9. Group Test Cases and Parallel Test Execution

1. Creating a simple Java project

- Open Eclipse
- Go to the **File** menu. Choose **New->Java Project**
- Enter the project name as **Parallel Tests** . Click on **Next**
- This will create the project files in the Project Explorer

2. Downloading Selenium WebDriver jar, chromdriver.exe, and forefoxdriver.exe

- Go to https://www.seleniumhq.org/download/ to download the Selenium WebDriver dependency
- Under the section **Selenium Client & WebDriver Language Bindings,** click on **Download** for **Java client version: 3.141.59**
- On the same page, under **Third Party Drivers, Bindings, and Plugins,** click on **Latest** for **Mozilla Gecko Driver**
- Select the file suitable for your operating system
- Go back to the previous page. Click on **Latest** for **Google Chrome Driver**
- From the current releases, select the appropriate file per your Chrome version

3. Adding the Web Driver dependency in the project

- In the Project Explorer, right click on **Parallel Tests**
- Select **Properties** . Select **Java Build Pat** h from the list. Go to **Libraries** .
- Click on **Add External JARs** and browse the location where you have downloaded the JAR files
- Select JARs from the **root** folder and the **libs** folder
- Click on **Apply and Close**
- Copy the **chromedriver.exe** and **geckodriver.exe** , and paste it your project creating a resource folder

4. Installing TestNG

- Install TestNG in Eclipse.

5. Adding TestNG libraries to the Class Path

- In the Project Explorer, right click on **Parallel Tests**
- Select **Properties** . Select **Java Build Pat** h from the list. Go to **Libraries**
- Click on **Add Library.** Select **TestNG** . Click on **Next** . Click on **Finish**
- Click on **Apply and Close**

6. Creating a Java class named ParallelTest.java

- In the Project Explorer, expand **Parallel Tests->Java Resources**
- Right click on **src** and choose **New->Class**
- In **Class Name,** enter **ParallelTests** and click on **Finish.** In **Package Name,** enter **com.parallel** and click on **Finish** ● Enter the following code: **package** com;

```
import org.openqa.selenium.By; import
org.openqa.selenium.WebDriver; import
org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver ;
import org.testng.annotations.Test; public class
ParallelTests {

    WebDriver driver ; @Test
   (groups= "Chrome" ) public
   void LaunchChrome() {
       System. setProperty ( "webdriver.chrome.driver" ,
" C:\\Users\\Prudhvi\\Downloads\\chromedriver_win32
\\chromedriver.exe" ); driver = new
      ChromeDriver(); driver .get(
      "https://www.facebook.com" ); try {
          Thread. sleep (2000);
       } catch (Exception e )
         { e
         .printStackTrace();
       }
   }
    @Test (groups= "Chrome" , dependsOnMethods= "LaunchChrome" )
   public void TryFacebook1() {
       System. out .println(Thread. currentThread ().getId());
       driver .findElement(By. id ( "email" )).sendKeys(
      "Prudhvi@gmail.com" ); driver .findElement(By. id ( "pass"
```

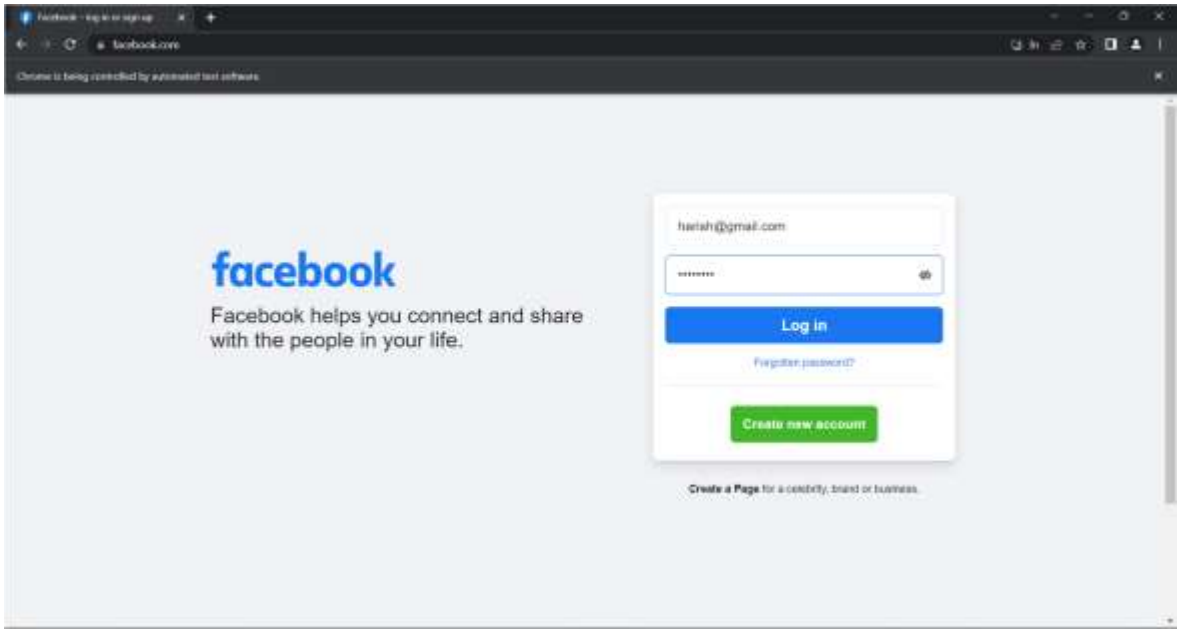
```
        )).sendKeys( "prudhvi@123" );  driver .findElement(By. id (
        "loginbutton" )).click();
    }
    /*   @Test(groups="__Firefox   ")
    public void LaunchFirefox() {
        System.setProperty("webdriver.gecko.driver",
"C:\\Users\\_____hp        \\Downloads\\_____geckodriver        -v0.33.0-
        win32\\geckodriver.exe");          driver     =     new     FirefoxDriver();
        driver.get("https://www.facebook.com");  try {
            Thread.sleep(4000);
        } catch (Exception e) {
            e.printStackTrace();
        }

    }

    @Test(groups="__Firefox   ",   dependsOnMethods="LaunchFirefox")
    public void TryFacebook2() {
        System.out.println(Thread.currentThread().getId());
        driver.findElement(By.id("email")).sendKeys("hema10thstudent@gmail.com");
        driver.findElement(By.id("pass")).sendKeys("hema28394");
        driver.findElement(By.id("_____________loginbutton                    ")).click();
        System.out.println(Thread.currentThread().getId());
    }*/
}
```

Step 2.2.7 Running the project

- Right click on **ParallelTests** class. Click on **TestNG->Convert to TestNG**
- Click on **Finish.** It will create a **TestNG.xml** file. Open that file
- Right click. Select **Run As ->TestNG Suite**



Pushing the code to your GitHub repositories : -

- Open your folder where the Project . And then click the right button to open the git bash command prompt.
- Before that, open the github and create a new repository.
- Initialize your repository using the following command:

git init

- Add all the files to your git repository using the following command: git add .
- To check the status of the repository use the below command: git status
- Commit the changes using the following command:

git commit . -m “Changes have been committed.”

- To add the files to the repository use the (URL) from the github and use the command; git remote add origin <url>
- Push the files to the folder you initially created using the following command:

git push origin master.

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