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SOFTWARE TESTING





TUTORIAL | DESIGN PATTERN

PAGE OBJECT MODEL
(1)- WHAT|WHY|HOW?



What is Page Object Model?

- 1. It is a **Design Pattern**.
 - a. It is not a framework.
- 2. Also, known as POM.
 - a. This is not related to pom.xml file which we get with the Maven project.





What is Page Object Model?

.....**(2**)

- 1. Selenium documentation
 - a. Page Object is a Design Pattern that has become popular in test automation for
 - i. Enhancing Test Maintenance
 - ii. Reducing code duplication.

Note: Always prefer official documentation first.





What is Web Page?

- 1. A **web page** or **webpage** is a document, commonly written in HTML, that is viewed in an Internet browser.
- 2. It can be accessed by entering a URL address into a browser's address bar.



Web Page contains?

- 1. A Web Page can have n no. of components
 - a. Header
 - b. Footer
 - c. Side Panel
 - d. Menu Section
 - e. Banner
- 2. Example
 - a. Selenium Documentation





Component contains?

- 1. Components can have n no. of Web Elements
 - a. Textbox
 - b. Button
 - c. Link
 - d. Dropdown
 - e. Radio Button
 - f. Checkbox
 - g. Image





Different Operations on Web Elements

- 1. Click
- 2. Double Click
- 3. Right Click
- 4. Mouse Hover
- 5. Send Keys (Fill value in textbox/text area)
- 6. Drag and Drop, etc



Why use Page Object Model?

- 1. Easy Maintenance
- 2. Code Re-Usability
- 3. Readability and Reliability of Scripts
- 4. Object repository is independent of test cases
- 5. It can be used in any kind of framework such as modular, data-driven, keyword-driven, hybrid framework, etc



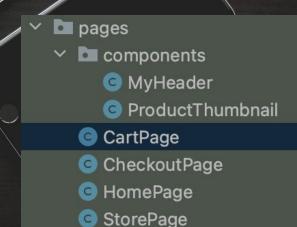


How to implement Page Object Model?

- 1. Each Page is represented by a class
 - a. It contains the
 - i. UI element definitions
 - ii. Methods for **User actions**.











How to implement Page Object Model?

```
// Data Members
// Variables
private final By textBox_Email = By.id("email");
private final By textBox_Password = By.id("password");
private final By button_SignIn = By.xpath( xpathExpression: "//button[normalize-space()='Sign In']");
public SignInPage fill_Textbox_Email(String email){...}
public SignInPage fill_Textbox_Password(String password){...}
public SignInPage click_Button_SignIn(){...}
```









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