

CS6474: Software Testing Laboratory (Spring 2022)

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CS6474: Software Testing Laboratory 2022

SELENIUM WEBDRIVER

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1 Selenium WebDriver

Selenium WebDriver is the most important component of Selenium Tool's Suite. The latest release "Selenium 2.0" is integrated with WebDriver API which provides a simpler and more concise programming interface.

The following image will give you a fair understanding of Selenium components and the Test Automation Tools.

Selenium WebDriver was first introduced as a part of Selenium v2.0. The initial version of Selenium i.e Selenium v1 consisted of only IDE, WebDriver and Grid. However, with the release of Selenium v3, WebDriver has been deprecated and moved to legacy package.

In WebDriver, test scripts can be developed using any of the supported programming languages and can be run directly in most modern web browsers. Languages supported by WebDriver include C, Java, Perl, PHP, Python and Ruby.

1.1 Google Search

Selenium WebDriver Screenshot of Calculator.net website.

```
File Edit Source Refector Navigate Search Project Run Window Help

| Project | Project
```

Figure 1: Google search WebDrive

1.1.1 Selenium WebDriver google search

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

```
import org.openqa.selenium.WebElement;
  import org.openqa.selenium.chrome.ChromeDriver;
  public class Webdrivertest {
8
9
    public static void main(String[] args) {
10
     // TODO Auto-generated method stub
11
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
12
       WebDriver dv1 = new ChromeDriver();
       dv1.manage().window().maximize();
13
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
14
15
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
16
       dv1.get("https://www.google.com/");
17
       dv1.findElement(By.name("q")).sendKeys("youtube");
       WebElement ele1= dv1.findElement(By.name("btnK"));
18
19
       ele1.click();
    }
20
21
```

1.2 Calculator.net

Selenium WebDriver Screenshot of Calculator.net website.

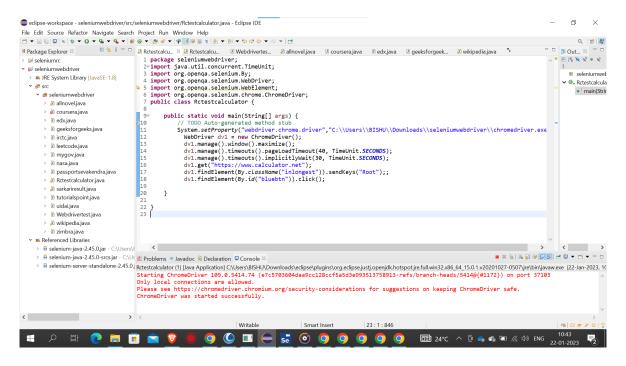


Figure 2: Selenium WebDriver for Calculator.net Website

1.2.1 Selenium WebDriver calculator

```
1 package seleniumwebdriver;
2 import java.util.concurrent.TimeUnit;
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 public class calculator {
8
9
    public static void main(String[] args) {
10
     // TODO Auto-generated method stub
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
11
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
       WebDriver dv1 = new ChromeDriver();
12
13
       dv1.manage().window().maximize();
14
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
15
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
       dv1.get("https://www.calculator.net");
16
       dv1.findElement(By.className("inlongest")).sendKeys("Root");;
17
       dv1.findElement(By.id("bluebtn")).click();
18
19
20
    }
21
22 }
```

1.3 Coursera

Selenium WebDriver Screenshot of Coursera website.

1.3.1 Selenium WebDriver Coursera

```
1 package seleniumwebdriver;
2 import java.util.concurrent.TimeUnit;
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7
8 public class coursera {
9
    public static void main(String[] args) {
10
11
     // TODO Auto-generated method stub
     System.setProperty("webdriver.chrome.driver","C:\\Users\\BISHU
12
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
       WebDriver dv1 = new ChromeDriver();
13
14
       dv1.manage().window().maximize();
```

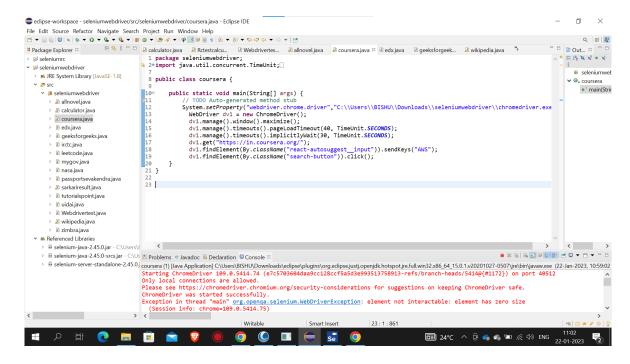


Figure 3: Selenium WebDriver for Coursera Website

1.4 IRCTC

Selenium WebDriver Screenshot of IRCTC website.

1.4.1 Selenium WebDriver IRCTC

```
package seleniumwebdriver;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class irctc {
    public static void main(String[] args) {
```

```
eclipse-workspace - seleniumwebdriver/src/seleniumwebdriver/irctc.java - Eclipse IDI
                                                                                                                                                                                                                                                                                                                                                                                                                                                  đ
 File Edit Source Refactor Navigate Search Project Run Window Help
                                                                                                                                                                                                                                                                                                                                                                                                                              - □ BE Out... □ □ □
# Package Explorer Description of the Computation o

☑ Webdrivertes... ☑ allnovel.java ☑ coursera.java ☑ edx.java ☑ irctc.java ☒ ☑ wikipedia.java "

                                                                                                                                                                                                                                                                                                                                                                                                                                                 # seleniumwel
                                                                                                                                                                                                                                                                                                                                                                                                                                                       • * main(Strin
                                                                                          8 public class irctc [
                       Calculator.java
                        🛭 coursera.java
                                                                                              100 public static void main(String[] args) {
                      edx.java
                                                                                                                           System.setProperty("webdriver.ch

    geeksforgeeks.iava

                                                                                                                                                                                                                         me.driver","C:\\Users\\BISHU\\Downloads\\seleniumwebdriver\\chromedriver.exe
                                                                                                                                WebDriver dvl = new ChromeDriver();
dvl.manage().window().maximize();
dvl.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS);
dvl.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
                      irctc.java
                        leetcode.java
                   > 1 mygov.java
                                                                                                                                 dv1.get("https://www.irctc.co.in/");
dv1.findElement(By.xpath("xpath=//li[@id='stayIcon']/a/span")).click();

    □ passportsevakendra.java

                      sarkariresult.java
                                                                                            20 }
21 }
                       Webdrivertest.java
                  > 🔑 wikipedia.java
           → ② zimbra.java

■ Referenced Librarie
                selenium-java-2.45.0.jar - C:\Users\E
                                                                                                                                                                                                                                                                                                                                                                                      > 
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Declaration 
Console
                  at org.openqa.selenium.remote.RemoteWebDriver.findElementByXPath(RemoteWebDriver.java:449) at org.openqa.selenium.BySByXPath.findElement(By.java:357) at org.openqa.selenium.remote.RemoteWebDriver.findElement(RemoteWebDriver.java:344) at selenium.webdriver.irctc.main(irctc.java:18)
   🗏 🔎 計 💿 🔚 💼 🕥
```

Figure 4: Selenium WebDriver for IRCTC Website

```
11
     // TODO Auto-generated method stub
12
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
       WebDriver dv1 = new ChromeDriver();
13
14
       dv1.manage().window().maximize();
15
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
16
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
17
       dv1.get("https://www.irctc.co.in/");
       dv1.findElement(By.xpath("xpath=//li[@id='stayIcon']/a/span")
18
          ).click();
19
20
    }
21
```

1.5 Allnovel

Selenium WebDriver Screenshot of Allnovel website.

1.5.1 Selenium WebDriver Allnovel

```
package seleniumwebdriver;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
```

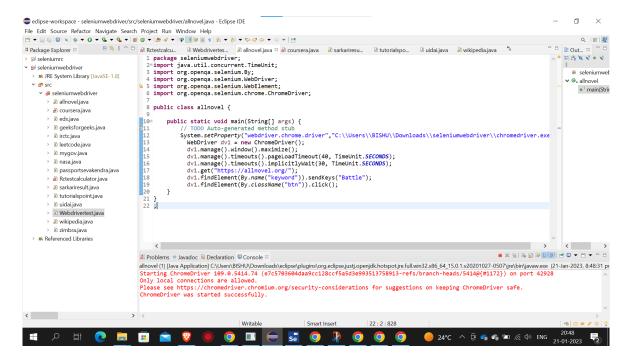


Figure 5: Selenium WebDriver for Allnovel Website

```
import org.openqa.selenium.chrome.ChromeDriver;
  public class allnovel {
7
8
    public static void main(String[] args) {
9
     // TODO Auto-generated method stub System.setProperty("
        webdriver.chrome.driver", "C:\\Users\\BISHU\\Downloads\\
        seleniumwebdriver\\chromedriver.exe");
10
       WebDriver dv1 = new ChromeDriver();
11
       dv1.manage().window().maximize();
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
12
13
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
14
       dv1.get("https://allnovel.org/");
15
       dv1.findElement(By.name("keyword")).sendKeys("Battle");
16
       dv1.findElement(By.className("btn")).click();
   }
17
18
  }
19
```

1.6 EDX

Selenium WebDriver Screenshot of EDX website.

1.6.1 Selenium WebDriver EDX

```
package seleniumwebdriver;
import java.util.concurrent.TimeUnit;
```

```
eclipse-workspace - seleniumwebdriver/src/seleniumwebdriver/edx.java - Eclipse IDE
                                                                                                                                                                                                                                                         đ
File Edit Source Refactor Navigate Search Project Run Window Help

☑ Webdrivertes... ☑ allnovel.java ☑ coursera.java ☑ edx.java ☑ irctc.java ☑ wikipedia.java "

                                                                                                                                                                                                                                                         # seleniumwel
                                                    public static void main(String[] args) {
                                                                                                                                                                                                                                                           • * main(Strir
                                                                  public static void main(String[] args) {
   // TODO Auto-generated method stub
   System.setProperty("webdriver.chrome.driver","C:\\Users\\BISHU\\Downloads\\seleniumwebdriver\\chromedriver.exe
   WebDriver dv1 = new (ChromeDriver();
   dv1.manage().window().maximize();
   dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS);
   dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
   dv1.get("https://www.edx.org/");
   dv1.findElement(By.className("search-input")).sendKeys("DEEV");
   dv1.findElement(By.className("search-input")).click();
}
             alculator.java
              🛭 coursera.java
             edx.java

    geeksforgeeks.java
    irctc.java

             leetcode.java
           > 1 mygov.java
              passportsevakendra.java
            sarkariresult.java
           > 

    Webdrivertest.java
          > 🔑 wikipedia.java
      → ② zimbra.java

■ Referenced Librarie
         selenium-java-2.45.0.jar - C:\Users\E
                                                                                                                                                                                                                      > 🗟 selenium-java-2.45.0-srcs.jar - C:\Us 🧝 Problems @ Javadoc 🔉 Declaration 📮 Console 3
          selenium-server-standalone-2.45.01 edx [Java Application] C\Users\BISHU\Downloads\eclipse\plugins\org.eclipse\plugins\org.eclipse\justj.openjdk.hotspot.jre.full.win32x86_64_15.0.1.v20201027-0507\jre\bin\javaw.exe (22-Jan-2023, 12:35:08 pm)
                                                                at org.openqa.selenium.remote.RemoteWebDriver.execute(RemoteWebDriver.java:599) at org.openqa.selenium.remote.RemoteWebElement.execute(RemoteWebElement.java:268) at org.openqa.selenium.remote.RemoteWebElement.click(RemoteWebElement.java:79) at selenium.webdriver.edx.main(edx.java:19)
         - 夕 計 📵 🔚 🗐 😭
```

Figure 6: Selenium WebDriver for EDX Website

```
3
4
  import org.openga.selenium.By;
  import org.openqa.selenium.WebDriver;
5
  import org.openqa.selenium.WebElement;
7
  import org.openqa.selenium.chrome.ChromeDriver;
8
  public class edx {
9
10
    public static void main(String[] args) {
11
     // TODO Auto-generated method stub
12
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
13
       WebDriver dv1 = new ChromeDriver();
14
       dv1.manage().window().maximize();
15
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
16
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
17
       dv1.get("https://www.edx.org/");
       dv1.findElement(By.className("search-input")).sendKeys("DEEV"
18
19
       dv1.findElement(By.className("btn")).click();
    }
20
21
  }
```

1.7 Geeksforgeeks

Selenium WebDriver Screenshot of Geeksforgeeks website.

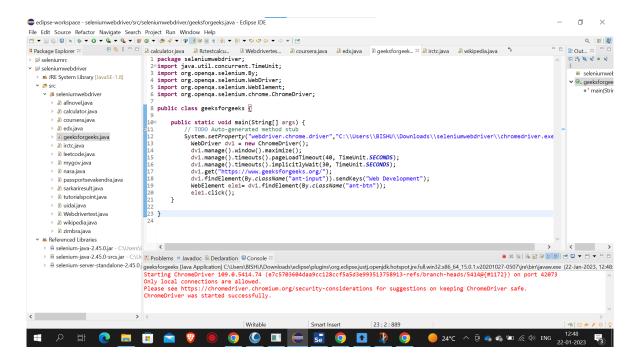


Figure 7: Selenium WebDriver for Geeksforgeeks Website

1.7.1 Selenium WebDriver Geeksforgeeks

```
1 package seleniumwebdriver;
2 import java.util.concurrent.TimeUnit;
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
  import org.openqa.selenium.WebElement;
5
6
   import org.openqa.selenium.chrome.ChromeDriver;
7
   public class geeksforgeeks {
8
9
10
    public static void main(String[] args) {
     // TODO Auto-generated method stub
11
12
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
       WebDriver dv1 = new ChromeDriver();
13
14
       dv1.manage().window().maximize();
15
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
16
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
17
       dv1.get("https://www.geeksforgeeks.org/");
       dv1.findElement(By.className("ant-input")).sendKeys("Web
18
          Development");
19
       WebElement ele1= dv1.findElement(By.className("ant-btn"));
20
       ele1.click();
21
    }
22
23
```

1.8 Youtube

Selenium WebDriver Screenshot of Youtube website.

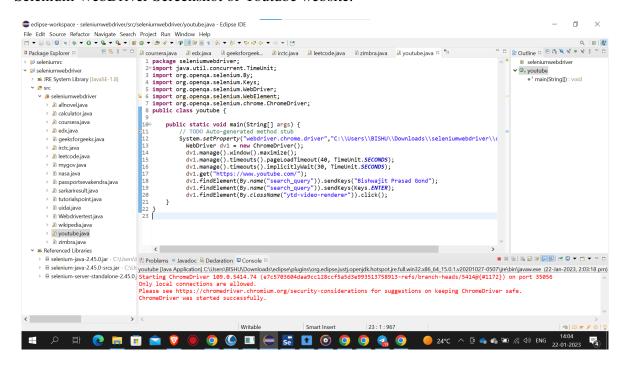


Figure 8: Selenium WebDriver for Youtube Website

1.8.1 Selenium WebDriver Youtube

```
1 package seleniumwebdriver;
2 import java.util.concurrent.TimeUnit;
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.Keys;
5 import org.openqa.selenium.WebDriver;
6 import org.openqa.selenium.WebElement;
7
  import org.openqa.selenium.chrome.ChromeDriver;
  public class youtube {
8
9
10
    public static void main(String[] args) {
     // TODO Auto-generated method stub
11
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
       WebDriver dv1 = new ChromeDriver();
13
14
       dv1.manage().window().maximize();
15
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
16
17
       dv1.get("https://www.youtube.com/");
       dv1.findElement(By.name("search_query")).sendKeys("Bishwajit
18
          Prasad Gond");
```

1.9 Indgovtjobs

Selenium WebDriver Screenshot of indgovtjobs website.

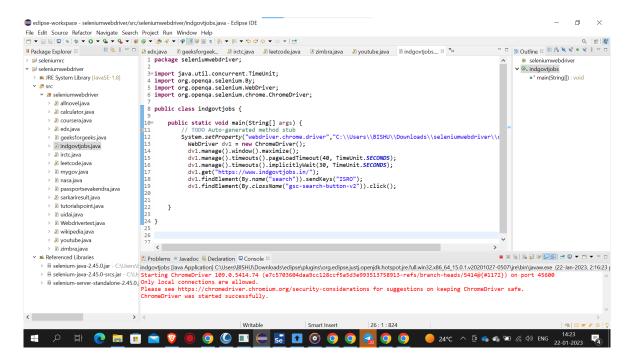


Figure 9: Selenium WebDriver for indgovtjobs Website

1.9.1 Selenium WebDriver indgovtjobs

```
package seleniumwebdriver;
2
3
  import java.util.concurrent.TimeUnit;
4 import org.openqa.selenium.By;
5
  import org.openqa.selenium.WebDriver;
  import org.openqa.selenium.chrome.ChromeDriver;
6
8
  public class indgovtjobs {
9
10
    public static void main(String[] args) {
11
     // TODO Auto-generated method stub
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
```

```
13
       WebDriver dv1 = new ChromeDriver();
14
       dv1.manage().window().maximize();
15
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
16
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
17
       dv1.get("https://www.indgovtjobs.in/");
       dv1.findElement(By.name("search")).sendKeys("ISRO");
18
19
       dv1.findElement(By.className("gsc-search-button-v2")).click()
20
21
22
    }
23
24 }
```

1.10 MyGov

Selenium WebDriver Screenshot of MyGov website.

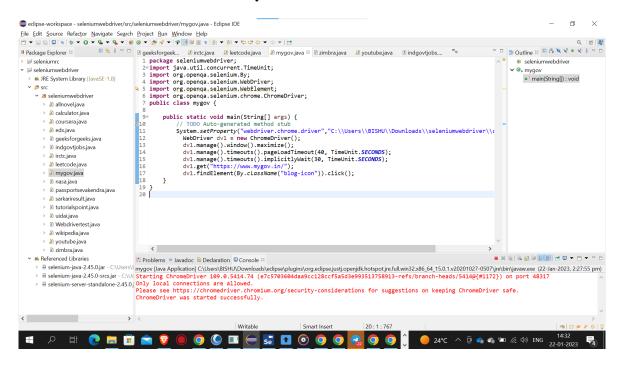


Figure 10: Selenium WebDriver for MyGov Website

1.10.1 Selenium WebDriver MyGov

```
package seleniumwebdriver;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
```

```
import org.openqa.selenium.chrome.ChromeDriver;
7
  public class mygov {
8
9
    public static void main(String[] args) {
10
     // TODO Auto-generated method stub
11
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
       WebDriver dv1 = new ChromeDriver();
12
13
       dv1.manage().window().maximize();
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
14
15
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
       dv1.get("https://www.mygov.in/");
16
17
       dv1.findElement(By.className("blog-icon")).click();
18
    }
19
  }
```

1.11 PassportIndia

Selenium WebDriver Screenshot of PassportIndia website.

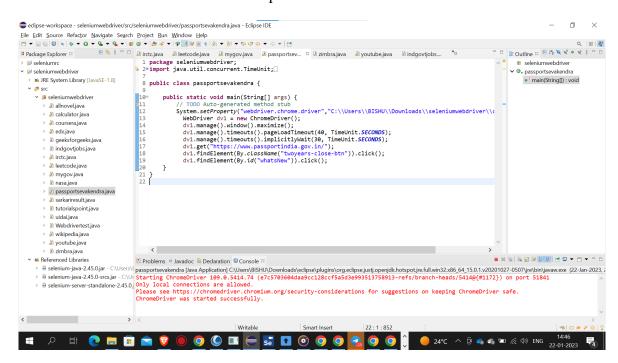


Figure 11: Selenium WebDriver for PassportIndia Website

1.11.1 Selenium WebDriver PassportIndia

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

```
import org.openqa.selenium.WebDriver;
  import org.openga.selenium.WebElement;
  import org.openqa.selenium.chrome.ChromeDriver;
6
8
  public class passportsevakendra {
9
10
    public static void main(String[] args) {
11
     // TODO Auto-generated method stub
12
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
       WebDriver dv1 = new ChromeDriver();
13
14
       dv1.manage().window().maximize();
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
15
16
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
17
       dv1.get("https://www.passportindia.gov.in/");
       dv1.findElement(By.className("twoyears-close-btn")).click();
18
19
       dv1.findElement(By.id("whatsNew")).click();
    }
20
21
```

1.12 Wikipedia

Selenium WebDriver Screenshot of wikipedia website.

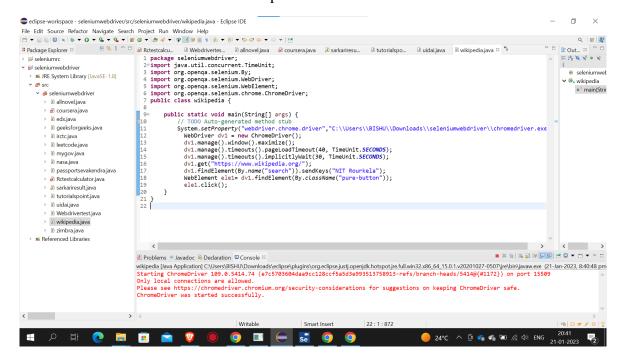


Figure 12: Selenium WebDriver for wikipedia Website

1.12.1 Selenium WebDriver wikipedia

```
package seleniumWebDriver;
2
3
  import com.thoughtworks.selenium.DefaultSelenium;
   import com.thoughtworks.selenium.Selenium;
4
5
   public class wikipedia {
6
7
8
    public static void main(String[] args) {
9
     // TODO Auto-generated method stub
10
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
11
       WebDriver dv1 = new ChromeDriver();
       dv1.manage().window().maximize();
12
13
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
14
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
15
       dv1.get("https://www.wikipedia.org/");
       dv1.findElement(By.name("search")).sendKeys("NIT Rourkela");
16
       dv1.findElement(By.className("pure-button")).click();
17
18
19
20
  }
```

1.13 UIDAI

Selenium WebDriver Screenshot of UIDAI website.

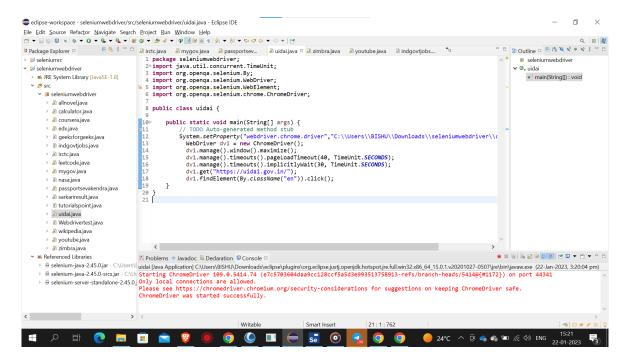


Figure 13: Selenium WebDriver for UIDAI Website

1.13.1 Selenium WebDriver UIDAI

```
1 package seleniumwebdriver;
2 import java.util.concurrent.TimeUnit;
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7
8 public class uidai {
9
10
    public static void main(String[] args) {
     // TODO Auto-generated method stub
11
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
12
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
13
       WebDriver dv1 = new ChromeDriver();
       dv1.manage().window().maximize();
14
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
15
16
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
       dv1.get("https://uidai.gov.in/");
17
       dv1.findElement(By.className("en")).click();
18
19
    }
20 }
```

1.14 Zimbra

Selenium WebDriver Screenshot of Zimbra website.

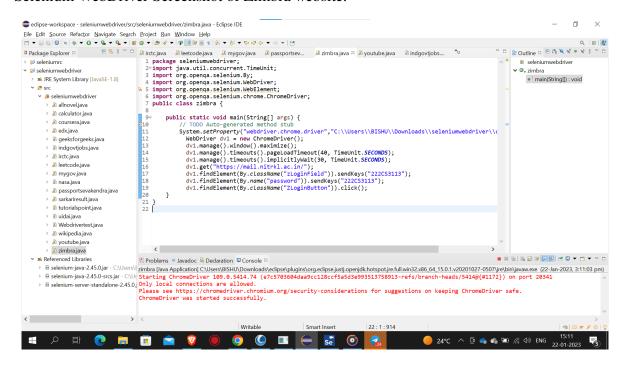


Figure 14: Selenium WebDriver for Zimbra Website

1.14.1 Selenium WebDriver Zimbra

```
1 package seleniumwebdriver;
2 import java.util.concurrent.TimeUnit;
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
  import org.openqa.selenium.WebElement;
5
  import org.openqa.selenium.chrome.ChromeDriver;
6
7
  public class zimbra {
8
9
    public static void main(String[] args) {
10
     // TODO Auto-generated method stub
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
11
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
       WebDriver dv1 = new ChromeDriver();
12
       dv1.manage().window().maximize();
13
       dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
14
15
       dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
       dv1.get("https://mail.nitrkl.ac.in/");
16
17
       dv1.findElement(By.className("zLoginField")).sendKeys("222
          CS3113");
       dv1.findElement(By.name("password")).sendKeys("222CS3113");
18
```

1.15 Maxdroid

Selenium WebDriver Screenshot of Maxdroid website.

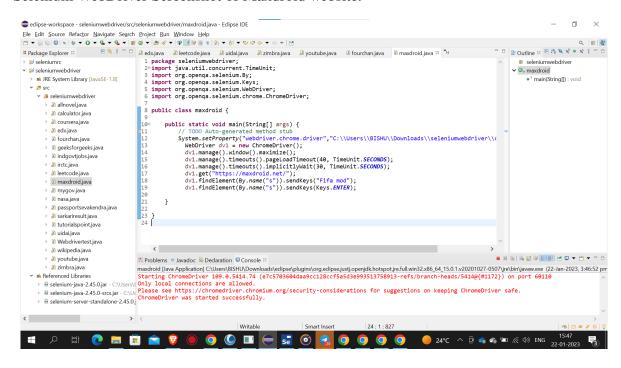


Figure 15: Selenium WebDriver for Maxdroid Website

1.15.1 Selenium WebDriver Maxdroid

```
1 package seleniumwebdriver;
2 import java.util.concurrent.TimeUnit;
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.Keys;
  import org.openqa.selenium.WebDriver;
5
6
  import org.openqa.selenium.chrome.ChromeDriver;
7
8
  public class maxdroid {
9
10
    public static void main(String[] args) {
11
     // TODO Auto-generated method stub
     System.setProperty("webdriver.chrome.driver", "C:\\Users\\BISHU
12
        \\Downloads\\seleniumwebdriver\\chromedriver.exe");
13
       WebDriver dv1 = new ChromeDriver();
14
       dv1.manage().window().maximize();
```

```
dv1.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS)
;

dv1.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

dv1.get("https://maxdroid.net/");

dv1.findElement(By.name("s")).sendKeys("Fifa mod");

dv1.findElement(By.name("s")).sendKeys(Keys.ENTER);

20
21 }
22
23 }
```