

1.Problem statement:

Day 11 test case,

Description	Test Steps	Validation
Add a banner	1. Navigate onto admin panel -> Catalog -> Banners 2. Populate Banner name and Save 3. Attach a file and Save	1. Validate the presence of Banners header 2. Validate the error message 3.1. Validate the success message 3.2. Validate the presence of record in the admin panel table 3.3 Validate the presence of record in the DB table

2. code with comments:

BaseTest.java:

```
package com.ibm.test;
```

```
import java.io.FileInputStream;
```

```
import java.io.FileNotFoundException;
```

```
import java.io.IOException;
```

```
import java.lang.*;
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
```

```
import java.sql.Statement;
```

```
import java.util.HashMap;
```

```
import java.util.Properties;
```

```
import java.util.concurrent.TimeUnit;
```

```
import org.openqa.selenium.Alert;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.JavascriptExecutor;
```

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.Select;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.Assert;
import org.testng.Reporter;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.DataProvider;
import org.testng.annotations.Test;
```

```
import com.ibm.pages.UserPage;
import com.ibm.utilities.DBUtil;
import com.ibm.utilities.ExcelReader;
import com.ibm.utilities.ExcelUtil;
import com.ibm.utilities.PropertiesFileHandler;
```

```
public class BaseTest extends ExcelReader{
```

```
    WebDriverWait wait;
```

```
    WebDriver driver;
```

```
    @Test()
```

```
    public void testcase11() throws InterruptedException, IOException, SQLException{
```

```
        FileInputStream file = new FileInputStream("./TestData/data.properties");
```

```
        Properties prop = new Properties();
```

```
        prop.load(file);
```

```
        String url = prop.getProperty("url");
```

```
String username = prop.getProperty("user");
String password = prop.getProperty("password");

    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);
    Login login = new Login(driver, wait);
    driver.get(url);


    login.enterEmailAddress(username);
    login.enterPassword(password);
    login.clickOnLogin();


    WebElement catalogEle=driver.findElement(By.linkText("Catalog"));
    catalogEle.click();


    WebElement bannersEle=driver.findElement(By.linkText("Banners"));
    bannersEle.click();


    int expCount= DBUtil.countQuery("SELECT count(name) from as_banner");
    System.out.println("Count beofre adding banner : "+expCount);
    Thread.sleep(3000);


    WebElement newBannerEle=driver.findElement(By.cssSelector("i.fa.fa-plus"));
    newBannerEle.click();
```

```

WebElement bannerName=driver.findElement(By.name("name"));

bannerName.sendKeys("Test_Banner_Test");


WebElement codeEle=driver.findElement(By.xpath("//*[@id=\"page-
wrapper\"]/div/form/div[2]/div/div/div[2]/div[4]/span"));

codeEle.click();


String winHandleBefore = driver.getWindowHandle();


WebElement frame=driver.switchTo().activeElement();


frame.sendKeys("C:\\Users\\Public\\Pictures\\Sample Pictures\\Chrysanthemum.jpg");
//codeEle.sendKeys("C:/Users/Public/Pictures/Sample Pictures/Chrysanthemum.jpg");
Thread.sleep(3000);

driver.switchTo().window(winHandleBefore);


WebElement saveEle=driver.findElement(By.cssSelector("i.fa.fa-save"));

saveEle.click();

Thread.sleep(3000);


String exp="Test_Banner_Test";

String act= DBUtil.singleDataQuery("SELECT name from as_banner where
name=\"Test_Banner_Test\"");


//validation of banner header

Assert.assertEquals(act,exp);

Reporter.log("Assertion on banner added present in database");


//validation in database

```

```
int actCount=DBUtil.countQuery("SELECT count(name) from as_banner");  
System.out.println("COunt after adding banner"+actCount);
```

```
Assert.assertEquals(actCount,expCount+1);  
Reporter.log("Assertion on banner added present in database");
```

```
Thread.sleep(3000);
```

```
}
```

```
}
```

Login.java:

```
package com.ibm.test;
```

```
import java.io.FileInputStream;
```

```
import java.io.FileNotFoundException;
```

```
import java.io.IOException;
```

```
import java.util.HashMap;
```

```
import java.util.Properties;
```

```
import java.util.concurrent.TimeUnit;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebDriver;
```

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

```
import org.openqa.selenium.chrome.ChromeDriver;
```

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

```
import org.openqa.selenium.support.PageFactory;
```

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

```
import org.testng.Assert;
```

```
import org.testng.annotations.BeforeSuite;
```

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

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

```
import com.ibm.utilities.PropertiesFileHandler;
```

```
public class Login extends BaseTest{
```

```
    @FindBy(name="email")
```

```
    WebElement emailEle;
```

```
    @FindBy(name="pword")
```

```
    WebElement passEle;
```

```
    @FindBy(xpath="/html/body/div/div/div/div[2]/form/button")
```

```
    WebElement loginEle;
```

```
    WebDriverWait wait;
```

```
    WebDriver driver;
```

```
    public Login(WebDriver driver,WebDriverWait wait) {
```

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

```
        this.driver=driver;
```

```
        this.wait=wait;
```

```
    }
```

```
    public void enterEmailAddress(String user)
```

```
    {
```

```
        emailEle.sendKeys(user);
```

```
    }
```

```
    public void enterPassword(String password)
```

```

        {
            passEle.sendKeys(password);
        }
        public void clickOnLogin()
        {
            loginEle.click();
        }
    }
}

```

ExceUtil.java:

```

package com.ibm.utilities;

//We will understand the construction of this page
import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;

import com.ibm.test.BaseTest;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;

public class ExcelUtil{

    public static Object[][] DataTable(String Workbook, String Sheet) throws FileNotFoundException,
    IOException{

        XSSFWorkbook wb = new XSSFWorkbook(new FileInputStream(Workbook));

        XSSFSheet sh = wb.getSheet(Sheet);

        Object[][] x = new Object[sh.getPhysicalNumberOfRows()-
1][sh.getRow(0).getPhysicalNumberOfCells()];

        for(int i=1;i<sh.getPhysicalNumberOfRows();i++)

```

```

{
    for(int j=0;j<sh.getRow(0).getPhysicalNumberOfCells();j++)
    {
        x[i-1][j] = sh.getRow(i).getCell(j).getStringCellValue();
    }
}
return x;
}

```

public static Object[][] DataTable(String Workbook, String Sheet, int rows) throws  
FileNotFoundException, IOException {

```

    XSSFWorkbook wb = new XSSFWorkbook(new FileInputStream(Workbook));
    XSSFSheet sh = wb.getSheet(Sheet);
    Object[][] x = new Object[rows][sh.getRow(0).getPhysicalNumberOfCells()];
    for(int i=1;i<rows+1;i++)
    {
        for(int j=0;j<sh.getRow(0).getPhysicalNumberOfCells();j++)
        {
            x[i-1][j] = sh.getRow(i).getCell(j).getStringCellValue();
        }
    }
    return x;
}

```

public static Object[][] DataTable(String Workbook, String Sheet, int rows, int col) throws  
FileNotFoundException, IOException{

```

    XSSFWorkbook wb = new XSSFWorkbook(new FileInputStream(Workbook));
    XSSFSheet sh = wb.getSheet(Sheet);
    Object[][] x = new Object[rows][col];

```



```

for(int i=1;i<rows+1;i++)
{
    for(int j=0;j<col;j++)
    {
        x[i-1][j] = sh.getRow(i).getCell(j).getStringCellValue();
    }
}
return x;
}
}

```

Data.properties file

```

url=https://atozgroceries.com/admin
user=demo@atozgroceries.com
password=456789
url1=https://atozgroceries.com
user1=7675058941
password1=456789

```

3. Explanation of the code: DBUtil class has functions for DB validations which is imported in basetest.java prg. Getting login details from data.properties file. ExcelUtil class can also be used for creating banner header but since only one value is needed in this scenario used only direct send keys to focus on DB validations.

4. Result flow in detail:

DBUtil class has functions for DB validations which is imported in basetest.java prg. Getting login details from data.properties file. ExcelUtil class can also be used for creating banner header but since only one value is needed in this scenario used only direct send keys to focus on DB validations.

5. Output screenshot:

