2.1 TC010

Add Notification	1. Check for the count of push notification table records in DB 2. Navigate onto push notification under Marketing tab 3. Add a new record	Validate the presence of newly added record and the increase in the table record count by 1

2.2 Coding

Admin Page

```
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();

		}

}
```

MarketingPushNotificationPage

```
package com.ibm.pages;

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

public class MarketingPushNotificationPage {
  @FindBy(how=How.XPATH,using="(//a[@class='material-ripple'])[13]")WebElement marketing;
```

```
 @FindBy(how=How.XPATH,using="(//a[@class='material-ripple'])[16]")WebElement
pushNotification;

 @FindBy(how=How.XPATH,using="//a[@class=\"btn btn-primary\"]")WebElement add;

 @FindBy(how=How.NAME,using="name")WebElement notificationName;

 @FindBy(how=How.XPATH,using="//*[@name='message']")WebElement notificationMsg;

 @FindBy(how=How.XPATH,using="//button[@class=\"btn btn-primary\"]")WebElement save;


 By validation=By.xpath("//input[@name='name']");


        WebDriverWait wait;

        WebDriver driver;


        public MarketingPushNotificationPage(WebDriver driver,WebDriverWait wait) {

                PageFactory.initElements(driver, this);

                this.driver=driver;

                this.wait=wait;

        }

        public void clickMarketing()

        {

                marketing.click();

        }

        public void clickPushNotification()

        {

                pushNotification.click();

        }

        public void clickAddButton()

        {

                add.click();

        }

        public void sendNotificationName(String name)

        {
                notificationName.sendKeys(name);
        }
        public void sendNotificationMsg(String msg)
        {
                notificationMsg.sendKeys(msg);
        }
        public void clickSave()
        {
                save.click();
        }
        public String getPagetitleForNegativeValidation()
        {
                wait.until(ExpectedConditions.presenceOfElementLocated(validation));

                return driver.getTitle();
        }

}
```

DBClass.java

```
package com.ibm.utilities;

import java.sql.SQLException;

public class DBClass extends DB {

        public String query;
        public int count;
        public String pushNotificationQuery;
        public void TC009() throws SQLException
        {
                query = DBClass.singleDataQuery("SELECT * FROM as_customer WHERE
name=\"PavithraTSB\"");
                System.out.println(query);
        }
        public void TC10PushNotificationCount() throws SQLException
        {
          count = DBClass.countQuery("SELECT COUNT(notification_id) FROM
as_pushnotification");
          System.out.println(count);
```

```
	}
	public void TC10PushNotificationRecordValidation() throws SQLException
	{
		pushNotificationQuery=DBClass.singleDataQuery("SELECT MESSAGE from 
as_pushnotification WHERE name=\"Test_Pavithra\"");
		System.out.println(pushNotificationQuery);
	}
}
```

TC010

```
package com.ibm.test;

import java.io.IOException;
import java.sql.SQLException;
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.ui.WebDriverWait;
import org.testng.Assert;
import org.testng.Reporter;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.Test;

import com.ibm.pages.AdminPage;
import com.ibm.pages.MarketingPushNotificationPage;
import com.ibm.utilities.DBClass;
import com.ibm.utilities.PropertiesFileHandler;

public class TC010 {

	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 = "NewPushNotificationValidation")
       public void testCase10() throws IOException, InterruptedException,
SQLException {

                         String url = data.get("url");
                                 String userName = data.get("uname");
                                 String password = data.get("pwd");
                                 String name=data.get("pushNotificationName");
                                 String
message=data.get("pushNotificaionMessage");
                                 driver.get(url);

                                 DBClass dbc=new DBClass();
                                 System.out.print("Count before adding new record:
");
                                 dbc.TC10PushNotificationCount();


                                 AdminPage admin = new AdminPage(driver, wait);
                                 admin.enterEmailAddress(userName);
                                 admin.enterPassword(password);
                                 admin.clickOnLogin();

                                 MarketingPushNotificationPage mpnp=new
MarketingPushNotificationPage(driver, wait);
                                 mpnp.clickMarketing();
                                 mpnp.clickPushNotification();
                                 mpnp.clickAddButton();
                                 mpnp.sendNotificationName(name);
                                 mpnp.sendNotificationMsg(message);
                                 mpnp.clickSave();

                                 System.out.print("Count after adding new record
:");
                                 dbc.TC10PushNotificationCount();
                                 System.out.print("Retreiving the message to
ensure that record has been added :");
                                 dbc.TC10PushNotificationRecordValidation();


       Assert.assertEquals(message,dbc.pushNotificationQuery);
                                 Reporter.log("New Record is added in DB");



}
}
```

TestNg.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.TC010"/>
    </classes>
  </test> <!-- Test -->
</suite> <!-- Suite -->
```

2.3 Explanation

1.Created a AdminPage, MarketingPushNotificationPage, DBClass using Page object model where implemented Page factory concept as well. 2. AdminLoginPage implemented the methods like uname ,pwd and login

3. MarketingPushNotificationPage implemented adding a new record.

4.Created DBClassPage to check the user has added in the DB and also checking the count.

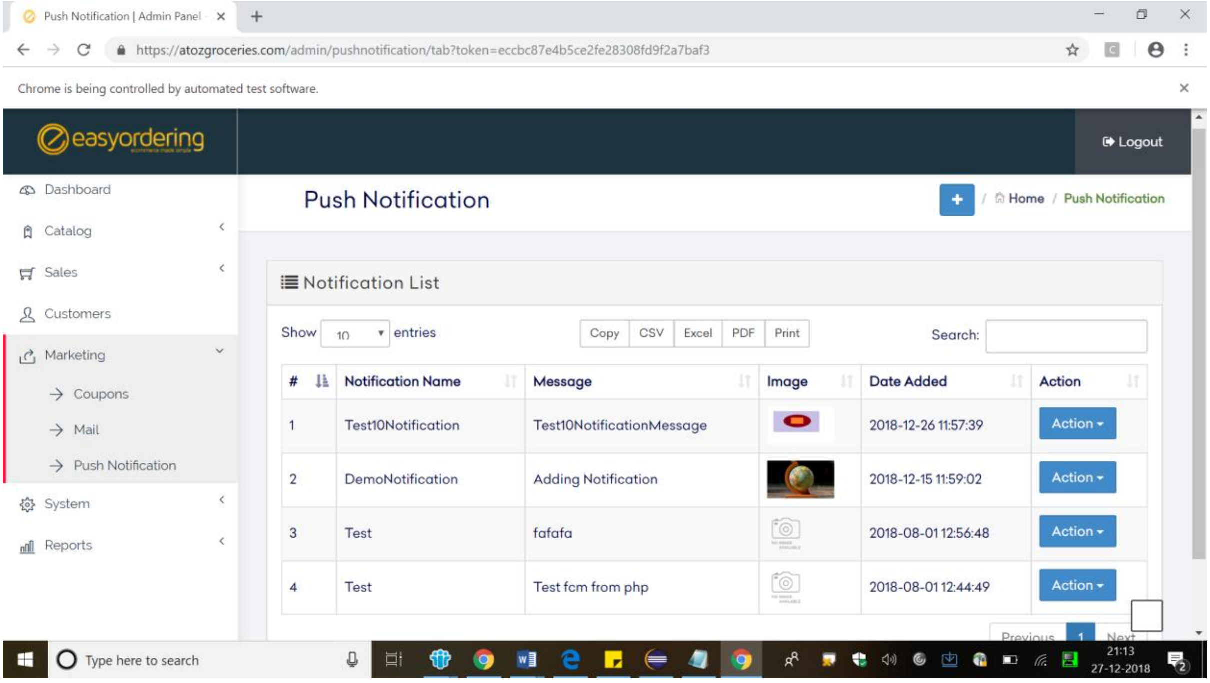
5.Asserting the value to ensure that is added successfully.

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 TC010.java file where implementing @Test.

8.Converting the project into testng.xml to execute all the codes at one run.

2.4 Output

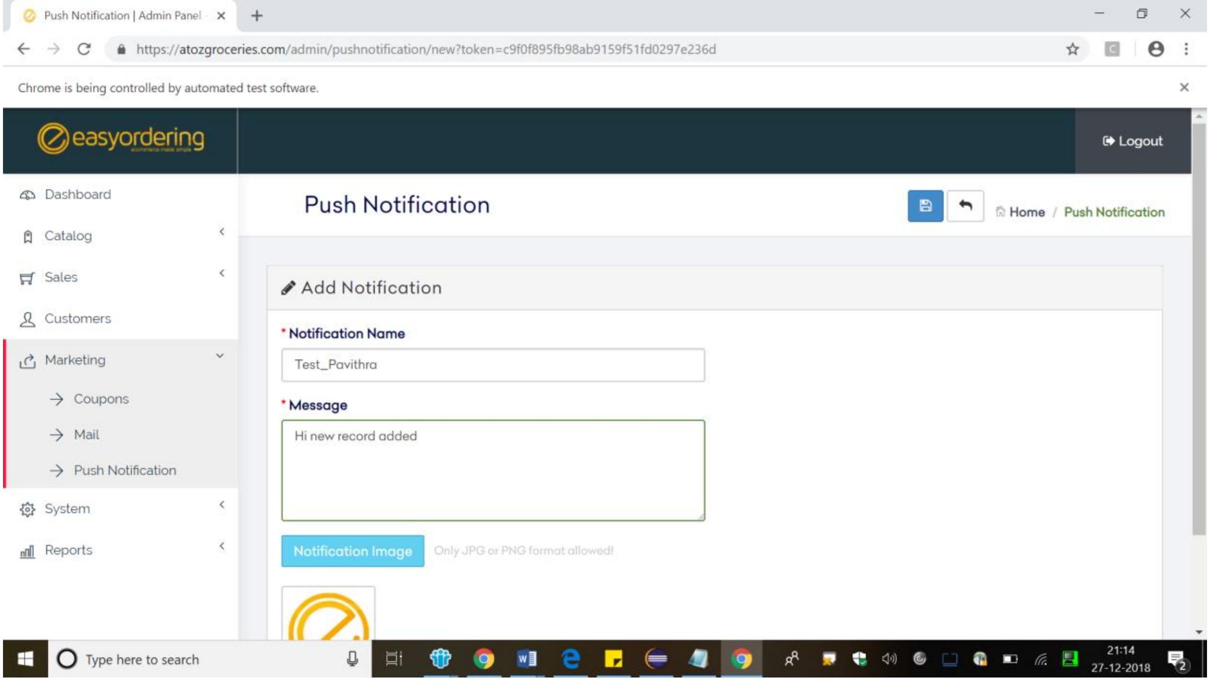


Push Notification

Notification List

Show 10 entries

#	Notification Name	Message	Image	Date Added	Action
1	Test10Notification	Test10NotificationMessage		2018-12-26 11:57:39	Action ▾
2	DemoNotification	Adding Notification		2018-12-15 11:59:02	Action ▾
3	Test	fafafa		2018-08-01 12:56:48	Action ▾
4	Test	Test fcm from php		2018-08-01 12:44:49	Action ▾



Push Notification | Admin Panel
https://atozgroceries.com/admin/pushnotification/new?token=c9f0f895fb98ab9159f51fd0297e236d
Chrome is being controlled by automated test software.
easyordering
Logout
Dashboard
Catalog
Sales
Customers
Marketing
Coupons
Mail
Push Notification
System
Reports
Home / Push Notification
Type here to search
21:14
27-12-2018

Push Notification

Add Notification

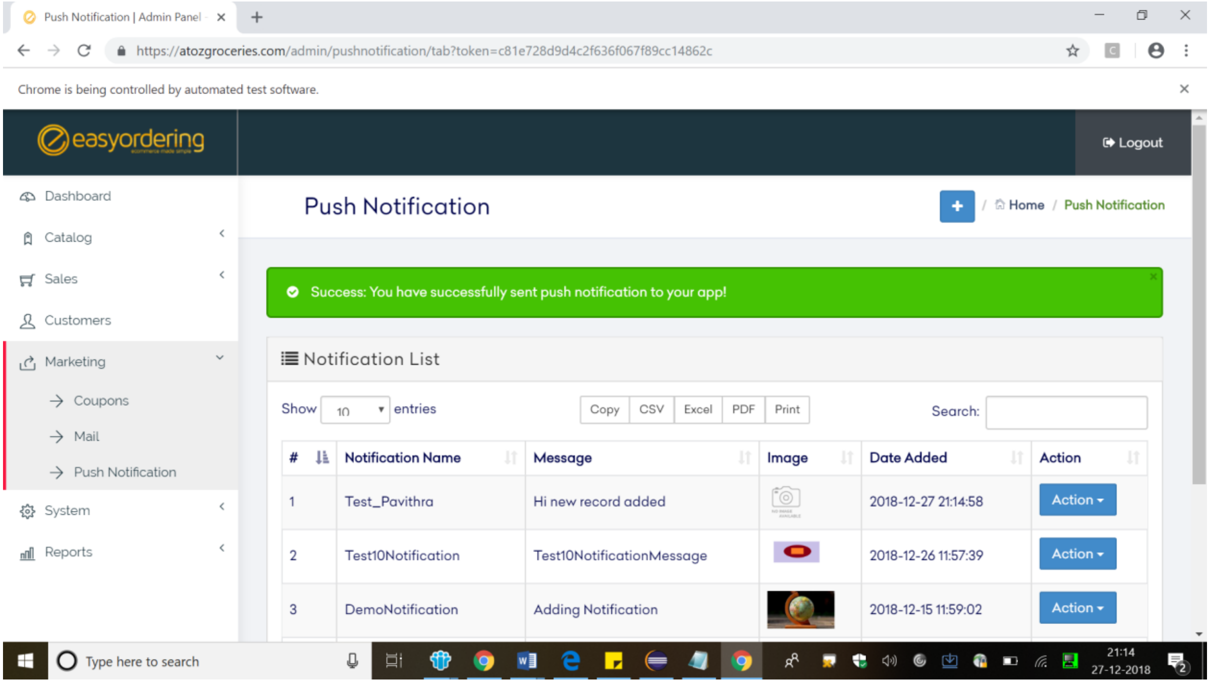
* Notification Name

Test_Pavithra

* Message

Hi new record added

Notification Image Only JPG or PNG format allowed!



Push Notification | Admin Panel
https://atozgroceries.com/admin/pushnotification/tab?token=c81e728d9d4c2f636f067f89cc14862c
Chrome is being controlled by automated test software.
easyordering
Logout
Dashboard
Catalog
Sales
Customers
Marketing
Coupons
Mail
Push Notification
System
Reports
Home / Push Notification
Type here to search
21:14
27-12-2018

Push Notification

Success: You have successfully sent push notification to your app!

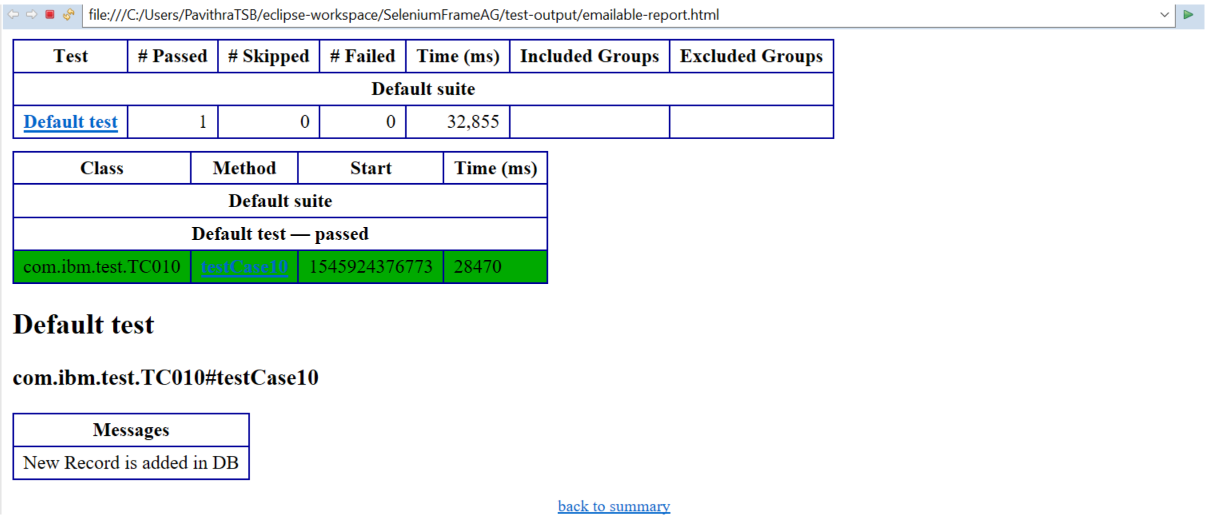
Notification List

Show 10 entries Copy CSV Excel PDF Print Search:

#	Notification Name	Message	Image	Date Added	Action
1	Test_Pavithra	Hi new record added		2018-12-27 21:14:58	Action
2	Test10Notification	Test10NotificationMessage		2018-12-26 11:57:39	Action
3	DemoNotification	Adding Notification		2018-12-15 11:59:02	Action

```
[RemoteTestNG] detected TestNG version 6.14.2
Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on
port 19202
Only local connections are allowed.
Dec 27, 2018 9:03:45 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Count before adding new record: 4
Count after adding new record :5
Retreiving the message to ensure that record has been added :Hi new record added

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



file:///C:/Users/PavithraTSB/eclipse-workspace/SeleniumFrameAG/test-output/emailable-report.html

Test	# Passed	# Skipped	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite						
Default test	1	0	0	32,855		

Class	Method	Start	Time (ms)
Default suite			
Default test — passed			
com.ibm.test.TC010	testCase10	1545924376773	28470

Default test

com.ibm.test.TC010#testCase10

Messages
New Record is added in DB

back to summary