

EcommerceMenuPage:

```
package PageObjects;

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

public class EcommerceMenuPage {

    public static WebDriver driver;

    public EcommerceMenuPage(WebDriver driver)
    {
        this.driver=driver;

        PageFactory.initElements(driver,this);
    }

    @FindBy(xpath="//a[text()='All Products\\'"]")
    public WebElement allProductsLink;

    @FindBy(xpath="//a[text()='Electronics\\'"]")
    public WebElement electronicLink;

    @FindBy(xpath="//a[text()='Kitchen Items\\'"]")
    public WebElement kitchenLink;

    @FindBy(xpath="//a[text()='Sports\\'"]")
    public WebElement sportsLink;
}
```

ElectronicsPage:

```
package PageObjects;

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

public class ElectronicsPage {

    public static WebDriver driver;

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

    @FindBy(xpath="//input[@placeholder='Search by name...\\'"]")
    public WebElement searchBar;

    @FindBy(xpath="//div[text()='s21\\'"]")
```

```

    public WebElement s21Nametext;

    @FindBy(xpath="//div[text()='\"65000.00\"]")
    public WebElement s21Price;
}

```

KitchenItemsPage:

```

package PageObjects;

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

public class KitchenItemsPage {

    public static WebDriver driver;

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

    @FindBy(xpath="//input[@placeholder='\"Search by name...\"']")
    public WebElement searchBar;

    @FindBy(xpath="//div[text()='\"Prestige Stove\"]")
    public WebElement prestigeStoveName;

    @FindBy(xpath="//div[text()='\"14500.00\"]")
    public WebElement prestigeStovePrice;
}

```

SportsPage:

```

package PageObjects;

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

public class SportsPage {
    public static WebDriver driver;

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

    @FindBy(xpath="//input[@placeholder='\"Search by name...\"']")
    public WebElement searchBar;

    @FindBy(xpath="//div[text()='\"SG Bat\"]")
    public WebElement sgBatName;

    @FindBy(xpath="//div[text()='\"25500.00\"]")
    public WebElement sgBatPrice;
}

```

}

HerokuappTestCases :

```
package AutomationScripts ;
import Context.TestContext;
import ObjectManager.DriverManager;
import PageObjects.*;
import dataProvider.ConfigFileReader;
import dataProvider.ReadWriteExcel;
import extentReport.ExtentReport;
import org.apache.log4j.PropertyConfigurator;
import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.testng.ITestResult;
import org.testng.annotations.*;
import org.testng.asserts.SoftAssert;
import utils.Listener;
import utils.Logging;

import java.io.IOException;

@Listeners(Listener.class)
public class HerokuappTestCases {

    public static WebDriver driver;

    public static ExtentReport extentReport;

    TestContext testContext;
    ReadWriteExcel readWriteExcel;
    SoftAssert softAssert;
    public static LoginPage loginPage;
    public static EcommerceMenuPage ecommerceMenuPage;
    public static ElectronicsPage electronicsPage;
    public static KitchenItemsPage kitchenItemsPage;
    public static SportsPage sportsPage;

    @BeforeSuite
    public void setupSuite() throws IOException {
        driver= DriverManager.getDriver();
        driver.get(ConfigFileReader.getUrl());
        testContext=new TestContext();
        extentReport = new ExtentReport();
        readWriteExcel= new ReadWriteExcel();
        softAssert=new SoftAssert();
        loginPage= new LoginPage(driver);
        ecommerceMenuPage = new EcommerceMenuPage(driver);
        electronicsPage=new ElectronicsPage(driver);
        kitchenItemsPage= new KitchenItemsPage(driver);
        sportsPage=new SportsPage(driver);
        PropertyConfigurator.configure("src/main/resources/log4j.properties");
    }

    @AfterSuite
    public void afterSuite()
    {
        softAssert.assertAll();
        extentReport.flush();
    }
}
```

```
}
```

```
@BeforeMethod()  
public void startTest()  
{  
    Logging.info("starting the execution of test cases");  
}
```

```
@AfterMethod()  
public void CloseTest(ITestResult result) throws IOException {  
    Logging.info("Ending the test case Execution");  
    if(ITestResult.FAILURE==result.getStatus())  
    {  
        Logging.info("test case is failed");  
        extentReport.addScreenshot(driver);  
    }  
}
```

```
if(driver.findElement(By.xpath("//div[text()=\"Logout\"]")).size(>0)  
{  
    loginPage.logoutBtn.click();  
    Logging.info("clicked on logout button");  
}  
else  
{  
    Logging.info("Logout button is not displayed");  
}  
}
```

```
@Test(description = "TC-01:verifies the validation message when user enters  
blank username and password")  
public void verifyErrorMessage() throws IOException {  
    extentReport.createTest("TC-01:verifies the validation message when  
user enters blank username and password");  
    loginPage.loginLink.click();  
    Logging.info("user has clicked on login link ");  
    extentReport.info("user has clicked on login link");  
    loginPage.loginBtn.click();  
    Logging.info("user has clicked on login button");  
    extentReport.info("user has clicked on login button");
```

```
if(loginPage.errorMessage.isDisplayed())  
{  
    String actualErrorMsg = loginPage.errorMessage.getText();  
    String expectedErrorMsg="Username and Password are required!!";  
    softAssert.assertEquals(actualErrorMsg,expectedErrorMsg,"actual and  
expected error message is not same");  
    Logging.info("username and password are required error message is  
displayed");  
    extentReport.pass("username and password are required error message  
is displayed");  
    extentReport.addScreenshot(driver);  
    Logging.endTestCase();  
}
```

```
else  
{  
    Logging.info("username and password are required error message is  
not displayed");  
    extentReport.fail("username and password are required error message  
is not displayed");  
    extentReport.addScreenshot(driver);  
    Logging.endTestCase();  
}  
}
```

```

@Test(description = "validate the login functionality with valid username
and password")
public void verifyLoginFunctionality() throws IOException {
    XSSFSheet sheet = readWriteExcel.getSheet("Sheet2");
    for(int i=1;i<=sheet.getLastRowNum();i++)
    {
        extentReport.createTest("TC02-Validate the login functionality with
valid username and password");
        loginPage.loginLink.click();
        Logging.info("user has clicked on login link");
        extentReport.info("user has clicked on login link");
        String username=sheet.getRow(i).getCell(0).getStringCellValue();
        String password = sheet.getRow(i).getCell(1).getStringCellValue();
        loginPage.username.sendKeys(username);
        loginPage.password.sendKeys(password);
        Logging.info("user has entered username and password");
        extentReport.info("user has entered username and password");
        loginPage.loginBtn.click();
        Logging.info("user has clicked on login button");
        extentReport.info("user has clicked on login button");
        if(driver.findElements(By.xpath("//div[text()='Logout']")).size()>0)
        {
            Logging.info("Logout button is displayed");
            extentReport.info("Logout button is displayed");
            Logging.info("user logged in successfully");
            extentReport.pass("user logged in successfully");
            extentReport.addScreenshot(driver);
            loginPage.logoutBtn.click();
            Logging.endTestCase();
        }
        else
        {
            Logging.info("Logout button is not displayed");
            extentReport.info("Logout button is not displayed");
            Logging.info("user is not loggedin ");
            extentReport.fail("user is not loggedin");
            extentReport.addScreenshot(driver);
            Logging.endTestCase();
            throw new RuntimeException("Logout button is not displayed");
        }
    }
}
}

```

```

@Test(description = "verify the search functionality in all the categories")
public void searchFunctionality() throws IOException {
    XSSFSheet sheet = readWriteExcel.getSheet("Sheet1");
    for(int i=1;i<=sheet.getLastRowNum();i++)
    {
        extentReport.createTest("TC-03:verify the search functionality in
all the categories ");
        String category = sheet.getRow(i).getCell(0).getStringCellValue();
        switch (category)
        {
            case "Electronics":
                ecommerceMenuPage.electronicLink.click();
                Logging.info("User clicked on electronics category");
                extentReport.info("user clicked on electronics category");
                electronicsPage.searchBar.sendKeys(sheet.getRow(i).getCell(1).getStringCellValue());
                Logging.info("user searched the electronics category");
            default:
                // ... (other cases)
        }
    }
}

```

```

        extentReport.info("user searched the electronics
category");
        String actualproductname =
electronicsPage.s21NameText.getText();
        String expectedProductname =
sheet.getRow(i).getCell(1).getStringCellValue();
        String actualproductPrice =
electronicsPage.s21Price.getText();
        double expectedproductprice =
sheet.getRow(i).getCell(2).getNumericCellValue();

        double actualproductPrice1;

actualproductPrice1=Double.parseDouble(actualproductPrice);
//
expectedproductprice1=Double.parseDouble(expectedproductprice);
        System.out.println("actual product name is :"+
+actualproductname +"expected product name is:"+expectedProductname);
        if(actualproductname.equals(expectedProductname.trim())) {
            if (actualproductPrice1 == expectedproductprice) {
                Logging.info("actual and expected prices and
product names are equal");
                extentReport.info("actual and expected prices and
product names are equal");
                Logging.info("search is working for electronics
category");
                extentReport.pass("search is working for
electronics category");
                extentReport.addScreenshot(driver);
                Logging.endTestCase();
            } else {
                Logging.error("actual and expected product prices
are not equal");
                extentReport.info("actual and expected product
prices are not equal");
                extentReport.fail("actual and expected product
prices are not equal");
                extentReport.addScreenshot(driver);

Logging.endTestCase();
                throw new RuntimeException();
            }
        } else {
            Logging.error("actual and expected product name are
not equal");

extentReport.info("actual and expected product name are not equal");
            Logging.error("search is not working for electronics
category");
            extentReport.fail("search is not working for
electronics category");
            extentReport.addScreenshot(driver);
            Logging.endTestCase();
            throw new RuntimeException();
        }
        break;
    }
}
}
}

```

