

Page Object Design Pattern

LandingPage.java

```
package in.Amazon.Pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class LandingPage {

    @FindBy(linkText = "Mobiles")
    private WebElement mobiles;

    public LandingPage(WebDriver driver) {
        PageFactory.initElements(driver, this);
    }

    public void clickMobiles() {
        mobiles.click();
    }
}
```

AllMobileBrands.java

```
package in.Amazon.Pages;

import java.time.Duration;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.FindBy;
```

```

import org.openqa.selenium.support.PageFactory;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;

public class AllMobileBrands {
    private Actions actions;
    private WebDriverWait wait;

    @FindBy(linkText = "Mobiles & Accessories")
    private WebElement mobilesAndAccessories;

    @FindBy(linkText = "Apple")
    private WebElement apple;

    public AllMobileBrands(WebDriver driver) {
        PageFactory.initElements(driver, this);
        actions = new Actions(driver);
        wait = new WebDriverWait(driver, Duration.ofSeconds(60));
    }

    public void hoverOverMobilesAndAccessories() {
        actions.moveToElement(mobilesAndAccessories).build().perform();
    }

    public void clickApple() {
        wait.until(ExpectedConditions.visibilityOf(apple));
        apple.click();
    }
}

```

ApplePhones.java

```
package in.Amazon.Pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class ApplePhones {

    @FindBy(xpath = "(//div[contains(@class, 'card-container')])[1]")
    private WebElement firstMobile;

    public ApplePhones(WebDriver driver) {
        PageFactory.initElements(driver, this);
    }

    public void clickFirstMobile() {
        firstMobile.click();
    }

}
```

BuyMobilePhoneTest.java

```
package in.Amazon.TestScripts;

import java.util.ArrayList;
import org.testng.Assert;
import org.testng.annotations.Test;
import in.Amazon.Pages.AllMobileBrands;
```

```
import in.Amazon.Pages.ApplePhones;

import in.Amazon.Pages.BuyPhone;

import in.Amazon.Pages.LandingPage;

import in.Amazon.Pages.SignIn;


public class BuyMobilePhoneTest extends BaseTest {

    @Test

    public void BuyMobile() {

        // 4. Click on 'Mobiles' in the navigation bar
        LandingPage landingPage = new LandingPage(driver);
        landingPage.clickMobiles();


        // 5. Hover the pointer over the 'Mobiles & Accessories'
        AllMobileBrands allMobileBrands = new AllMobileBrands(driver);
        allMobileBrands.hoverOverMobilesAndAccessories();


        // 6. Click on 'Apple' in the sub-menu
        allMobileBrands.clickApple();


        // 7. Click first available phone
        ApplePhones applePhones = new ApplePhones(driver);
        applePhones.clickFirstMobile();


        // 8. Switch focus on new tab
        ArrayList<String> tabs = new ArrayList<>(driver.getWindowHandles());
        driver.switchTo().window(tabs.get(1));


        // 9. Click on 'Buy Now' button
        BuyPhone buyPhone = new BuyPhone(driver);
        buyPhone.clickBuyNowBtn();
```

```
// 10. Verify user sees the text 'Sign in' on the page
```

```
SignIn signIn = new SignIn(driver);
```

```
String expectedText = "Sign in";
```

```
String actualText = signIn.getSignInText();
```

```
Assert.assertEquals(actualText, expectedText);
```

```
}
```

```
}
```