

Selenium Lesson 3 – Dropdowns, Alerts, Navigation & TestNG Basics

1. Handling Dropdowns

Selenium provides the Select class for interacting with dropdown menus.

Example:

```
import org.openqa.selenium.support.ui.Select;  
  
WebElement drop = driver.findElement(By.id("dropdown-id"));  
Select select = new Select(drop);  
  
select.selectByVisibleText("Option1");  
select.selectByValue("opt2");  
select.selectByIndex(3);
```

2. Handling Alerts

```
// Switch to alert  
Alert alert = driver.switchTo().alert();  
  
// Accept OK button  
alert.accept();  
  
// Cancel a confirmation  
alert.dismiss();  
  
// Get alert text  
String txt = alert.getText();  
  
// Enter text in prompt alert  
alert.sendKeys("Hello");
```

3. Handling Checkboxes & Radio Buttons

```
WebElement checkbox = driver.findElement(By.id("check1"));  
checkbox.click();
```

```
WebElement radio = driver.findElement(By.id("radio1"));
```

```
radio.click();
```

4. Browser Navigation Commands

```
driver.navigate().to("https://example.com");
driver.navigate().back();
driver.navigate().forward();
driver.navigate().refresh();
```

5. Introduction to TestNG

TestNG Annotations:

- @Test – Marks a test method
- @BeforeTest – Runs before all tests
- @AfterTest – Runs after all tests
- @BeforeMethod – Runs before each test method
- @AfterMethod – Runs after each test method

Sample Structure:

```
public class DemoTest {  
  
    @BeforeTest  
    public void setup() {  
        System.out.println("Browser launched");  
    }  
  
    @Test  
    public void testLogin() {  
        System.out.println("Login Test Running...");  
    }  
  
    @AfterTest  
    public void tearDown() {  
        System.out.println("Browser closed");  
    }  
}
```

6. Full Example – TestNG Login Test

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import io.github.bonigarcia.wdm.WebDriverManager;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import java.time.Duration;

public class LoginTest {

    WebDriver driver;

    @BeforeTest
    public void setup() {
        WebDriverManager.chromedriver().setup();
        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
        driver.get("https://www.saucedemo.com/");
    }

    @Test
    public void login() {
        driver.findElement(By.id("user-name")).sendKeys("standard_user");
        driver.findElement(By.id("password")).sendKeys("secret_sauce");
        driver.findElement(By.id("login-button")).click();
    }

    @AfterTest
    public void close() {
        driver.quit();
    }
}
```

Summary of Lesson 3

- You learned how to automate dropdown menus
- You handled alerts (OK/Cancel/Prompt)
- You worked with checkboxes and radio buttons

- You learned browser navigation commands
- You understand TestNG structure with annotations
- You created your first TestNG automation script