

# Page Object Model(POM)

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# Agenda

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7. HomePageTest Class

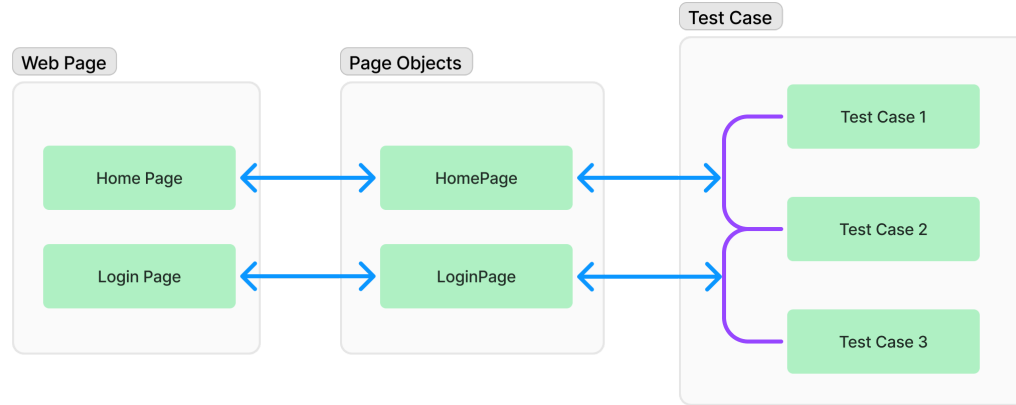
# Page Object Model(POM)

Page Object Model is a design pattern to create Object Repository for web UI elements. Under this model, for each web page in the application, there should be corresponding page class. The page class will find the WebElements of that web page and also contains Page methods which perform operations on those WebElements.

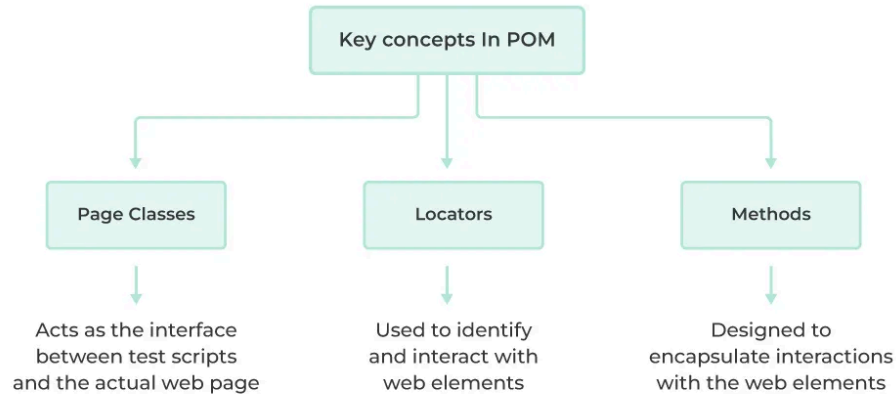
## Why POM?

- Maintainability
- Code Reusability
- Clarity and Readability
- Decoupling Test Logic from UI Logic

# Overview of POM



## Key concepts In POM



# Basic Structure of POM

```
1  src
2  |─ main
3  |   └─ java
4  |       └─ pages
5  |           ├── BasePage.java
6  |           ├── HomePage.java
7  |           ├── LoginPage.java
8  |           └─ ...
9  |       └─ core
10 |           ├── Constants.java
11 |           ├── ResourceStrings.java
12 |           └─ ...
13 |       └─ utils
14 |           ├── ExcelReader.java
15 |           ├── ConfigReader.java
16 |           └─ PDFReader.java
17 └─ test
18     └─ java
19         └─ tests
20             ├── BaseTest.java
21             ├── LoginTest.java
22             ├── HomePageTest.java
23             └─ ...
```

# BasePage Class

```
1  class BasePage {
2      protected WebDriver driver;
3      private static final Logger logger = LogManager.getLogger(BasePage.class);
4
5      public BasePage(WebDriver driver) {
6          this.driver = driver;
7      }
8
9      public void sendKeys(WebElement element, String text) {
10         element.sendKeys(text);
11     }
12
13     public void click(WebElement element) {
14         element.click();
15     }
16
17     public String getText(WebElement element) {
18         return element.getText();
19     }
20
21     public void clear(WebElement element) {
22         element.clear();
23     }
24 }
```

# HomePage Class

```
1  class HomePage extends BasePage {
2      private static final Logger logger = LogManager.getLogger(HomePage.class);
3      private final By accountButtonLocator = By.id("account");
4
5      public HomePage(WebDriver driver) {
6          super(driver);
7      }
8
9      public void clickAccountButton() {
10         WebElement accountButton = driver.findElement(accountButtonLocator);
11         logger.info("Clicking on Account Button");
12         click(accountButton);
13     }
14 }
```

# BaseTest Class


```
1  class BaseTest {
2      protected WebDriver driver;
3      private static final Logger logger = LogManager.getLogger(BaseTest.class);
4
5      @BeforeMethod
6      public void setUp() {
7          driver = new ChromeDriver();
8          logger.info("Driver is initialized");
9          driver.manage().window().maximize();
10         driver.get("https://example.com");
11         logger.info("Navigated to the URL: https://example.com");
12     }
13
14     @AfterMethod
15     public void tearDown() {
16         driver.quit();
17         logger.info("Driver is closed");
18     }
19 }
```



# HomePageTest Class

```
1  class HomePageTest extends BaseTest {  
2      private static final Logger logger = LogManager.getLogger(HomePageTest.class);  
3  
4      @Test  
5      public void testHomePage() {  
6          HomePage homePage = new HomePage(driver);  
7          homePage.clickAccountButton();  
8          logger.info("Clicked on Account Button");  
9      }  
10 }
```

Thank you 

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