PAGE OBJECT MODEL







COMPONENTS?



HOW TO HANDLE?







1. PROJECT SETUP

```
<groupId>org.seleniumhq.selenium
<artifactId>selenium-java</artifactId>
<version>${selenium.java.version}
<groupId>org.testng</groupId>
<artifactId>testng</artifactId>
<version>${testng.version}</version>
```









2. Web Elements - Components

```
// Data Members | Properties
// Web Elements Declaration
// Without Page Factories
// Creating WebElements as private and public methods to access them -
 // This is the example of ENCAPSULATION (OOPS Concept)
   // Encapsulation refers to integrating data (variables) and code (methods) into a single unit.
   // A class's variables are hidden from other classes and can only be accessed by the methods of the class
// Locator for the heading SwagLabs
private final By heading_SwagLabs = By.xpath( xpathExpression: "//*[@class='app_logo']");
```









3. Operations - COMPONENT

```
// Methods | Tasks | Functionality | Behavior
 Operations on the Web Elements
* Returns the WebElement representing the heading SwaqLabs in the header component.
* @return The WebElement representing the heading SwagLabs.
public WebElement get_Element_Heading_SwagLabs(){
   return driver.findElement(heading_SwagLabs);
```









4. Declare Web Elements - PAGE

```
// Data Members | Properties
// Web Elements Declaration
// Without Page Factories
// Creating WebElements as private and public methods to access them -
   // This is the example of ENCAPSULATION (OOPS Concept)
       // Encapsulation refers to integrating data (variables) and code (methods) into a single unit.
       // A class's variables are hidden from other classes and can only be accessed by the methods of the class :
private final By icon_Twitter = By.xpath( xpathExpression: "//a[normalize-space()='Twitter']");
private final By msg_Footer = By.xpath( xpathExpression: "//div[@class='footer_copy']");
```









5. Operations - PAGE

```
// Operations on the Web Elements
* @return The WebElement representing the Twitter icon.
public WebElement get_Element_Icon_Twitter() { return driver.findElement(icon_Twitter); }
* Returns the WebElement representing the footer message on the Home page.
* @return The WebElement representing the footer message.
public WebElement get_Element_Msg_Footer() { return driver.findElement(msg_Footer); }
```











6. PAGE - Additional Step

```
public class HomePage {
   WebDriver driver;
   private AppHeader appHeader;
   public AppHeader getAppHeader() {
    * Initializes the WebDriver.
   public HomePage(WebDriver driver){
        this.driver = driver;
        appHeader = new AppHeader(driver);
```









7. Create Test and call Objects

```
public void test_Login_Functionality_Valid_Credentials(){
   getDriver().get("https://www.saucedemo.com/");
   LoginPage loginPage = new LoginPage(getDriver());
   HomePage homePage = loginPage.
           fill_TextBox_Username("standard_user").
           fill_TextBox_Password("secret_sauce").
           click_Button_Login();
   Assert.assertEquals(homePage.getAppHeader().get_Element_Heading_SwagLabs().isDisplayed(), expected: true,
   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(msq_FooterText_Actual, msq_FooterText_Expected,
```













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