## 2.1

| | 1. Login to admin portal<br>2. Goto Catalog and then product<br>3. Search for any one product<br>4. Get the price from the list and reduce 5%<br>5. Go to userpage (https://atozgroceries.com)<br>6. Search for the same product<br>7. Verify the price in userpage | |
|---|---|---|
| Search for product and validate the price | | 1. Verify the price in userpage |

## 2.2 coding

## AdminPage

package com.ibm.pages;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.How;

import org.openqa.selenium.support.PageFactory;

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

public class AdminPage {

    @FindBy(how=How.NAME,using="email")WebElement emailEle;

    @FindBy(how=How.NAME,using="pword")WebElement passEle;

    @FindBy(how=How.XPATH,using="//button[@class='btn btn-labeled btn-info m-b-5']")WebElement loginEle;

    WebDriverWait wait;

    WebDriver driver;

    public AdminPage(WebDriver driver,WebDriverWait wait) {

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

            this.driver=driver;

            this.wait=wait;

        }

        public AdminPage enterEmailAddress(String uname)

        {

            emailEle.sendKeys(uname);

            return this;

        }


        public AdminPage enterPassword(String pwd)

        {

            passEle.sendKeys(pwd);

            return this;

        }


        public void clickOnLogin()

        {

            loginEle.click();


        }


}
```

## Product Page

```java
package com.ibm.pages;


import java.util.ArrayList;

import java.util.List;


import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;
```

```java
import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.How;

import org.openqa.selenium.support.PageFactory;

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


public class ProductPage {


    @FindBy(how=How.XPATH,using="(//a[@class='material-ripple'])[2]")WebElement catalog;

    @FindBy(how=How.XPATH,using="(//a[@class='material-ripple'])[6]")WebElement products;

    @FindBy(how=How.XPATH,using="//table[@id='dataTableExample2']/tbody/tr[2]/td[9]")WebElement table;

    @FindBy(how=How.LINK_TEXT,using="Edit")WebElement edit;

    @FindBy(how=How.XPATH,using="//input[@class='form-control input-sm']")WebElement search;

    @FindBy(how=How.XPATH,using="//*[@id='dataTableExample2']/tbody/tr/td[5]")WebElement price;

    WebDriverWait wait;

    WebDriver driver;


    public ProductPage(WebDriver driver,WebDriverWait wait) {

        PageFactory.initElements(driver, this);

        this.driver=driver;

        this.wait=wait;

    }
    public void clickCatalog()

    {

        catalog.click();

    }


    public void clickProducts()

    {
```

```java
        products.click();
}
public void actionTable()
{
        table.click();
}
public void clickEdit()
{
        edit.click();
}
public void sendkeysSearch(String data)
{
        search.sendKeys(data);
}
public float roundOff;
public void pricevalue()
{
        String pv=price.getText().replace(",", "");
        String rline=pv.substring(0,pv.indexOf("\n"));
        System.out.println("Actual price : " + rline);



        float actual_value=Float.parseFloat(rline);


        System.out.println(actual_value);


        float percentage = actual_value * 5/100;


        float result = actual_value - percentage;
```

```java
            System.out.println("5 % reduced value:" + result);

            roundOff=Math.round(result);

            System.out.println(roundOff);


    }
}
```

## UserPortalLoginPage

```java
        package com.ibm.pages;


    import java.util.List;


    import org.openqa.selenium.By;

    import org.openqa.selenium.WebDriver;

    import org.openqa.selenium.WebElement;

    import org.openqa.selenium.support.FindBy;

    import org.openqa.selenium.support.How;

    import org.openqa.selenium.support.PageFactory;

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


    public class UserPortalLoginPage {


        WebDriverWait wait;

        WebDriver driver;

        @FindBy(how=How.XPATH,using="//span[@class='input-group-
addon']")WebElement searchIcon;

        @FindBy(how=How.XPATH,using="(//span[@class='click-categories flaticon-
bars'])[2]")WebElement categoryList;

        @FindBy(how=How.XPATH,using="(//input[@type='text'])[2]")WebElement
searchProducts;
```

```java
        @FindBy(how=How.XPATH,using="//span[text()='Bislery Water']")WebElement
searchResult;

        @FindBy(how=How.XPATH,using="//*[@id='mm-
0']/div[5]/div/div[2]/div/div/div[2]/div/p[1]/span") WebElement pricetext;

        public UserPortalLoginPage(WebDriver driver,WebDriverWait wait) {

                PageFactory.initElements(driver, this);

                this.driver=driver;

                this.wait=wait;

        }

        public void clickSearchIcon()

        {

                searchIcon.click();

        }

        public void shopByCategory() throws InterruptedException

        {

                categoryList.click();


        }

        public void searchproduct(String product)

        {

                searchProducts.sendKeys(product);


        }

        public void clickOnSearchResults()

        {

                searchResult.click();

        }


        public float expected_value;


        public void price_value()

        {
```

```java
                String pc=        pricetext.getText().replace("₹", "");


                float value=Float.parseFloat(pc);
            expected_value=Math.round(value);
                System.out.println("expected_value :" + expected_value);



            }
        }
```

## TC007

```java
package com.ibm.test;


import java.io.IOException;

import java.util.HashMap;

import java.util.concurrent.TimeUnit;


import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.support.PageFactory;

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

import org.testng.Assert;

import org.testng.Reporter;

import org.testng.annotations.BeforeMethod;

import org.testng.annotations.BeforeSuite;

import org.testng.annotations.Test;


import com.ibm.pages.AdminPage;

import com.ibm.pages.ProductPage;

import com.ibm.pages.UserPortalLoginPage;

import com.ibm.utilities.PropertiesFileHandler;


public class TC007 {
```

```java
WebDriver driver;

WebDriverWait wait;

PropertiesFileHandler propFileHandler;

HashMap<String, String> data;


@BeforeSuite
public void preSetForTest() throws IOException {

        String file = "./TestData/data.properties";

        propFileHandler = new PropertiesFileHandler();

        data = propFileHandler.getPropertiesAsMap(file);

}


@BeforeMethod
public void Initialization() {

        System.setProperty("webdriver.chrome.driver", "./drivers/chromedriver.exe");

        driver = new ChromeDriver();

        wait = new WebDriverWait(driver, 60);

        driver.manage().window().maximize();

        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);


}


/*@AfterMethod
public void closeBrowser() {

        driver.quit();

}*/


@Test(testName = "UserPageValidation")
public void testCase7() throws IOException, InterruptedException {
```

```java
String url = data.get("url");
String userName = data.get("uname");
String password = data.get("pwd");
String search=data.get("searchProduct");

driver.get(url);

AdminPage admin = new AdminPage(driver, wait);
admin.enterEmailAddress(userName);
admin.enterPassword(password);
admin.clickOnLogin();

ProductPage pp =new ProductPage(driver,wait);
pp.clickCatalog();
pp.clickProducts();
pp.sendkeysSearch(search);
pp.pricevalue();

String userUrl=data.get("userurl");
driver.get(userUrl);

UserPortalLoginPage uplp = new UserPortalLoginPage(driver,wait);

uplp.clickSearchIcon();
uplp.searchproduct(search);
Thread.sleep(3000);
uplp.clickOnSearchResults();
uplp.price_value();

Assert.assertEquals(pp.roundOff,uplp.expected_value);
Reporter.log("Value is matched");
```

```
        }


}
```

## Data.Properties

```
url=https://atozgroceries.com/admin
uname=demo@atozgroceries.com
pwd=456789
bannerName=Pavithra
producttitle=Products | Admin Panel - Powered By A&S
nName=easyordering
pushnotificationPageTitle=Push Notification | Admin Panel - Powered By A&S
returnStatusName=Return Status Name
weightClassText= Edit Weight Class
toolTipMessage=Please fill out this field.
userurl=https://atozgroceries.com/
searchProduct=Bislery Water
```

## TestNgXML

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">
<suite name="Suite">
  <test thread-count="5" name="Test">
    <classes>
      <!-- <class name="com.ibm.test.BaseTest"/> -->
      <!-- <class name="com.ibm.test.TC001"/> -->
      <!-- <class name="com.ibm.test.TC002"/> -->
     <!--  <class name="com.ibm.test.TC003"/> -->
      <class name="com.ibm.test.TC007"/>
    </classes>
  </test> <!-- Test -->
</suite> <!-- Suite -->
```
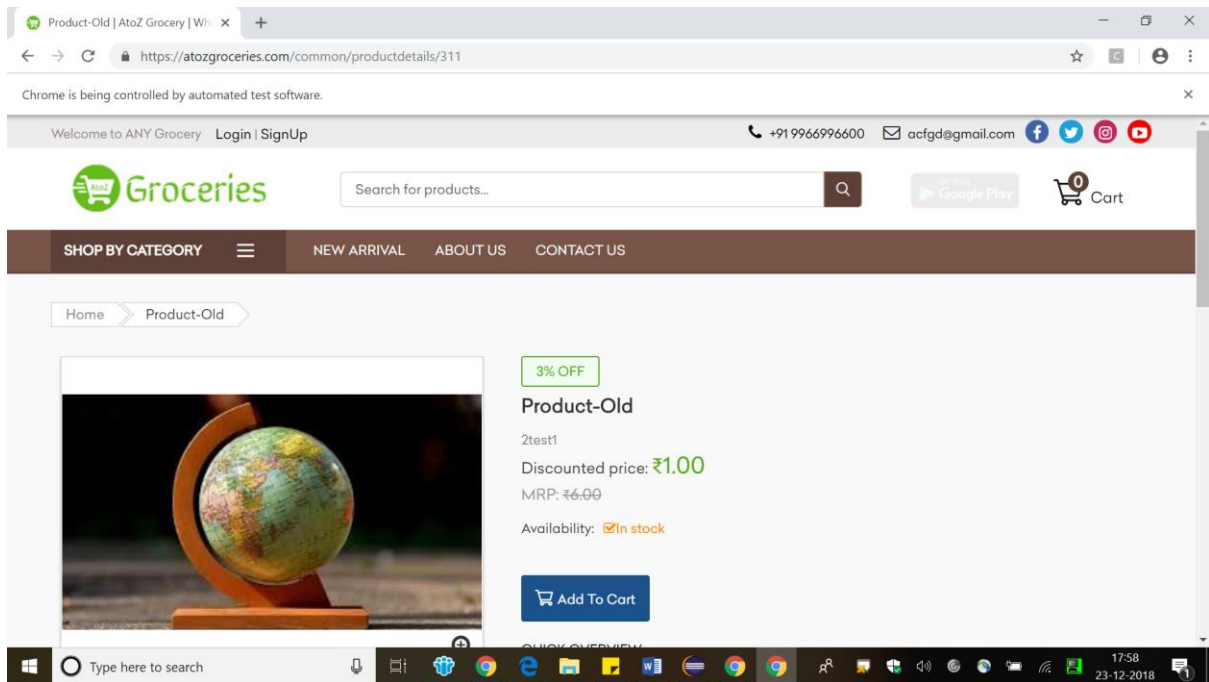
## 2.3 Explanation

1. Created a AdminLoginpage,ProductPage ,UserPortalLoginPage using Page object model where implemented Page factory concept as well.

2.AdminLoginPage implemented the methods like uname ,pwd and login

3.ProductPage clicking on catalog and product tabs and navigating to the  table Search for the product and reduce the price from the list to 5%

4.Login to userPage and getting the category list.

5. Verify the values in both the table.

6.Values are sending from data.properties file using hashmap concept key and value pair.

7.Creating object for all the pages and calling all the methods in TC007.java file where implementing @Test.

8.Converting the project into testng.xml to execute all the codes at one run.

9.Finally attaching the result in htmlreporter

## 2.4 Output

[RemoteTestNG] detected TestNG version 6.14.2
Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 27953
Only local connections are allowed.
Dec 24, 2018 7:26:51 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Actual price : 19.95
19.95
5 % reduced value:18.952501
19.0
expected_value :19.0
PASSED: testCase7


===============================================
    Default test
    Tests run: 1, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 1, Failures: 0, Skips: 0
===============================================

| Test | # Passed | # Skipped | # Failed | Time (ms) | Included Groups | Excluded Groups |
|------|----------|-----------|----------|-----------|-----------------|-----------------|
| Default suite | | | | | | |
| Default test | 1 | 0 | 0 | 55,632 | | |

| Class | Method | Start | Time (ms) |
|-------|--------|-------|-----------|
| Default suite | | | |
| Default test — passed | | | |
| com.ibm.test.TC007 | testCase7 | 1545659812678 | 51111 |

## Default test

### com.ibm.test.TC007#testCase7

| Messages |
|----------|
| Value is matched |

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