

PAGE OBJECT MODEL

- HOW TO IMPLEMENT
WITH
PAGE FACTORIES ?



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1. PROJECT SETUP

```
<!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-java</artifactId>
  <!-- <version>4.10.0</version> -->
  <version>${selenium.java.version}</version>
</dependency>

<!-- https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager -->
<dependency>
  <groupId>io.github.bonigarcia</groupId>
  <artifactId>webdrivermanager</artifactId>
  <version>${webdrivermanager.version}</version>
</dependency>

<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
  <groupId>org.testng</groupId>
  <artifactId>testng</artifactId>
  <version>${testng.version}</version>
  <scope>test</scope>
</dependency>
```



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2. Declare Web Elements

```
/**
 * Data Members | Properties
 * Web Elements Declaration
 */

// With Page Factories
1 usage
@FindBy(xpath = "//*[@id='user-name']")
private WebElement textBox_Username;

1 usage
@FindBy(xpath = "//input[@placeholder='Password']")
private WebElement textBox_Password;

1 usage
@FindBy(id = "login-button")
private WebElement button_Login;
```



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3. Operations on Web Elements

```
/**
 * *****
 * // Methods | Tasks | Functionality | Behavior
 * // Operations on the Web Elements
 * *****
 */

/**
 * Fills the username field with the provided username.
 *
 * @param username The username to be filled in the username field.
 */
1 usage  @Rajat
public void fill_TextBox_Username(String username) { textBox_Username.sendKeys(username); }

/**
 * Fills the password field with the provided password.
 *
 * @param password The password to be filled in the password field.
 */
1 usage  @Rajat
public void fill_TextBox_Password(String password) { textBox_Password.sendKeys(password); }

/**
 * Clicks the login button.
 */
1 usage  @Rajat
public void click_Button_Login() { button_Login.click(); }
```



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4. Create Test and call Objects

```
@Test
public void test_Login_Functionality_Valid_Credentials(){

    getDriver().get("https://www.saucedemo.com/");

    LoginPage loginPage = new LoginPage(getDriver());
    loginPage.fill_TextBox_Username("standard_user");
    loginPage.fill_TextBox_Password("secret_sauce");
    loginPage.click_Button_Login();

    HomePage homePage = new HomePage(getDriver());

    // Assert.assertEquals() -
    // Boolean values as Actual and Expected
    // String values as Actual and Expected
    // This is the example of POLYMORPHISM (OOPS Concept) - Compile Time (Method Overloading)
    // It allows us to perform a single action in different ways.
    Assert.assertEquals(homePage.get_Element_Icon_Twitter().isDisplayed(), expected: true,
        message: "Assertion for Twitter icon presence in the Footer");

    String msg_FooterText_Actual = homePage.get_Element_Msg_Footer().getText();
    String msg_FooterText_Expected = "@ 2023 Sauce Labs. All Rights Reserved. Terms of Service | Privacy Policy";
    Assert.assertEquals(msg_FooterText_Actual, msg_FooterText_Expected,
        message: "Assertion for message present in the Footer");
}
```



@rajatt95





RAJAT VERMA

SUBSCRIBE

SOFTWARE TEST ENGINEER



Gmail: rajatvermaa95@gmail.com



Github Profile: <https://github.com/rajatt95>



Github Page: <https://rajatt95.github.io>



LinkedIn: <https://www.linkedin.com/in/rajatt95>



Topmate: <https://topmate.io/rajatt95>



Telegram: <https://t.me/rajatt95>



Instagram: <https://www.instagram.com/rajattvermaa95>



Youtube: <https://www.youtube.com/@rajatt95>