

```
package KitePOMUsingTestNG;

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

public class KiteLoginPage

{

    // 1.data members
    @FindBy (id = "userid") private WebElement userName;
    @FindBy (id = "password") private WebElement password;
    @FindBy (xpath = "//button[@type='submit']") private WebElement loginButton;

    //2. constructor

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

    //3. methods

    public void sendUserName(String UserName)
    {
        userName.sendKeys(UserName);
    }

    public void sendPassword(String passWord)
```

```
{
    password.sendKeys(passWord);
}
```

```
public void clickOnLoginButton()
{
    loginButton.click();
}
```

$$\}$$

```
package KitePOMUsingTestNG;
```

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

```
public class KitePinPage
```

$$\{$$

//1

```
@FindBy(id = "pin") private WebElement PIN;
```

```
@FindBy(xpath = "//button[@type='submit']") private WebElement continueButton;
```

//2

```
public KitePinPage(WebDriver driver)
```

 $\{$

```
PageFactory.initElements(driver, this);
```

}

```
//3
```

```
public void sendPin(String pin)
{
    PIN.sendKeys(pin);
}
```

```
public void clickOnContinueButton()
{
    continueButton.click();
}
```

```
}
```

```
package KitePOMUsingTestNG;
```

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

```
public class KiteHomePage
```

```
{
```

```
//1
```

```
@FindBy(xpath = "//span[@class='user-id']") private WebElement userName;
```

```
@FindBy(xpath = "//a[@target='_self']") private WebElement logOutButton;
```

```
//2
```

```
public KiteHomePage(WebDriver driver)
```

```
{
```

```

        PageFactory.initElements(driver, this);
    }

    //3

    public void validateUserName(String expextedUserID)
    {

        String expextedUserName=expextedUserID;
        String actualUserName = userName.getText();

        if(expextedUserName.equals(actualUserName))
        {
            System.out.println("Actual and Expected User Id are matching TC is
passed");
        }

        else {
            System.out.println("Actual and Expected User Id are not matching TC is
failed");
        }

    }

    //to get actual userName
    public String getActualUserName()
    {
        String actualUserName = userName.getText();
        return actualUserName;
    }

    public void logOut() throws InterruptedException

```

```
{
    userName.click();
    Thread.sleep(200);
    logOutButton.click();
}
}
```

```
package KitePOMUsingTestNG;
```

```
import java.io.File;
import java.io.IOException;
import java.time.Duration;
```

```
import org.apache.poi.EncryptedDocumentException;
import org.apache.poi.ss.usermodel.Sheet;
import org.apache.poi.ss.usermodel.WorkbookFactory;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.testng.Assert;
import org.testng.Reporter;
import org.testng.annotations.AfterClass;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
```

```
public class ValidateKiteAppUserName {
```

```
    WebDriver driver;
    Sheet mySheet;
    KiteLoginPage login;
    KitePinPage pin;
    KiteHomePage home;
```

```
@BeforeClass
```

```
public void launchBrowser() throws EncryptedDocumentException, IOException
{
    System.setProperty("webdriver.chrome.driver", "D:\\\\Velocity\\Java Class\\26th
March B\\Selenium\\chromedriver.exe");
```

```
    ChromeOptions opt= new ChromeOptions();
    //opt.addArguments("--headless");
    //opt.addArguments("--disable-notifications");
    opt.addArguments("incognito");
    driver= new ChromeDriver(opt);
    driver.manage().window().maximize();
    driver.get("https://kite.zerodha.com/");
```

```

        Reporter.log("Launching browser",true);
        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(1000));
        File myfile= new File("D:\\Velocity\\Java Class\\26th March
B\\Selenium\\Excel26thMarchB.xlsx");
        mySheet = WorkbookFactory.create(myfile).getSheet("Sheet2");

        login= new KiteLoginPage(driver);
        pin = new KitePinPage(driver);
        home= new KiteHomePage(driver);

    }
    @BeforeMethod
    public void loginToKiteApp()
    {
        String UN = mySheet.getRow(5).getCell(0).getStringCellValue();
        String PWD = mySheet.getRow(5).getCell(1).getStringCellValue();
        String PIN = mySheet.getRow(5).getCell(2).getStringCellValue();

        login.sendUserName(UN);
        Reporter.log("sending username",true);
        login.sendPassword(PWD);
        Reporter.log("sending password",true);
        login.clickOnLoginButton();
        Reporter.log("clicking on login button",true);
        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(1000));

        pin.sendPin(PIN);
        Reporter.log("sending PIN",true);
        pin.clickOnContinueButton();
        Reporter.log("clicking on continue button",true);
        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(1000));

    }

    @Test
    public void validateUserName()
    {
        String expectedUN = mySheet.getRow(5).getCell(0).getStringCellValue();
        String actualUN = home.getActualUserName();
        Reporter.log("Validating UserName",true);
        Assert.assertEquals(actualUN, expectedUN,"Actual and Expected UN are not
matching TC failed");
        Reporter.log("Actual and Expected UN are matching TC PASSED",true);

    }

    @AfterMethod
    public void logoutFromKiteApp() throws InterruptedException
    {
        home.logout();
        Reporter.log("logging out...",true);
    }

```

```

    }

    @AfterClass
    public void closeBrowser() throws InterruptedException
    {
        Thread.sleep(2000);
        Reporter.log("Closing browser",true);
        driver.close();
    }
}

```

Kite Using Utility and Base

POM Classes will be same as previous

```

package KiteBase;

import java.time.Duration;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.testng.Reporter;

public class Base
{
    protected WebDriver driver;
    public void openBrowser()
    {
        System.setProperty("webdriver.chrome.driver", "D:\\\\Velocity\\Java Class\\26th
March B\\Selenium\\chromedriver.exe");

        ChromeOptions opt= new ChromeOptions();
        opt.addArguments("--disable-notifications");
        opt.addArguments("incognito");
        driver= new ChromeDriver(opt);
        driver.manage().window().maximize();
        driver.get("https://kite.zerodha.com/");
        Reporter.log("Launching browser",true);
        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(1000));
    }
}

package KiteUtility;

import java.io.File;
import java.io.IOException;

import org.apache.poi.EncryptedDocumentException;

```

```

import org.apache.poi.ss.usermodel.Sheet;
import org.apache.poi.ss.usermodel.WorkbookFactory;

public class Utility
{
    //excel
    //screenshot
    //closing

    public static String readDataFromExcel(int row, int cell) throws
    EncryptedDocumentException, IOException
    {
        File myfile= new File("D:\\Velocity\\Java Class\\26th March
B\\Selenium\\Excel26thMarchB.xlsx");
        Sheet mySheet = WorkbookFactory.create(myfile).getSheet("Sheet2");
        String value = mySheet.getRow(row).getCell(cell).getStringCellValue();
        return value;
    }
}

```

```

package KiteTest;

```

```

import java.io.IOException;
import java.time.Duration;

import org.apache.poi.EncryptedDocumentException;
import org.testng.Assert;
import org.testng.annotations.AfterClass;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;

import KiteBase.Base;
import KitePOMnew.KiteHomePage;
import KitePOMnew.KiteLoginPage;
import KitePOMnew.KitePinPage;
import KiteUtility.Utility;

```

```

public class ValidateKiteUserID extends Base {

    KiteHomePage home;
    KiteLoginPage login;
    KitePinPage pin;

    @BeforeClass
    public void launchBrowser()
    {
        openBrowser();
        login= new KiteLoginPage(driver);
        pin= new KitePinPage(driver);
    }
}

```



```

        home= new KiteHomePage(driver);
    }

    @BeforeMethod
    public void loginToKiteApp() throws EncryptedDocumentException, IOException
    {
        login.sendUserName(Utility.readDataFromExcel(5, 0));
        login.sendPassword(Utility.readDataFromExcel(5, 1));
        login.clickOnLoginButton();

        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(1000));

        pin.sendPin(Utility.readDataFromExcel(5, 2));
        pin.clickOnContinueButton();
        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(1000));
    }

    @Test
    public void validateUserID() throws EncryptedDocumentException, IOException
    {
        Assert.assertEquals(home.getActualUserName(), Utility.readDataFromExcel(5,
0),"Actual and Expected are not matching TC is failed");
    }

    @AfterMethod
    public void logOutFromKite() throws InterruptedException
    {
        home.logOut();
    }

    @AfterClass
    public void closeBrowser()
    {
        driver.close();
    }
}

```