webDriver.get(baseUrl);
        String title= webDriver.getTitle();
        assertEquals("Atlantbh Sarajevo - We Make Things Look Easy", title);

        webDriver.navigate().to(baseUrl+"/services");
        assertEquals("Services - Atlantbh Sarajevo", webDriver.getTitle());

        webDriver.navigate().to(baseUrl+"/jobs");
        assertEquals("Jobs - Atlantbh Sarajevo", webDriver.getTitle());

        webDriver.navigate().to(baseUrl+"/scholarships");
        assertEquals("Scholarships - Atlantbh Sarajevo", webDriver.getTitle());

        webDriver.navigate().to(baseUrl+"/blog");
        assertEquals("Blog - Atlantbh Sarajevo", webDriver.getTitle());

        webDriver.navigate().to(baseUrl+"/contact");
        assertEquals("Contact - Atlantbh Sarajevo", webDriver.getTitle());

        webDriver.get(baseUrl);
        webDriver.findElement(By.className("search-icon")).click();
        WebElement search = webDriver.findElement(By.id("is-search-input-0"));
        search.sendKeys("Dynamic Programming");
        webDriver.findElement(By.xpath("//*[@id=\"top\"]/div/div/div[2]/nav/ul[1]/li[7]/form/button/span[2]")).click();

    }
}
```

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 tab and go back to Home page. (close Facebook tab) 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)	-put credentials for LinkedIn sign in	We expected to be successfully guided through tabs.	We have been successfully guided through tabs.	PASS

Notes:

```java
78
79      //2
80⊖     @Test
81      void testTabs() throws InterruptedException {
82          webDriver.get(baseUrl);
83
84          String handle1 = webDriver.getWindowHandle();
85          System.out.println(handle1);
86
87          webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[8]/a[1]")).click();
88          for (String handle: webDriver.getWindowHandles()) {
89              if (!handle.equals(handle1)) {
90                  webDriver.switchTo().window(handle);
91                  break;
92              }
93          }
94
95          Thread.sleep(5000);
96
97          webDriver.close();
98
99          webDriver.switchTo().window(handle1);
100
101         Thread.sleep(2000);
102
103
104         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[8]/a[2]")).click();
105         for (String handle2: webDriver.getWindowHandles()) {
106             if (!handle2.equals(handle1)) {
107                 webDriver.switchTo().window(handle2);
108                 break;
109             }
110         }
111         WebElement namee=webDriver.findElement(By.xpath("/html/body/div/main/div[2]/div[1]/form/div[1]/input"));
112         namee.sendKeys("nametesting");
113         WebElement passwordd= webDriver.findElement(By.xpath("/html/body/div/main/div[2]/div[1]/form/div[2]/input"));
114         passwordd.sendKeys("testpassword");
115
116
117         Thread.sleep(5000);
118
119         webDriver.close();
```

Writable	Smart Insert	78 : 5 : 2510

```
102
103
104     webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[8]/a[2]")).click();
105     for (String handle2: webDriver.getWindowHandles()) {
106         if (!handle2.equals(handle1)) {
107             webDriver.switchTo().window(handle2);
108             break;
109         }
110     }
111     WebElement namee=webDriver.findElement(By.xpath("/html/body/div/main/div[2]/div[1]/form/div[1]/input"));
112     namee.sendKeys("nametesting");
113     WebElement passwordd= webDriver.findElement(By.xpath("/html/body/div/main/div[2]/div[1]/form/div[2]/input"));
114     passwordd.sendKeys("testpassword");
115
116
117     Thread.sleep(5000);
118
119       webDriver.close();
120
121       webDriver.switchTo().window(handle1);
122
123     Thread.sleep(2000);
124
125       webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[8]/a[3]")).click();
126     for (String handle3: webDriver.getWindowHandles()) {
127         if (!handle3.equals(handle1)) {
128             webDriver.switchTo().window(handle3);
129             break;
130         }
131     }
132     Thread.sleep(5000);
133
134     webDriver.close();
135
136     webDriver.switchTo().window(handle1);
137
138 Thread.sleep(2000);
139
140     }
141 }
142
143
144
```

3.3. Test Contact Form

User should go to page Contact and fill in form.

Test Name: Test Contact Form				
Description: Test features of the form.				
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Start from Home page. 2. Go to Contact field. 3. 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:				

```
143
144
145         //3
146⊖      @Test
147      void testContactForm()throws InterruptedException {
148          webDriver.get(baseUrl);
149          WebElement contact= webDriver.findElement(By.xpath("//*[@id=\"menu-item-14574\"]/a"));
150          contact.click();
151          Thread.sleep(2000);
152
153          WebElement message= webDriver.findElement(By.name("ask-us"));
154          message.sendKeys("test");
155
156          WebElement email= webDriver.findElement(By.name("form-input-mail"));
157          email.sendKeys("test@gmail.com");
158
159          WebElement name = webDriver.findElement(By.name("form-input-text"));
160          name.sendKeys("Tessttt");
161          Thread.sleep(3000);
162
163      }
164 }
165
166 |
167
```

3.4. Test Services Features

User go to services page and inspect header features.

Test Name: Test Services Features				
Description: Test header features as name and link				
Pre-condition(s):				
Test Steps:	**Test Data:**	**Expected Result:**	**Actual Result:**	**Status:**
1. Go from Home page to Service page. 2. Then it will be tested if there exists 2 header elements. 3.Click to link 4.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:				

```
66
67
68      //4
69⊖     @Test
70      void testServicesFeatures() throws InterruptedException  {
71          webDriver.get(baseUrl);
72          webDriver.findElement(By.cssSelector("#menu-item-1451 > a")).click();
73          Thread.sleep(3000);
74
75          String employee=webDriver.findElement(By.className("hero-header")).getText();
76          assertTrue(employee.contains("Esena Gušić"));
77
78          WebElement position = webDriver.findElement(By.className("small-hero-paragraph"));
79          assertEquals("Product Manager @Atlantbh", position.getText());
80
81          WebElement a= webDriver.findElement(By.className("hero-link"));
82          assertEquals("MEET ESENA AND OTHER ATLANTERS>", a.getText());
83
84          webDriver.findElement(By.className("hero-link")).click();
85          webDriver.navigate().back();
86
87          Thread.sleep(3000);
88
89      }
90 }
91
```

3.5. Test Email

Test email in Scholarship page.

Test Name: Test Email				
Description: Test email button in Scholarship 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:				

```
190
191
192    //5
193⊖   @Test
194    void testEmail()throws InterruptedException  {
195        webDriver.get(baseUrl);
196
197        webDriver.findElement(By.xpath("//*[@id=\"menu-item-18684\"]/a")).click();
198        webDriver.findElement(By.cssSelector("#menu-item-18685 > a")).click();
199        webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[6]/div[2]/div/div/div[2]/div/div[2]/div/a[2]")).click();
200        Thread.sleep(2000);
201
202        WebElement elementi= webDriver.findElement(By.xpath("//*[@id=\"page-header-bg\"]/div[2]/div/div/div/h1"));
203        assertEquals("Atlantbh call for Scholarships 2022/2023", elementi.getText());
204
205
206        WebElement elementa= webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div[2]/div/div/div/div/span[2]"));
207        assertEquals("October 3, 2022", elementa.getText());
208
209        String elementb= webDriver.findElement(By.xpath("//*[@id=\"single-below-header\"]/span[1]/span/a")).getText();
210        assertTrue(elementb.contains("Alma Muratovic") );
211
212        webDriver.navigate().back();
213
214        WebElement email= webDriver.findElement(By.xpath("//*[@id=\"mlb2-5847491\"]/div/div/div[1]/form/div[1]/div/div/input"));
215        email.sendKeys("test@gmail.com");
216        Thread.sleep(2000);
217
218    }
219
220    }
221
222
```

3.6. Test Relative Locator

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

Test Name: Test Relative Locators				
Description: Test email button in Scholarship Page				
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1.On the Home page we checked first icon Home. Button Services which 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.		We expected to pass all relative locators tests.	We have passed all tests by testing one by one	PASS

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

```java
220
221
222
223        //6
224⊖       @Test
225        void testrelativeLocators()throws InterruptedException  {
226            webDriver.get(baseUrl);
227            WebElement icon1= webDriver.findElement(By.xpath("//*[@id=\"menu-item-1081\"]/a"));
228            webDriver.findElement(
229                    RelativeLocator.with(By.xpath("//*[@id=\"menu-item-1451\"]/a"))
230                    .toRightOf(icon1)).click();
231
232            WebElement icon2 = webDriver.findElement(By.xpath("//*[@id=\"menu-item-1451\"]/a"));
233            webDriver.findElement(
234                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/a"))
235                    .toRightOf(icon2)).click();
236            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/ul/li[1]/a")).click();
237            webDriver.navigate().back();
238            webDriver.findElement(
239                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[1]"))
240                    .toLeftOf(icon2)).click();
241
242            WebElement icon3 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/a"));
243
244            webDriver.findElement(
245                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/a"))
246                    .toRightOf(icon3)).click();
247            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/ul/li/a")).click();
248            webDriver.navigate().back();
249            webDriver.findElement(
250                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[2]/a"))
251                    .toLeftOf(icon3)).click();
252
253            WebElement icon4 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/a"));
254
255            webDriver.findElement(
256                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[5]/a"))
257                    .toRightOf(icon4)).click();
258            webDriver.navigate().back();
259            webDriver.findElement(
260                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/a"))
261                    .toLeftOf(icon4)).click();
262            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/ul/li[1]/a")).click();
```



```java
248            webDriver.navigate().back();
249            webDriver.findElement(
250                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[2]/a"))
251                    .toLeftOf(icon3)).click();
252
253            WebElement icon4 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/a"));
254
255            webDriver.findElement(
256                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[5]/a"))
257                    .toRightOf(icon4)).click();
258            webDriver.navigate().back();
259            webDriver.findElement(
260                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/a"))
261                    .toLeftOf(icon4)).click();
262            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/ul/li[1]/a")).click();
263
264            WebElement icon5 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[5]/a"));
265            webDriver.findElement(
266                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[6]/a"))
267                    .toRightOf(icon5)).click();
268            webDriver.navigate().back();
269            webDriver.findElement(
270                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/a"))
271                    .toLeftOf(icon5)).click();
272            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/ul/li/a")).click();
273
274            WebElement icon6 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[6]/a"));
275            webDriver.findElement(
276                    RelativeLocator.with(By.className("search-icon"))
277                    .toRightOf(icon6)).click();
278            Thread.sleep(2000);
279            webDriver.findElement(By.xpath("//*[@id=\"top\"]/div/div/div[2]/nav/ul[1]/li[7]/div")).click();
280            webDriver.findElement(
281                    RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[5]/a"))
282                    .toLeftOf(icon6)).click();
283
284            WebElement icon7 = webDriver.findElement(By.className("search-icon"));
285
286            webDriver.findElement(
287                    RelativeLocator.with(By.cssSelector("#social-in-menu > a:nth-child(1) > i"))
288                    .toRightOf(icon7)).click();
289
290            String handle1 = webDriver.getWindowHandle();
```


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```
269       webDriver.findElement(
270               RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/a"))
271               .toLeftOf(icon5)).click();
272       webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/ul/li/a")).click();
273
274       WebElement icon6 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[6]/a"));
275       webDriver.findElement(
276               RelativeLocator.with(By.className("search-icon"))
277               .toRightOf(icon6)).click();
278       Thread.sleep(2000);
279       webDriver.findElement(By.xpath("//*[@id=\"top\"]/div/div/div[2]/nav/ul[1]/li[7]/div")).click();
280       webDriver.findElement(
281               RelativeLocator.with(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[5]/a"))
282               .toLeftOf(icon6)).click();
283
284       WebElement icon7 = webDriver.findElement(By.className("search-icon"));
285
286       webDriver.findElement(
287               RelativeLocator.with(By.cssSelector("#social-in-menu > a:nth-child(1) > i"))
288               .toRightOf(icon7)).click();
289
290       String handle1 = webDriver.getWindowHandle();
291       System.out.println(handle1);
292       for (String handle: webDriver.getWindowHandles()) {
293           if (!handle.equals(handle1)) {
294               webDriver.switchTo().window(handle);
295               break;
296           }
297       }
298       Thread.sleep(5000);
299
300       webDriver.close();
301
302       webDriver.switchTo().window(handle1);
303
304       Thread.sleep(2000);
305       webDriver.findElement(
306               RelativeLocator.with(By.xpath("//*[@id=\"menu-item-14574\"]/a"))
307               .toLeftOf(icon7)).click();
308
309   }
310 }
311
```

3.7. Scholarship Form Test

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

Test Name: Test Scholarship Form				
Description: Test Scholarship 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:				

```
313
314
315     //7
316⊖    @Test
317     void testForm() throws InterruptedException {
318         webDriver.get(baseUrl);
319         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[4]/a")).click();
320         webDriver.findElement(By.linkText("Scholarships")).click();
321
322         webDriver.findElement(By.className("entire-meta-link")).click();
323         Thread.sleep(3000);
324
325         WebElement comment= webDriver.findElement(By.id("comment"));
326         comment.sendKeys("testhello");
327         WebElement name= webDriver.findElement(By.id("author"));
328         name.sendKeys("aminatest");
329         WebElement email= webDriver.findElement(By.id("email"));
330         email.sendKeys("test@gmail.com");
331         WebElement website= webDriver.findElement(By.id("url"));
332         website.sendKeys("https://www.atlantbh.com/five-years-of-atlantbh-scholarships/");
333
334         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div[2]/div/div/div/form/p[1]")).click();
335         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div[2]/div/div/div/form/p[2]")).click();
336         Thread.sleep(5000);
337
338     }
339 }
```

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:				

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```java
340
341      //8
342        @Test
343         void applicationForm() throws InterruptedException {
344        webDriver.get(baseUrl);
345        Thread.sleep(3000);
346        webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[5]/div[2]/div[2]/div/div[3]/div/div[2]/div/div/div[2]/a")).click();
347        Thread.sleep(5000);
348        webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div[2]/div[2]/div/div[2]/a/span")).click();
349        webDriver.findElement(By.xpath("/html/body/div/div/div/div[2]/div/div/div/button")).click();
350        Thread.sleep(3000);
351        webDriver.findElement(By.xpath("/html/body/div/div/div/main/div[2]/ul/li[1]/div/a")).click();
352        Thread.sleep(3000);
353        webDriver.findElement(By.cssSelector("#app > div > div > div > div > nav > a:nth-child(3)")).click();
354        Thread.sleep(3000);
355        WebElement name=webDriver.findElement(By.id("firstname"));
356        name.sendKeys("test");
357        WebElement lastname=webDriver.findElement(By.id("lastname"));
358        lastname.sendKeys("testitest");
359        WebElement email=webDriver.findElement(By.id("email"));
360        email.sendKeys("test@gmail.com");
361        WebElement phone= webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[1]/div[2]/div[4]/label/div/div/div/div/input"));
362        phone.sendKeys("061555555");
363        Thread.sleep(3000);
364
365        WebElement address=webDriver.findElement(By.id("address"));
366        address.sendKeys("testiranje");
367        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/div/button")).click();
368        WebElement school=webDriver.findElement(By.id("school"));
369        school.sendKeys("school");
370        WebElement study=webDriver.findElement(By.id("field_of_study"));
371        study.sendKeys("it");
372        WebElement degree=webDriver.findElement(By.id("degree"));
373        degree.sendKeys("bachlor");
374        Thread.sleep(3000);
375
376        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[4]/label/div/div/div/div/input")).click();
377        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[4]/label/div[2]/button"));
378        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[4]/label/div[2]/div/div/div[2]/div[1]/div[1]")).click();
379        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[5]/label/div/div/div/div/input")).click();
```

```java
        WebElement address=webDriver.findElement(By.id("address"));
        address.sendKeys("testiranje");
        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/div/button")).click();
        WebElement school=webDriver.findElement(By.id("school"));
        school.sendKeys("school");
        WebElement study=webDriver.findElement(By.id("field_of_study"));
        study.sendKeys("it");
        WebElement degree=webDriver.findElement(By.id("degree"));
        degree.sendKeys("bachlor");
        Thread.sleep(3000);

        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[4]/label/div/div/div/div/input")).click();
        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[4]/label/div/button"));
        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[4]/label/div[2]/div/div/div[2]/div[1]/div[1]")).click();
        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[5]/label/div/div/div/div/input")).click();
        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[5]/label/div[2]/div/div/div[2]/div[1]/div[1]")).click();
        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[6]/button[1]")).click();
        Thread.sleep(10000);

        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/div/button")).click();
        WebElement title=webDriver.findElement(By.id("title"));
        title.sendKeys("engineer");
        WebElement company=webDriver.findElement(By.id("company"));
        company.sendKeys("International Burch University");
        WebElement industry=webDriver.findElement(By.id("industry"));
        industry.sendKeys("IT");
        WebElement summary=webDriver.findElement(By.id("summary"));
        summary.sendKeys("testing");
        Thread.sleep(10000);


        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/ul/li/div/div[5]/label/div/div/div/div/input")).click();
        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/ul/li/div/div[5]/label/div[2]/div/div/div[2]/div[1]/div[1]")).click();

        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/ul/li/div/label/span")).click();
        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/ul/li/div/div[7]/button[1]")).click();
        Thread.sleep(10000);

        WebElement summary1= webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[3]/label/div/div/textarea"));
        summary1.sendKeys("testingtesting");
        WebElement details= webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[3]/div[2]/div[1]/label/div/div/textarea"));
        details.sendKeys("coverletter");
        webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[3]/div[2]/div[2]/div/fieldset/div[1]/label/div/div/span[2]")).click();
        Thread.sleep(10000);
```

15

```
atlantselenium.java    testing.java
72     WebElement degree=webDriver.findElement(By.id("degree"));
73         degree.sendKeys("bachlor");
74         Thread.sleep(3000);
75
76         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[4]/label/div/div/div/div/input")).click();
77         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[4]/label/div[2]/div/button"));
78         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[4]/label/div[2]/div/div/div[2]/div[1]/div[1]")).click();
79         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[5]/label/div/div/div/div/input")).click();
80         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[5]/label/div[2]/div/div/div[2]/div[1]/div[1]")).click();
81         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[1]/ul/li/div/div[6]/button[1]")).click();
82         Thread.sleep(10000);
83
84         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/div/button")).click();
85         WebElement title=webDriver.findElement(By.id("title"));
86         title.sendKeys("engineer");
87         WebElement company=webDriver.findElement(By.id("company"));
88         company.sendKeys("International Burch University");
89         WebElement industry=webDriver.findElement(By.id("industry"));
90         industry.sendKeys("IT");
91         WebElement summary=webDriver.findElement(By.id("summary"));
92         summary.sendKeys("testing");
93         Thread.sleep(10000);
94
95
96         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/ul/li/div/div[5]/label/div/div/div/div/input")).click();
97         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/ul/li/div/div[5]/label/div[2]/div/div/div[2]/div[1]/div[1]")).click();
98
99         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/ul/li/div/div/label/span")).click();
00         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[2]/ul/li/div/div[7]/button[1]")).click();
01         Thread.sleep(10000);
02
03         WebElement summary1= webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[2]/div[2]/div[3]/label/div/div/textarea"));
04         summary1.sendKeys("testingtesting");
05         WebElement details= webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[3]/div[2]/div[1]/label/div/div/textarea"));
06         details.sendKeys("coverletter");
07         webDriver.findElement(By.xpath("/html/body/div/div/div/div/main/form/section[3]/div[2]/div[2]/div/fieldset/div[1]/label/div/div/span[2]")).click();
08         Thread.sleep(10000);
09
10
11         }
12     }
13
14
```

3.9. Test QAmp page functionalities

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

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(baseUrl);
    Thread.sleep(3000);
    webDriver.findElement(By.xpath("//*[@id=\"menu-item-17838\"]/a")).click();
    webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/ul/li[3]/a")).click();

    String ime = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div[4]/div[2]/div/div[2]/div[2]/div/h2")).getText();
    assertTrue(ime.contains("Senita Isović"));
    Thread.sleep(3000);

    String ime1 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div[5]/div[2]/div[1]/div/div[2]/div[2]/div/h2")).getText();
    assertTrue(ime1.contains("Maja Mujanović"));

    WebElement ime3 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div[6]/div[2]/div/div/div[2]/div[2]/div/h2"));
    assertEquals("Damir Čović", ime3.getText());

    String source= webDriver.getPageSource();
    assertTrue(source.contains("wp-content"));

    WebElement aa= webDriver.findElement(By.xpath("//*[@id=\"mlb2-5847491\"]/div/div/div[1]/form/div[1]/div/div/input"));
    aa.sendKeys("test@gmail.com");
    Thread.sleep(2000);

    }
  }
```

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:				

```
142
143
144        //10
145⊝       @Test
146        void testSearchIcon() throws InterruptedException {
147            webDriver.get(baseUrl);
148            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[7]/a")).click();
149
150            Thread.sleep(3000);
151            webDriver.findElement(By.xpath("//*[@id=\"top\"]/div/div/div[2]/nav/ul[1]/li[7]/form/button/span[2]")).click();
152
153            WebElement text= webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div/div/span"));
154            assertEquals("260 results found", text.getText());
155            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div/div[2]/div[2]/a")).click();
156            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div/div[2]/div[1]")).click();
157            webDriver.get(baseUrl);
158            Thread.sleep(3000);
159
160            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[7]/a")).click();
161            Thread.sleep(3000);
162            webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[7]/div")).click();
163            Thread.sleep(3000);
164
165
166        }
167
168 }
169
```

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: Test Search Icon				
Description: Test Search icon functionalities and arrows on the page				
Pre-condition(s):				
Test Steps:	**Test Data:**	**Expected Result:**	**Actual Result:**	**Status:**
1.Start from Home page, go to Careers and click Jobs. 2. We can scroll a little bit to see 2 links 3. Click to first link 4. Go back to page 5. Click to another link 6. 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:				

```java
469
470        //11
471    @Test
472    void testJobsLinks() throws InterruptedException {
473    webDriver.get(baseUrl);
474    JavascriptExecutor js = (JavascriptExecutor) webDriver;
475
476    Thread.sleep(3000);
477    webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/a")).click();
478    WebElement jobs = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[3]/ul/li[1]/a"));
479    js.executeScript("arguments[0].click()", jobs);
480    js.executeScript("window.scrollBy(0, 600);");
481    Thread.sleep(1000);
482
483    WebElement text1 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[2]/div[2]/div/div/div[2]/div[1]/div[2]/div[2]/div/div[2]/div/div/div/ul/
484    js.executeScript("arguments[0].click();", text1);
485    Thread.sleep(2000);
486    webDriver.navigate().back();
487    WebElement text2 = webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[2]/div[2]/div/div/div[2]/div[1]/div[2]/div[2]/div/div[2]/div/div/div/ul/
488    js.executeScript("arguments[0].click();", text2);
489    Thread.sleep(2000);
490    webDriver.navigate().back();
491
492
493        }
494
495    }
496
```

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: 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.	**Test Data:**	**Expected Result:** We expected to links and number buttons work properly	**Actual Result:** Links and number buttons work properly	**Status:** PASS
Notes:				

```
7     //12
3⊖    @Test
9     void testNumbers() throws InterruptedException {
9         webDriver.get(baseUrl);
1         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[2]/a")).click();
2
3         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[3]/div[2]/div[2]/div/div[2]/div/div/a")).click();
4
5         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[5]/div[2]/div[4]/div/div[2]/a/span")).click();
6         Thread.sleep(2000);
7         webDriver.navigate().back();
8
9         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[6]/div[2]/div/div/div[2]/div[2]/div[2]/div/div/div[2]/a")).click();
9         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div/div[2]/a[1]")).click();
1         Thread.sleep(3000);
2         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div/div[2]/a[3]")).click();
3         Thread.sleep(4000);
4         webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div/div[2]/a[4]")).click();
5         Thread.sleep(3000);
5
7     }
3 }
9
```

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.				
Pre-condition(s):				
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:				

```java
//13
    @Test
    void testPhotoAndForm() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[2]/a")).click();

    webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[3]/div[2]/div[2]/div[2]/div/div/a")).click();
    Thread.sleep(2000);
    webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[1]/div[2]/div/div/div[2]/div[2]/div[2]/div/div/div[2]/div/div/a")).click();
    Thread.sleep(2000);
    webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div[1]/div[2]/div/div/div[2]/div[2]/div[2]/div[1]/div/div[2]/div/div[2]")).click();
    Thread.sleep(3000);
    webDriver.findElement(By.xpath("/html/body/div[5]/div")).click();
    Thread.sleep(2000);
    webDriver.navigate().back();
    Thread.sleep(3000);

    WebElement text= webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div/div/div[7]/div[2]/div/div/div[2]/div/form/div[2]/div[1]/span/textarea"));
    text.sendKeys("test1");

    WebElement email= webDriver.findElement(By.name("form-input-mail"));
    email.sendKeys("test@gmail.com");

    WebElement name = webDriver.findElement(By.name("form-input-text"));
    name.sendKeys("Tesstiranje");
    Thread.sleep(3000);

    }
}
```

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:				

```
49
50
51  //14
52
53⊖ @Test
54  void testQA() throws InterruptedException {
55      webDriver.get(baseUrl);
56      webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/header/div/div/div[2]/nav/ul[1]/li[5]/a")).click();
57      webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div/div[2]/div/div/ul/li[4]/a/span")).click();
58      Thread.sleep(2000);
59      webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div/div[2]/div/div/div[2]/div/div/div[4]/div[1]/div/div/article[1]/div/div/div/a")).cl
60      Thread.sleep(2000);
61      webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div[1]/div/article/div/div/div[2]/div[2]/div/div/div[5]/div[2]/div/div/div[2]/div/div/
62      webDriver.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div/div/div/div/article/div/div/div[2]/div/a/i")).click();
63      Thread.sleep(2000);
64      webDriver.navigate().back();
65      Thread.sleep(3000);
66
67
68      }
69  }
70
```

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:**
1.Start from Home page, click to Contact. 2. Scroll down to form, then scroll to title above 3. 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 testMapView() 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[2]/div/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	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.