

2.1

	<ol style="list-style-type: none">1. Login to admin portal2. Goto Catalog and then product3. Search for any one product4. Get the price from the list and reduce 5%5. Go to userpage (https://atozgroceries.com)6. Search for the same product7. 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) {
```

```

        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

```

package com.ibm.pages;

import java.util.ArrayList;
import java.util.List;

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 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]")W
ebElement 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()

    {

```

```

        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

```
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()

    {
```

```

        searchIcon.click();
    }

    public void shopByCategory() throws InterruptedException
    {
        categoryList.click();

    }

    public void searchproduct(String product)
    {
        searchProducts.sendKeys(product);

    }

    public void clickOnSearchResults()
    {
        searchResult.click();
    }
}

```

TC007

```

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;

```

```
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
```

```
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 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

Products | Admin Panel - Power x

https://atozgroceries.com/admin/products/tab?token=c81e728d9d4c2f636f067f89cc14862c

Chrome is being controlled by automated test software.

easyordering

Logout

Dashboard

Catalog

- Tabs
- Banners
- Categories
- Products
- Product Image
- Information

Sales

Customers

Marketing

System

Products

+ / Home / Products

Product List

Show 10 entries

Copy CSV Excel PDF Print

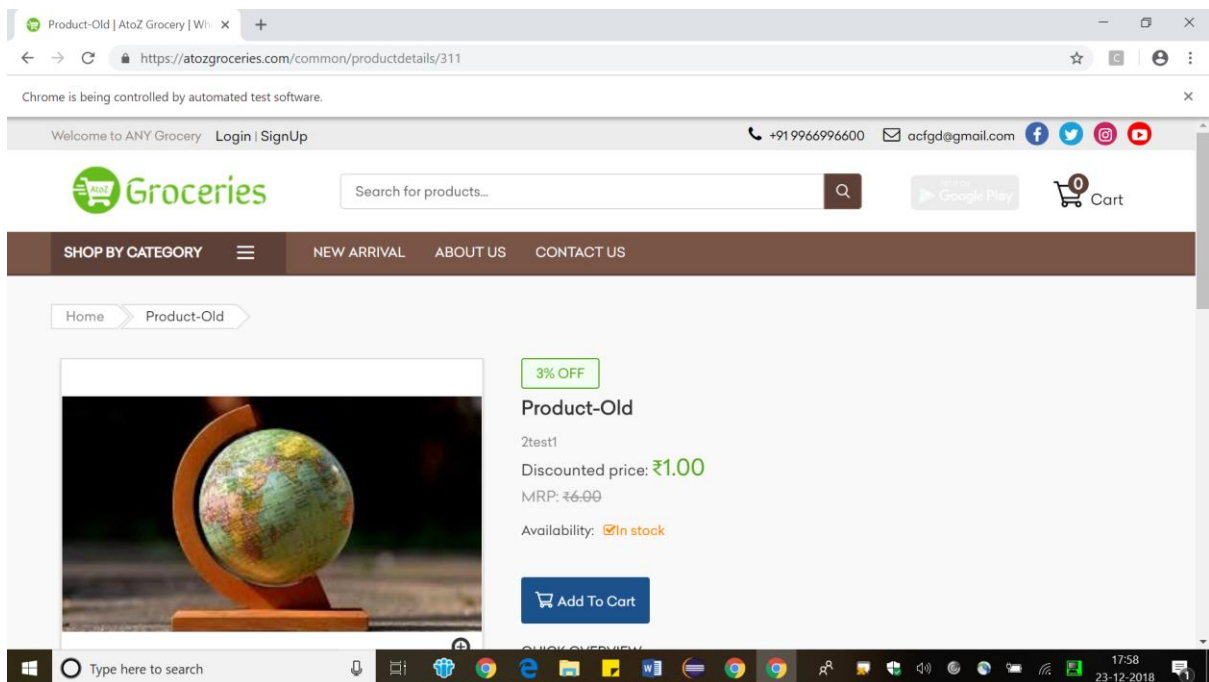
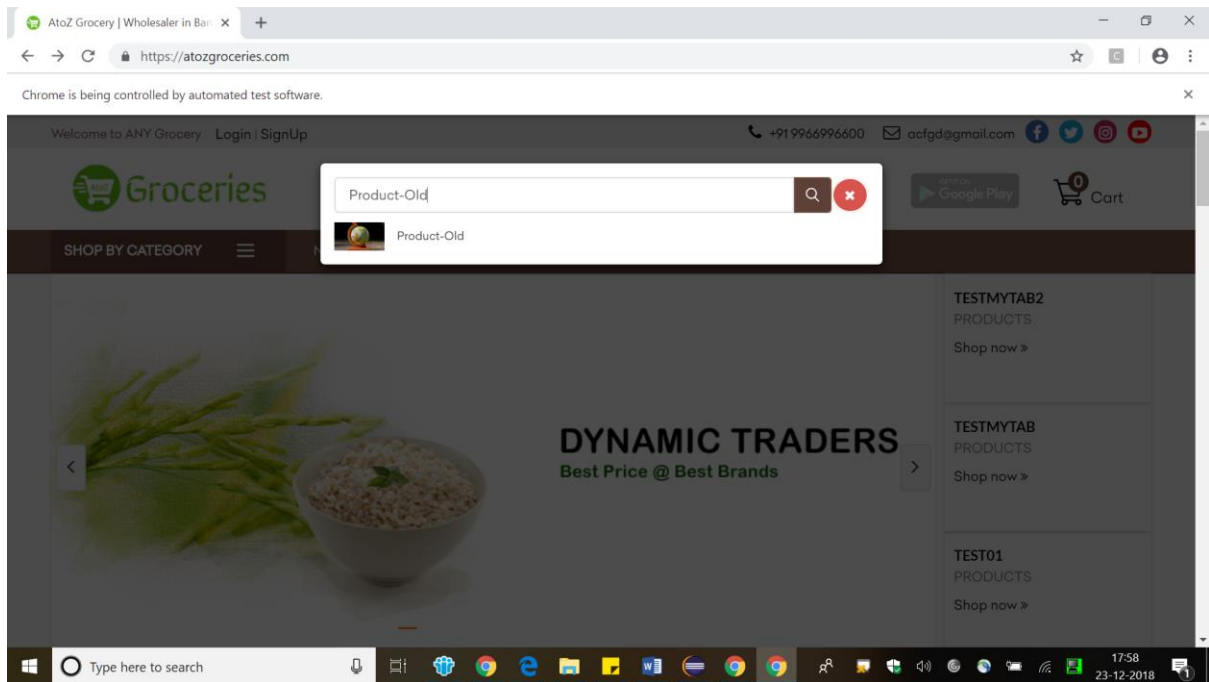
Search: Product-Old

#	Product Name	Image	Model	Price	Total Quantity	Sort Order	Status	Action
10	Product-Old		Model-Old	1.04 6.24	10	1	Enabled	Action

Previous 1 Next

Type here to search

17:55 23-12-2018



[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
=====