2.1

	1. Login to admin portal 2. Goto Catalog and then product 3. Search for any one product 4. Get the price from the list and reduce 5% 5. Go to userpage (https://atozgroceries.com)	
Search for product and validate the price	6. Search for the same product 7. Verify the price in userpage	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 void pricevalue()
    {
            String pv=price.getText();
            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;


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

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;

    @FindBy(how=How.XPATH,using="//span[text()='Product-Old']")WebElement searchResult;

    public UserPortalLoginPage(WebDriver driver,WebDriverWait wait) {

        PageFactory.initElements(driver, this);

        this.driver=driver;

        this.wait=wait;

    }

    public void clickSearchIcon()

    {
```

```java
                        searchIcon.click();

                }

                public void shopByCategory() throws InterruptedException

                {

                        categoryList.click();


                }

                public void searchproduct(String product)

                {

                        searchProducts.sendKeys(product);


                }

                public void clickOnSearchResults()

                {

                        searchResult.click();

                }

        }
```

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.annotations.BeforeMethod;

import org.testng.annotations.BeforeSuite;

import org.testng.annotations.Test;
```

```java
import com.ibm.pages.AdminPage;

import com.ibm.pages.ProductPage;

import com.ibm.pages.UserPortalLoginPage;

import com.ibm.utilities.PropertiesFileHandler;


public class TC007 {


        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
```

```java
        public void closeBrowser() {

                driver.quit();

        }*/


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


                        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();


        }


}
```
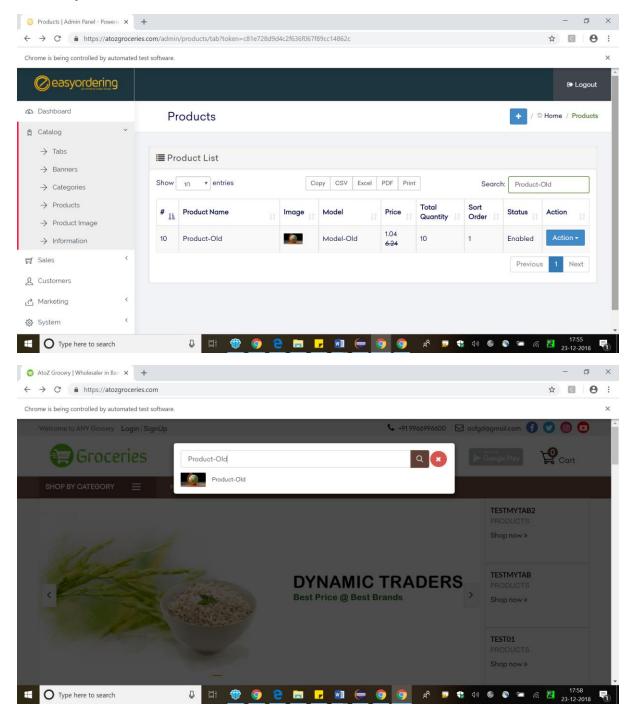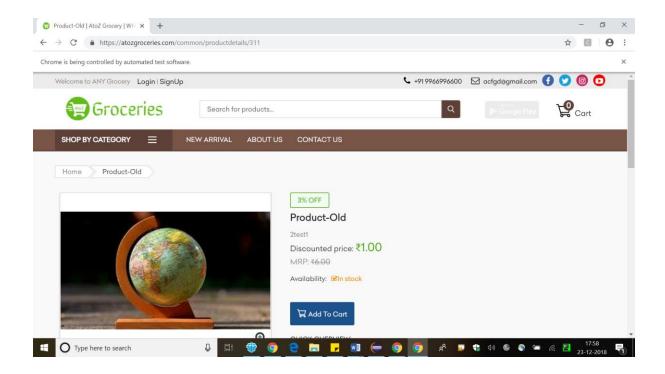
Data.Properties

```
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=Product-Old
```

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 -->
```

2.4 Output

```
[RemoteTestNG] detected TestNG version 6.14.2
Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on
port 2833
Only local connections are allowed.
Dec 23, 2018 5:52:33 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Actual price : 1.04
1.04
5 % reduced value:0.988


===============================================
Suite
Total tests run: 1, Failures: 0, Skips: 0
===============================================
```