

Reading Data from an Excel Sheet

BaseTest.java

```
package in.Amazon.TestScripts;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;

public class BaseTest {
    WebDriver driver;

    @BeforeTest
    public void LaunchApplication() {
        // 1. Open the browser
        driver = new EdgeDriver();

        // 2. Maximize it
        driver.manage().window().maximize();

        // 3. Navigate to https://amazon.in
        driver.get("https://amazon.in");
    }

    @AfterTest
    public void CloseBrowser() {
        driver.quit();
    }
}
```

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);
    }

}

```

DDF.java

```

package in.Amazon.TestScripts;

import java.io.IOException;
import org.testng.Assert;
import org.testng.annotations.Test;
import in.Amazon.Pages.LandingPage;
import in.Amazon.Pages.SignIn;
import utils.ReadExcel;

public class DDF extends BaseTest {
    // Data Driven Framework
    @Test
    public void verifyErrorMsg() throws IOException {
        // 4. Hover the pointer over "Hello Sign-in" menu
        LandingPage landingPage = new LandingPage(driver);
    }
}

```

```

        landingPage.hoverOverHelloSignInMenu();

        // 5. Click on "Sign-in" button in the sub-menu
        landingPage.clickSignInBtn();

        String[][] data =
ReadExcel.getData("resources/TestData.xlsx", "Sheet1");

        for (int i = 1; i < 6; i++) {
            String username = data[i][1];
            // 6. Enter invalid username in the email textbox
            SignIn signIn = new SignIn(driver);
            signIn.enterEMail(username);

            // 7. Click on 'Continue' button
            signIn.clickContinueBtn();

            // 8. Verify the error message - 'We cannot find
an account with that email
            // address' is displayed to the user
            String expectedErrMsg = "We cannot find an account
with that email address";
            String actualErrMsg = signIn.getErrMsg();
            Assert.assertEquals(actualErrMsg, expectedErrMsg);
        }
    }
}

```

VerifyErrorMessageTest.java

```

package in.Amazon.TestScripts;

import org.testng.Assert;
import org.testng.annotations.Test;

```

```
import in.Amazon.Pages.LandingPage;
import in.Amazon.Pages.SignIn;

public class VerifyErrorMessageTest extends BaseTest {
    @Test
    public void verifyErrMsg() {
        // 4. Hover the pointer over "Hello Sign-in" menu
        LandingPage landingPage = new LandingPage(driver);
        landingPage.hoverOverHelloSignInMenu();

        // 5. Click on "Sign-in" button in the sub-menu
        landingPage.clickSignInBtn();

        // 6. Enter invalid username in the email textbox
        SignIn signIn = new SignIn(driver);
        signIn.enterEMail("batman4455@gmail.com");

        // 7. Click on 'Continue' button
        signIn.clickContinueBtn();

        // 8. Verify the error message - 'We cannot find an
account with that email
        // address' is displayed to the user
        String expectedErrMsg = "We cannot find an account with
that email address";
        String actualErrMsg = signIn.getErrMsg();
        Assert.assertEquals(actualErrMsg, expectedErrMsg);
    }
}
```

ReadExcel.java

```
package utils;

import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import org.apache.poi.ss.usermodel.Cell;
import org.apache.poi.ss.usermodel.DataFormatter;
import org.apache.poi.ss.usermodel.Row;
import org.apache.poi.ss.usermodel.Sheet;
import org.apache.poi.ss.usermodel.Workbook;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;

public class ReadExcel {

    public static String[][] getData(String fileName, String
sheetName) throws IOException {

        File file = new File(fileName);

        FileInputStream ips = new FileInputStream(file); //
FileOutputStream for writing the data on excel sheet

        Workbook Wb = new XSSFWorkbook(ips);
        Sheet Sh = Wb.getSheet(sheetName);
        int rowNum = Sh.getLastRowNum() + 1;
        int colNum = Sh.getRow(0).getLastCellNum();
        String[][] data = new String[rowNum][colNum];

        for (int i = 0; i < rowNum; i++) {
            Row row = Sh.getRow(i);
            for (int j = 0; j < colNum; j++) {
                Cell cell = row.getCell(j);
                String value = new
DataFormatter().formatCellValue(cell);
                data[i][j] = value;
            }
        }
    }
}
```

```

        }
        return data;
    }
}

```

SignIn.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 SignIn {
    @FindBy(xpath = "//h1[contains(@class, 'small')]")
    private WebElement signInText;

    @FindBy(id = "ap_email")
    private WebElement emailTextBox;

    @FindBy(id = "continue")
    private WebElement continueBtn;

    @FindBy(xpath = "//span[contains(@class, 'a-list-item')]")
    private WebElement errMsg;

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

    public String getSignInText() {

```

```
        String text = signInText.getText();
        return text;
    }

    public void enterEmail(String email) {
        emailTextBox.clear();
        emailTextBox.sendKeys(email);
    }

    public void clickContinueBtn() {
        continueBtn.click();
    }

    public String getErrMsg() {
        String message = errMsg.getText();
        return message;
    }
}
```