

1.Problem statement:

Description	Test Steps	Validation
Modify a Notification	1. Navigate onto admin panel -> Marketing -> Push Notification 2. Modify the Notification Name and Save 3. Populate the other mandatory fields, Attach file and Save	1. Validate the presence of modified Push Notification header. 2. Validate the error message. 3.1. Validate the success message. 3.2. Validate the presence of modified record in the admin panel table. 3.3 Validate the presence of modified record in the DB table

Note: Since when we click on edit from action drop down of any pus notification from table it is going to different page I have added a new Notification to check this scenario.

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.FindingBy;
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 testcase12() 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 marketingEle=driver.findElement(By.linkText("Marketing"));
    marketingEle.click();


    WebElement pushNotificationEle=driver.findElement(By.linkText("Push Notification"));
    pushNotificationEle.click();


    Thread.sleep(3000);


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

```
WebElement nameEle=driver.findElement(By.name("name"));
nameEle.sendKeys("Test_Syeda_TC12");
```

```
WebElement messageEle=driver.findElement(By.name("message"));
messageEle.sendKeys("Message for the newly added notification");
```

```
WebElement imageEle=driver.findElement(By.xpath("//*[@id=\"page-  
wrapper\"]/div/form/div[2]/div/div/div[2]/div[3]/span"));
imageEle.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(2000);
```

```
//Assertion in the admin page
```

```
String successMsg=login.AddWeightClassSuccMsg().trim();
```

```
Assert.assertEquals(successMsg,"Success: You have successfully sent push notification  
to your app!");
```

```
System.out.println("Push Notification added success message in the admin page");
```

```
Thread.sleep(2000);
```

```
String exp="Test_Syeda_TC12";
```

```
String act= DBUtil.singleDataQuery("SELECT name from as_pushnotification where  
name=\"Test_Syeda_TC12\"");
```

```
//validation of database
```

```
Assert.assertEquals(act,exp);
```

```
Reporter.log("Assertion on phone number change present in database");
```

```
WebElement logOutEle=driver.findElement(By.cssSelector("i.fa.fa-sign-out"));
```

```
logOutEle.click();
```

```
}
```

```
}
```

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;

    @FindBy(xpath="//*[@class='alert alert-success alert-dismissible']")
    WebElement addWeightSuccMsg;

    WebDriverWait wait;

    WebDriver driver;
```

```

public Login(WebDriver driver,WebDriverWait wait) {
    PageFactory.initElements(driver, this);
    this.driver=driver;
    this.wait=wait;
}

public String AddWeightClassSuccMsg()
{
    String succMsg=addWeightSuccMsg.getText().trim().replace("×", "");
    //System.out.println(succMsg);
    return succMsg;
}

public void enterEmailAddress(String user)
{
    emailEle.sendKeys(user);
}

public void enterPassword(String password)
{
    passEle.sendKeys(password);
}

public void clickOnLogin()
{
    loginEle.click();
}

}

```

DBUtil.java:

```
package com.ibm.utilities;
```

```

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;

import java.util.List;


public class DBUtil {

    public static String singleDataQuery(String query) throws SQLException {

        Connection
c=DriverManager.getConnection("jdbc:mysql://foodsonfinger.com:3306/foodsonfinger_atozgroceries","
foodsonfinger_atoz","welcome@123");

        Statement s=c.createStatement();

        String text=null;

        //SELECT name from as_category where name="Fruits" - if data exists value else null.

        //SELECT tab_id,name FROM as_tabs ORDER BY tab_id DESC

        //SELECT * from as_coupons


        ResultSet rs=s.executeQuery(query);

        while(rs.next()) {

            text=rs.getString(1);//validating name alone

            //System.out.println("database check for added
element:"+rs.getString("name"));

        }

        return text;

        //Assert.assertEquals("Grains", rs.getString("name"));

    }

    public static Object[] lineDataQuery(String query, int[] cols) throws SQLException {

```



```

        Object[] data=new Object[cols.length];

        Connection
c=DriverManager.getConnection("jdbc:mysql://foodsonfinger.com:3306/foodsonfinger_atozgroceries",

        "foodsonfinger_atoz",

        "welcome@123");

```

```

        Statement s=c.createStatement();

        //SELECT * from as_banner where name="Pavithra"

        ResultSet rs=s.executeQuery(query);

        int i=0;

        if(rs.next()){

            for(int col:cols)

            {

                data[i]=rs.getObject(col);

                i++;

            }

        }

        return data;

    }

```

```

    public static int countQuery(String query) throws SQLException {

        int count=0;

        Connection

c=DriverManager.getConnection("jdbc:mysql://foodsonfinger.com:3306/foodsonfinger_atozgroceries","

foodsonfinger_atoz","welcome@123");

        Statement s=c.createStatement();

        //select count(name) from as_coupons

        ResultSet rs=s.executeQuery(query);

```

```

        while(rs.next()) {
            count=rs.getInt(1);
        }
        return count;

        //Assert.assertEquals("Grains", rs.getString("name"));
    }
    /*
    public ArrayList<ArrayList<Object>> tableDataQuery(String query) throws SQLException{
        Connection
        c=DriverManager.getConnection("jdbc:mysql://foodsonfinger.com:3306/foodsonfinger_atozgroceries","
        foodsonfinger_atoz","welcome@123");
        Statement s=c.createStatement();
        ArrayList<ArrayList<Object>> data=new ArrayList<ArrayList<Object>>();
        String[] queries=query.split(",");
        ResultSet rs=s.executeQuery(query);
        ArrayList<Object> temp = null;
        while(rs.next()) {
            //data.add(rs.getString(1), rs.getString(2), rs.getString(3));
            for(int i=0;i<queries.length;i++)
            {
                temp.add(rs.getObject(i));
            }
            data.add(temp);
            temp.clear();
        }
        return data;
        //Assert.assertEquals("Grains", rs.getString("name"));
    }

```

```
*/
}
```

Data.properties:

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

3. Explanation of the code: Added the notification related code in BaseTest.java and used the Login.java where login code of admin page is there. DBUtil.java contains DB validation related methods which are implemented in Basetest.java program to test

4. Result flow in detail: Added the notification related code in BaseTest.java and used the Login.java where login code of admin page is there. DBUtil.java contains DB validation related methods which are implemented in Basetest.java program to test

5. Output screenshot:

```

Selenium Projects - SeleniumFramework/src/com/btm/Test/BaseTest.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer:
  DataDrivenFramework
  HybridProject
  SeleniumConcepts
  SeleniumFramework
    JRE System Library [jdk1.8.0_191]
    src
      com.ibm.pages
        AdminPage.java
        UserPage.java
      com.ibm.test
        BaseTest.java
        Login.java
        TestCases.java
      com.ibm.utilities
        DB.java
        DBUtil.java
        ExcelReader.java
        ExcelUtil.java
        JDBC_Connection.java
        PropertiesFileHandler.java
  Referenced Libraries
  drivers
  jars
  test-output
  TestData

BaseTest.java:
92 Thread.sleep(3000);
93 driver.switchTo().window(winHandleBefore);
94
95 WebElement saveEle=driver.findElement(By.cssSelector("i.fa.fa-save"));
96 saveEle.click();
97 Thread.sleep(3000);
98
99 //Assertion in the admin page
100 String successMsg=login.AddWeightClassSuccMsg().trim();
101 Assert.assertEquals(successMsg,"Success: You have successfully sent push notificati
102
103 System.out.println("Push Notification added success message in the admin page");
104
105
106 Thread.sleep(3000);
107 String exp="Test_Syeda_TC12";
108 String act= DBUtil.singleDataQuery("SELECT name from as_pushnotification where name=
109
110 //validation of database
111 Assert.assertEquals(act,exp);
112 Reporter.log("Assertion on phone number change present in database");
113 WebElement logOutEle=driver.findElement(By.cssSelector("i.fa.fa-sign-out"));
114 logOutEle.click();
115
116
117 }

Console:
<terminated> BaseTest [TestNG] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (Jan 4, 2019, 10:05:03 PM)
[RemoteTestNG] detected TestNG version 6.14.3
Starting ChromeDriver 2.44.609538 (b6555c5a60b0b544917107a59d4153d4bf78e1b90) on port 25529
Only local connections are allowed.
Jan 04, 2019 10:05:09 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Push Notification added success message in the admin page
PASSED: testCase12

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

```