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

```
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();
       }
}
```

<u>BuyMobilePhoneTest.java</u>

```
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);
}
```

}