

SELENIUM AUTOMATED TEST IN ECLIPSE

The agenda of this demonstration:

1. To open the Intellipaat website,
2. To put a search input (e.g.: DevOps), click on search,
3. In the last search result page find a DevOps Certification Course, click on the course
4. In that last search result page see if the Course Title matches to our Desired Course Title or not, if matches display one message and display the Next Online Class Timings for the Course.

Step 1: Before moving ahead let us first add required **Maven Dependencies** in the **pom.xml** file. Also, initialize the web driver. Refer to the Selenium Installation Documentation. Now our **App.java** file should look like this:

```
1 package Test;
2
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.chrome.ChromeDriver;
5
6 public class App {
7
8     public static void main(String[] args) {
9         System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\driver\\chrome
10         WebDriver driver = new ChromeDriver();
```

And **pom.xml** file should look like this:

```
5 <version>0.0.1-SNAPSHOT</version>
6 <dependencies>
7 <!-- Selenium -->
8 <dependency>
9 <groupId>org.seleniumhq.selenium</groupId>
10 <artifactId>selenium-java</artifactId>
11 <version>3.4.0</version>
12 </dependency>
13 <!-- TestNG -->
14 <dependency>
15 <groupId>org.testng</groupId>
16 <artifactId>testng</artifactId>
17 <version>6.8</version>
18 <scope>test</scope>
19 </dependency>
20 <dependency>
21 <groupId>org.seleniumhq.selenium</groupId>
22 <artifactId>selenium-server</artifactId>
23 <version>3.141.59</version>
24 </dependency>
25 </dependencies>
26 </project>
```

We are all set to start our demonstration,

Step 2: Open the Intellipaate website.

```
driver.get("https://intellipaate.com");  
driver.manage().window().maximize();
```

This command will open the Intellipaate website and then it will maximize the browser window.

```
public class App {  
    public static void main(String[] args) {  
        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\driver\\chromedriver.exe");  
        WebDriver driver = new ChromeDriver();  
        driver.get("https://intellipaate.com");  
        driver.manage().window().maximize();  
    }  
}
```

Step 3: Import the following before moving ahead.

```
import java.util.concurrent.TimeUnit;  
import org.openqa.selenium.By;
```

```
package Test;  
  
import java.util.concurrent.TimeUnit;  
import org.openqa.selenium.By;  
  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.chrome.ChromeDriver;  
  
public class App {  
    public static void main(String[] args) {  
        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\driver\\chromedriver.exe");  
        WebDriver driver = new ChromeDriver();  
        driver.get("https://intellipaate.com");  
        driver.manage().window().maximize();  
    }  
}
```

Step 4: Now we will find the search input element in the website, inspect the element, find the class name, also find the id of the search click button by inspecting.

```
driver.findElement(By.className("t-search-input")).sendKeys("DevOps");  
driver.findElement(By.id("frontpagesubmitsearch")).click();  
driver.manage().timeouts().implicitlyWait(3,TimeUnit.SECONDS);
```

Here, we have added one time-out of 3 secs.

```
public class App {  
    public static void main(String[] args) {  
  
        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\driver\\chromedriver.exe");  
        WebDriver driver = new ChromeDriver();  
        driver.get("https://intellipaat.com");  
        driver.manage().window().maximize();  
  
        driver.findElement(By.className("t-search-input")).sendKeys("DevOps");  
        driver.findElement(By.id("frontpagesubmitsearch")).click();  
        driver.manage().timeouts().implicitlyWait(3,TimeUnit.SECONDS);  
    }  
}
```

Step 5: Now in the last search result page we will find a DevOps Certification Course and click on the course. If course is not found display a "Course not found" message.

```
String firstData = driver.findElement(By.className("block_title")).getText();  
String CheckData = "DevOps Certification Training Course";  
  
if(firstData.equals(CheckData)) {  
    driver.findElement(By.className("block_media")).click();  
    driver.manage().timeouts().implicitlyWait(3,TimeUnit.SECONDS);  
}  
else {  
    System.out.println("Course not found");  
}
```

It should look like this:

```
public class App {  
    public static void main(String[] args) {  
        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\driver\\chromedriver.exe");  
        WebDriver driver = new ChromeDriver();  
        driver.get("https://intellipaat.com");  
        driver.manage().window().maximize();  
  
        driver.findElement(By.className("t-search-input")).sendKeys("DevOps");  
        driver.findElement(By.id("frontpagesubmitsearch")).click();  
        driver.manage().timeouts().implicitlyWait(3, TimeUnit.SECONDS);  
  
        String firstData = driver.findElement(By.className("block_title")).getText();  
        String CheckData = "DevOps Certification Training Course";  
  
        if(firstData.equals(CheckData)) {  
            driver.findElement(By.className("block_media")).click();  
            driver.manage().timeouts().implicitlyWait(3, TimeUnit.SECONDS);  
        }  
        else {  
            System.out.println("Course not found");  
        }  
    }  
}
```

Step 6: In that last search result page we will check if the Course Title matches to our Desired Course Title or not, if matches display one message and display the Next Online Class Timings for the Course.

```
String actualData = driver.findElement(By.className("title")).getText();
String expectedData = "DevOps Certification Training Course";

if(actualData.equals(expectedData)) {
    System.out.println("Found String!");
    String dateView = driver.findElement(By.className("batchDate")).getText();
    String timeView = driver.findElement(By.className("batchWeek")).getText();
    System.out.println("Next Batch is on: \n" + dateView + "\n" + timeView);
    System.out.println("Test Successful");
    driver.close();
}
else {
    System.out.println("Oops!! String Not Found.");
}
```

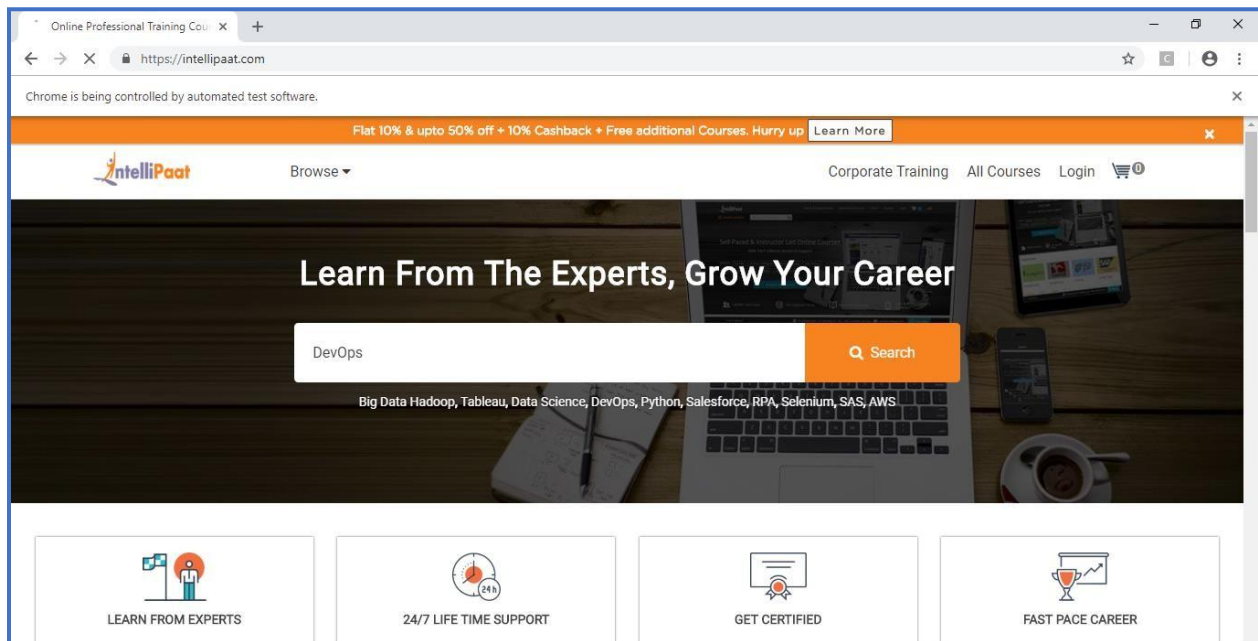
It looks like this:

```
String actualData = driver.findElement(By.className("title")).getText();
String expectedData = "DevOps Certification Training Course";

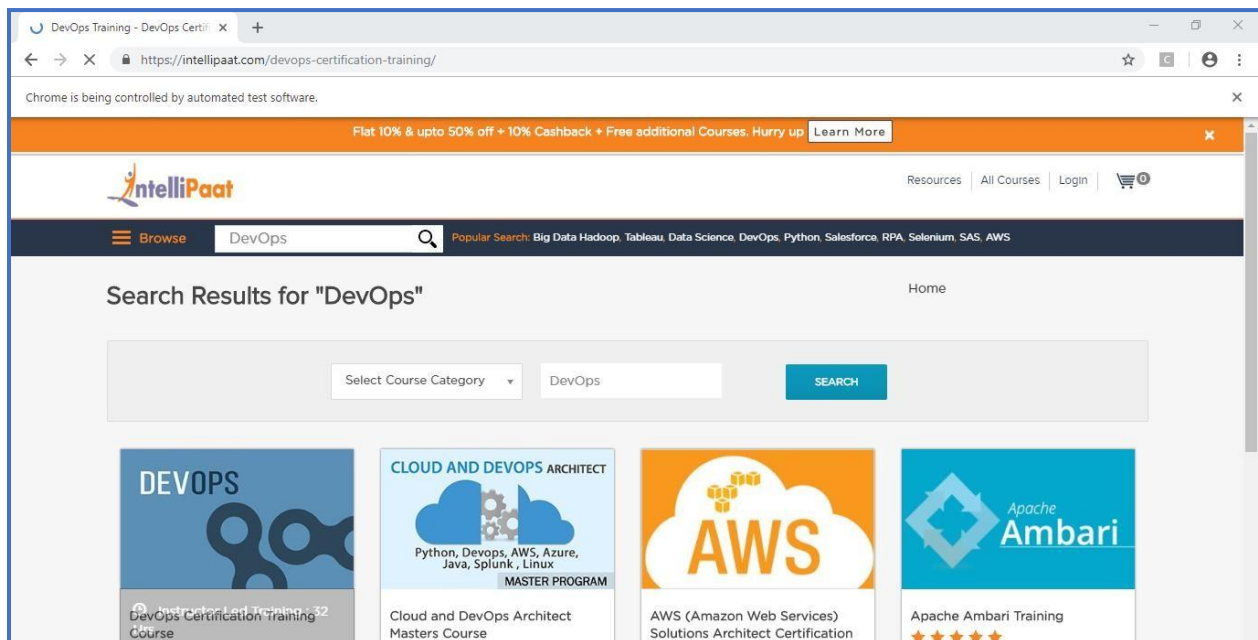
if(actualData.equals(expectedData)) {
    System.out.println("Found String!");
    System.out.println("-----");

    String dateView = driver.findElement(By.className("batchDate")).getText();
    String timeView = driver.findElement(By.className("batchWeek")).getText();
    System.out.println("Next Batch is on: \n" + dateView + "\n" + timeView);
    System.out.println("-----");
    System.out.println("Test Successful");
    driver.close();
}
else {
    System.out.println("Oops!! String Not Found.");
}
```

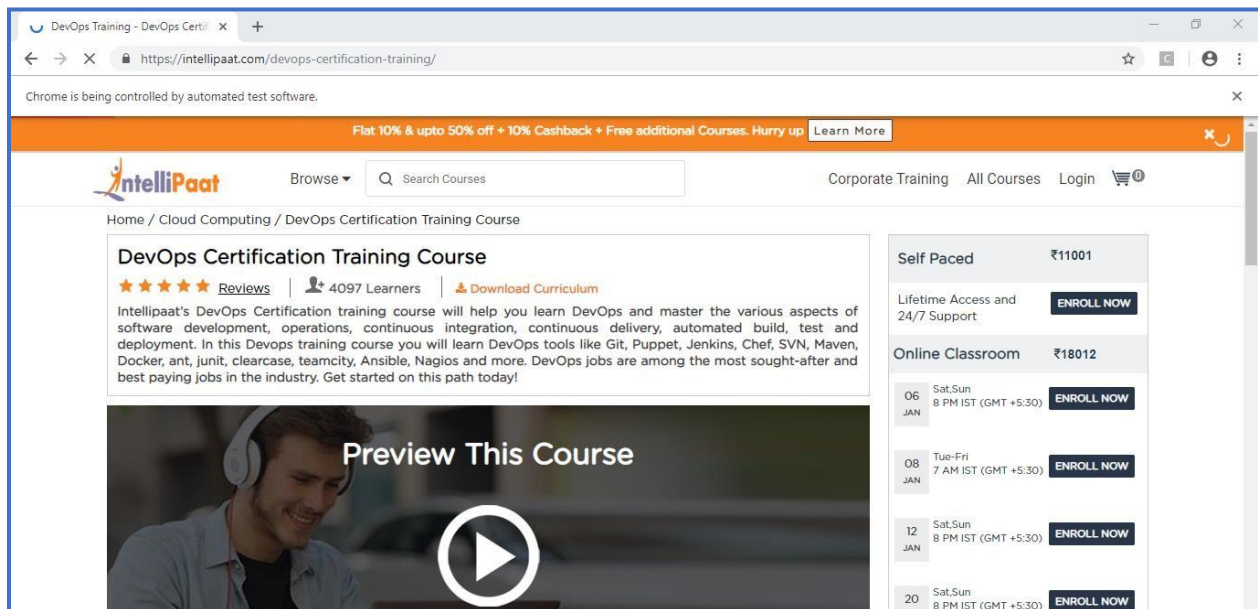
Step 7: Now run the program. A Chrome browser window will pop up. See the results as shown below: First, opens Intellipaate website window.



Then clicks on the DevOps Certification Course.



Finally lands on the course page. And then window gets closed.



DevOps Certification Training Course

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IntelliPaat's DevOps Certification training course will help you learn DevOps and master the various aspects of software development, operations, continuous integration, continuous delivery, automated build, test and deployment. In this DevOps training course you will learn DevOps tools like Git, Puppet, Jenkins, Chef, SVN, Maven, Docker, ant, junit, clearcase, teamcity, Ansible, Nagios and more. DevOps jobs are among the most sought-after and best paying jobs in the industry. Get started on this path today!

Preview This Course

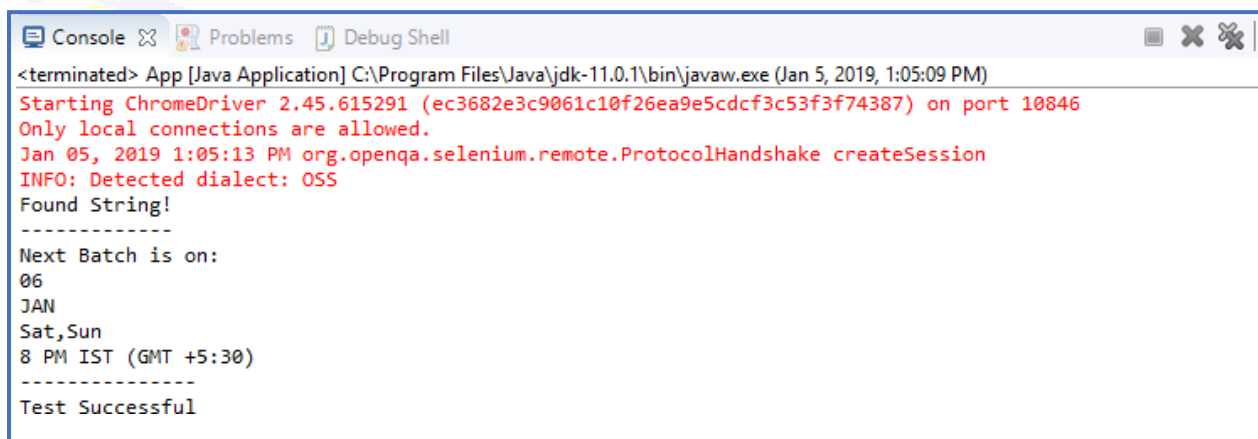
Self Paced ₹11001

Lifetime Access and 24/7 Support **ENROLL NOW**

Online Classroom ₹18012

Batch	Days	Time	Enroll Now
06 JAN	Sat,Sun	8 PM IST (GMT +5:30)	ENROLL NOW
08 JAN	Tue-Fri	7 AM IST (GMT +5:30)	ENROLL NOW
12 JAN	Sat,Sun	8 PM IST (GMT +5:30)	ENROLL NOW
20 JAN	Sat,Sun	8 PM IST (GMT +5:30)	ENROLL NOW

Step 8: Now see the eclipse console. It should display our **Next Online Classroom Timing** as shown below.



```
<terminated> App [Java Application] C:\Program Files\Java\jdk-11.0.1\bin\javaw.exe (Jan 5, 2019, 1:05:09 PM)
Starting ChromeDriver 2.45.615291 (ec3682e3c9061c10f26ea9e5cdcf3c53f3f74387) on port 10846
Only local connections are allowed.
Jan 05, 2019 1:05:13 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Found String!
-----
Next Batch is on:
06
JAN
Sat,Sun
8 PM IST (GMT +5:30)
-----
Test Successful
```

Congratulations! You have successfully completed your first **Selenium Automated Test**.