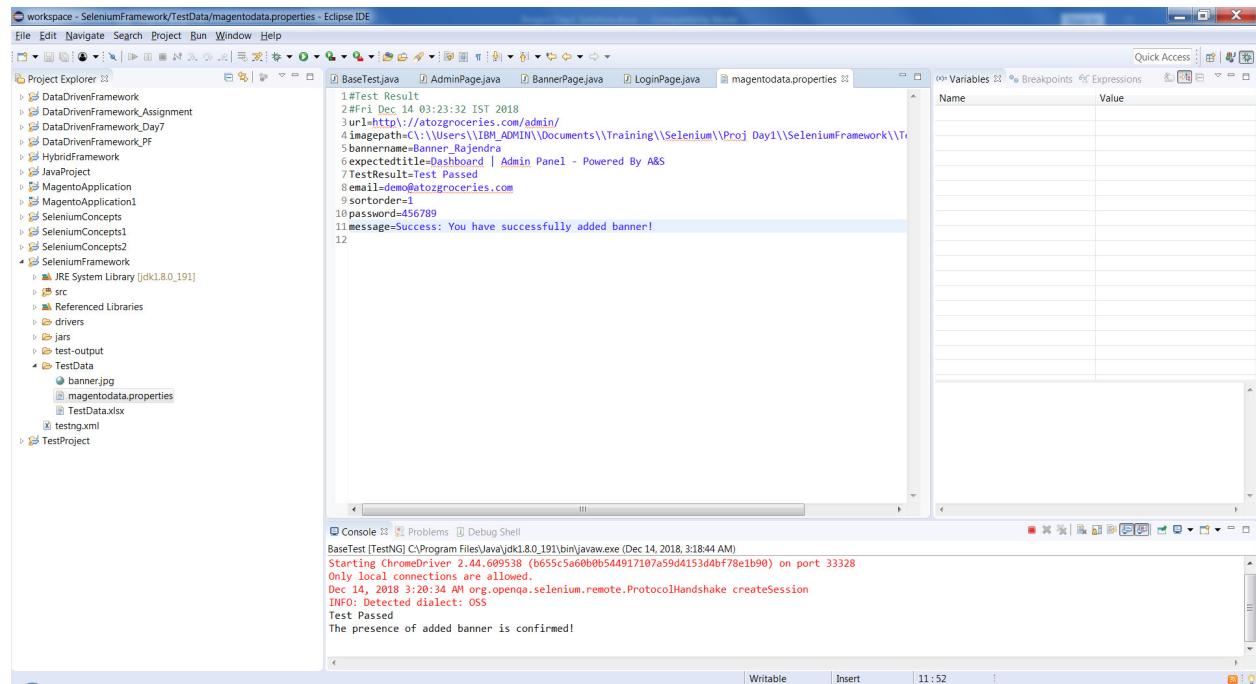


Test Cases	Process	Steps To Execute	Expected Results
TC01	Add a new banner	1. Login to admin portal 2. Add new banner 3. Go to list all category option under show entries	Validate the presence of the added banner

Solution:

Created following java files as below:

1. BaseTest.java > All methods are called from this class using TestNG
2. LoginPage.java > Contains the login method
3. Admin.java > Contains method to validate the Title page after successful login and logout method.
4. Banner.java > Contains method to add a new banner and to validate the presence of the added banner.
5. Test Data > *.properties file and .jpg file which is required to add as image for a banner.



The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure with several Java packages like DataDrivenFramework, AdminPageJava, BannerPageJava, LoginPageJava, and magentodata.properties.
- Code Editor:** Displays the content of the `magentodata.properties` file. The file contains the following properties:


```

#Test Result
#Fri Dec 14 03:23:32 IST 2018
url=http://atogroceries.com/admin/
imagepath=C:\\Users\\IBM_ADMIN\\Documents\\Training\\Selenium\\Proj Day1\\SeleniumFramework\\TestData\\Banner
bannername=Banner_Rajendra
categorytitle=Dashboard | Admin Panel - Powered By A&S
TestResult=Test Passed
emailid=demo@atogroceries.com
sortorder=1
password=456789
message=Success: You have successfully added banner!
      
```
- Console:** Shows the output of the test execution. It includes the command run, the Java executable path, the browser driver path, session creation details, and the test result message: "Test Passed".

workspace - SeleniumFramework/src/com/ibm/test/BaseTestJava - Eclipse IDE

```

1 package com.ibm.test;
2
3 import java.io.IOException;
4
5 public class BaseTest {
6
7     @Test
8     public void login() throws IOException, InterruptedException {
9
10         String file = "./TestData/magentodata.properties";
11
12         PropertiesFileHandler propFileHandler = new PropertiesFileHandler();
13         HashMap<String, String> data = propFileHandler.getPropertiesAsMap(file);
14
15         String url = data.get("url");
16         String email = data.get("email");
17         String password = data.get("password");
18         String expectedTitle = data.get("expectedtitle");
19
20         System.setProperty("webdriver.chrome.driver", "./drivers/chromedriver.exe");
21         WebDriver driver = new ChromeDriver();
22         WebDriverWait wait = new WebDriverWait(driver, 60);
23         driver.manage().window().maximize();
24         driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
25         driver.get(url);
26
27         LoginPage login = new LoginPage(driver);
28         login.enterEmailAddress(email);
29         login.enterPassword(password);
30         login.clickOnLogin();
31
32         AdminPage aapage = new AdminPage(driver, wait);
33
34     }
35
36 }
37
38 AdminPage aapage = new AdminPage(driver, wait);
39
40
41
42

```

Console Problems Debug Shell Results of running class BaseTest
No consoles to display at this time.

workspace - SeleniumFramework/src/com/ibm/test/BaseTestJava - Eclipse IDE

```

1 package com.ibm.test;
2
3 import java.io.IOException;
4
5 public class BaseTest {
6
7     @Test
8     public void login() throws IOException, InterruptedException {
9
10         String file = "./TestData/magentodata.properties";
11
12         PropertiesFileHandler propFileHandler = new PropertiesFileHandler();
13         HashMap<String, String> data = propFileHandler.getPropertiesAsMap(file);
14
15         String url = data.get("url");
16         String email = data.get("email");
17         String password = data.get("password");
18         String expectedTitle = data.get("expectedtitle");
19
20         System.setProperty("webdriver.chrome.driver", "./drivers/chromedriver.exe");
21         WebDriver driver = new ChromeDriver();
22         WebDriverWait wait = new WebDriverWait(driver, 60);
23         driver.manage().window().maximize();
24         driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
25         driver.get(url);
26
27         LoginPage login = new LoginPage(driver);
28         login.enterEmailAddress(email);
29         login.enterPassword(password);
30         login.clickOnLogin();
31
32         AdminPage aapage = new AdminPage(driver, wait);
33
34     }
35
36 }
37
38 AdminPage aapage = new AdminPage(driver, wait);
39
40
41
42

```

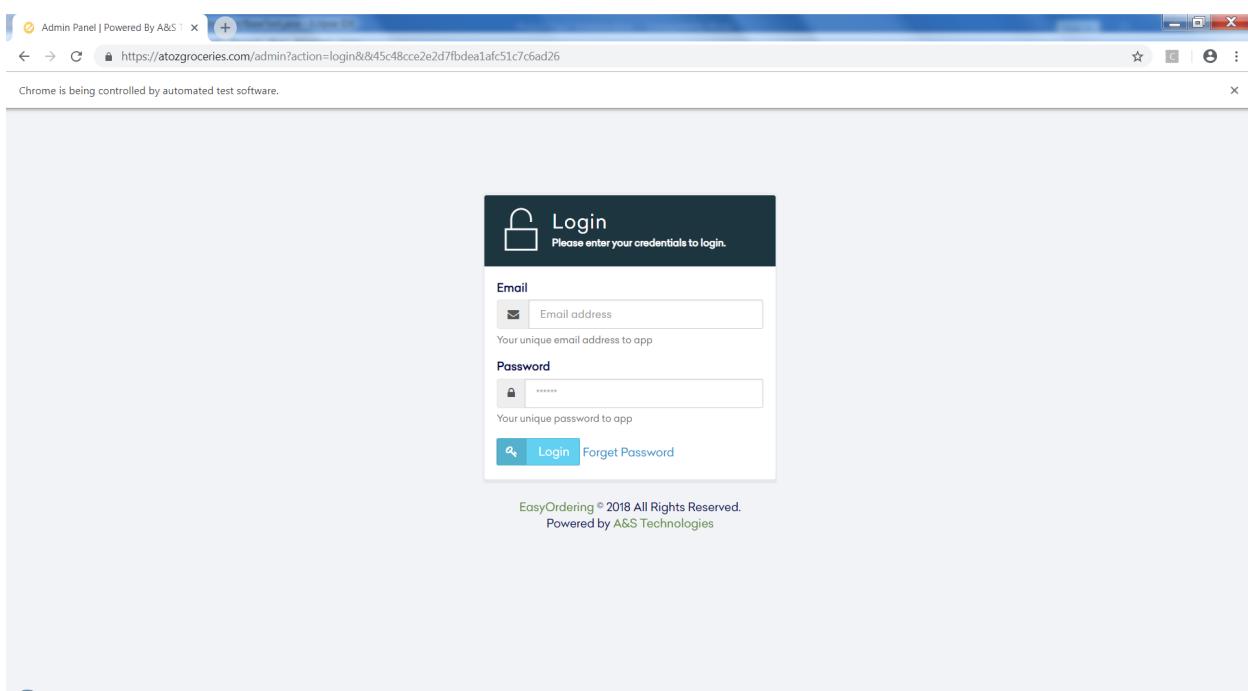
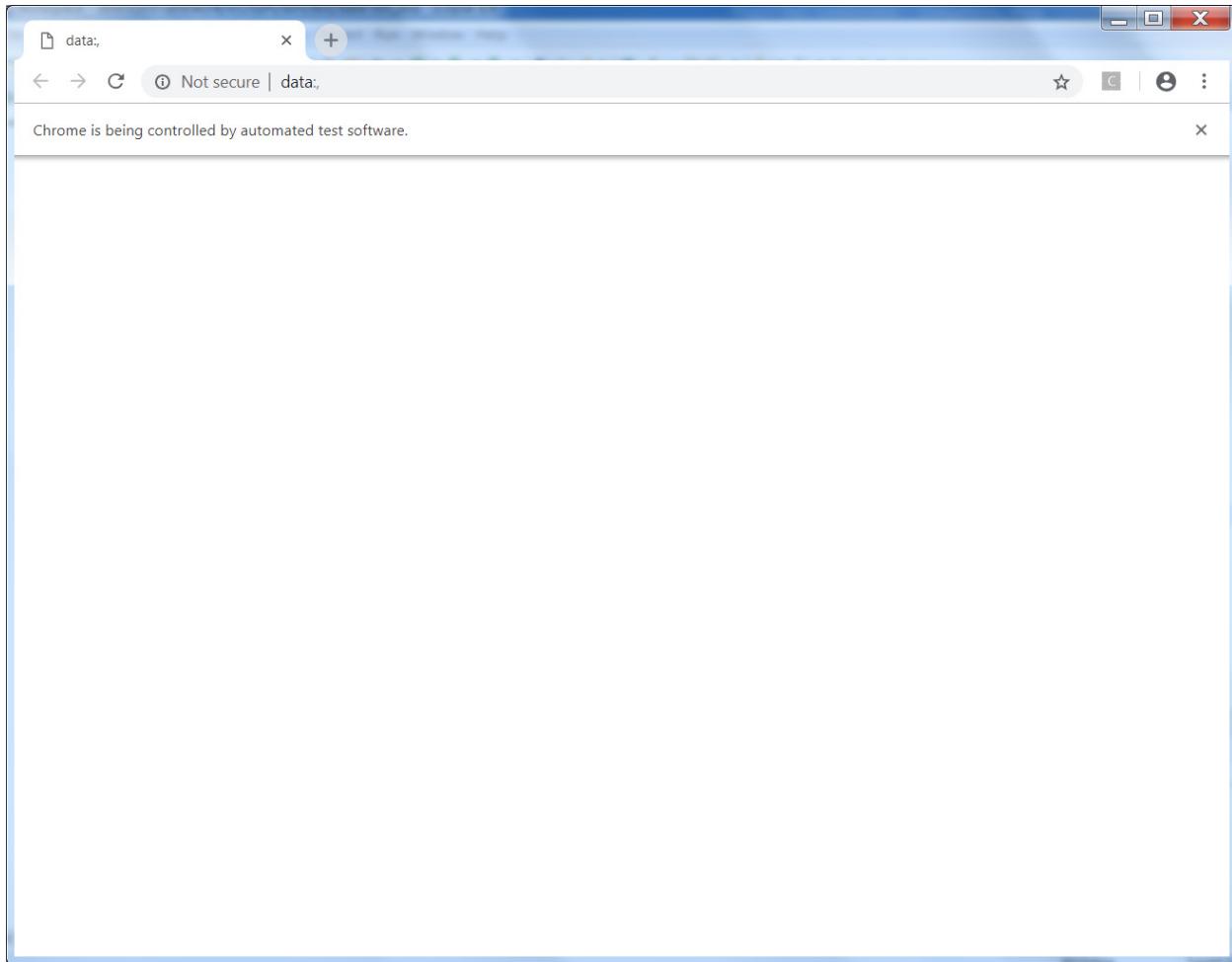
Context menu open over the code, showing options like Undo, Revert File, Save, Open Declaration, etc. A tooltip "1 TestNG Test" is visible near the bottom right of the menu.

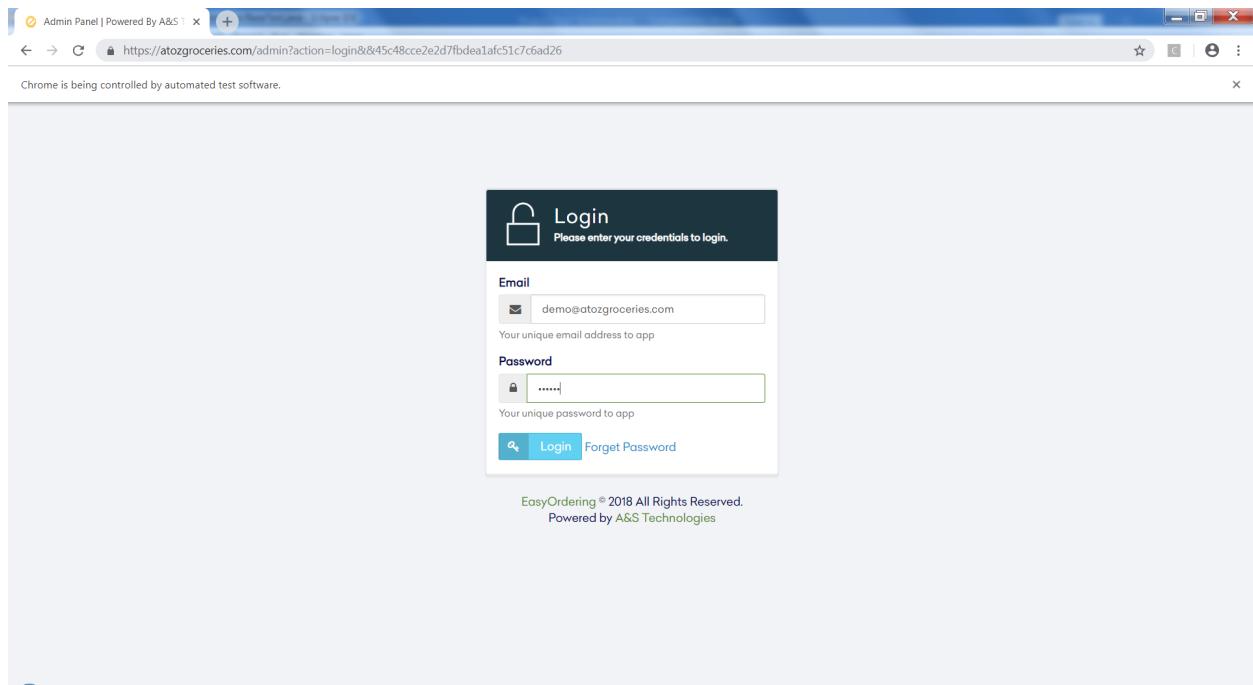
The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure with `BaseTest [TestNG]` as the active file.
- Code Editor:** Displays the `BaseTest.java` file content, which includes imports for `java.io.IOException`, `com.ibm.test`, and `org.testng.remote.RemoteTestNG`. The `login()` method uses `FileInputStream` to read properties from `agentntodata.properties` and performs assertions on the title and URL of the browser window.
- Variables, Breakpoints, and Expressions:** Toolbars on the right side of the editor showing variable values, breakpoints, and expressions.
- Console:** Shows the output of the test execution, indicating the version of TestNG detected.

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the 'BaseTest [TESTNG]' project.
- Code Editor:** Displays the 'BaseTest.java' file content, which includes imports for java.io.IOException, junit.framework.TestCase, and org.testng.annotations.Test. The 'login()' method reads properties from 'magentodata.properties' and uses a PropertiesFileHandler to get properties as a map. It then sets up WebDriver parameters, creates a LoginPage object, and performs login operations.
- Variables View:** Shows the state of variables during the test execution. It includes fields like file (magentodata.properties), data (HashMap<String, String>), url, email, password, expectedTitle, and driver.
- Console View:** Displays the output of the test execution, including the detection of TestNG version 6.14.3, starting of ChromeDriver, and the creation of a session with the OpenQA.Selenium.Remote.ProtocolHandshake dialect.





The screenshot shows a web browser window with the title "Dashboard | Admin Panel - Pow...". The URL in the address bar is <https://atozgroceries.com/admin/dashboard?token=e4da3b7fbce2345d7772b0674a318d5>. A message at the top states "Chrome is being controlled by automated test software." The main content includes a header with the "easyordering" logo and a "Logout" link. On the left is a sidebar with links: Dashboard, Catalog, Sales, Customers, Marketing, System, and Reports. The main area is titled "Dashboard" and features four cards: "Total Orders" (1), "Total Sales" (₹1,425.00), "Total Customers" (0), and "Total Products" (224). Below this is a section titled "Latest Orders" with a table:

#	Order ID	Customer	Status	Total	Date Added	Action
1	#1		Pending	₹1,425.00	2018-12-10	

SeleniumFramework/src/com/lbm/test/BaseTestJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer BaseTest.java AdminPage.java BannerPage.java LoginPage.java
Variables Breakpoints Expressions
Name Value
getWindowTitle() returned Dashboard | Admin Panel - Power...
this BaseTest (id=30)
file ./TestData/magentodata.properties
propfileHandler PropertiesfileHandler (id=59)
data HashMap<KV> (id=60)
url "http://atozgroceries.com/admin/"...
email demo@atozgroceries.com (id=6...
password 456789 (id=70)
expectedTitle Dashboard | Admin Panel - Power...
driver ChromeDriver (id=234)
wait WebDriverWait (id=1030)
login LoginPage (id=1085)
apage AdminPage (id=1191)
actualTitle Dashboard | Admin Panel - Power...

```

BaseTest [TestNG]

```

32 WebDriverWait wait=new WebDriverWait(driver, 60);
33 driver.manage().window().maximize();
34 driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
35 driver.get(url);
36
37 LoginPage login = new LoginPage(driver);
38 login.enterEmailAddress(email);
39 login.enterPassword(password);
40 login.clickOnLogin();
41
42 AdminPage apage=new AdminPage(driver, wait);
43 String actualTitle=apage.getCurrentTitle();
44
45 if(actualTitle.equals(expectedTitle))
46 {
47     System.out.println("Test Passed");
48     propfileHandler.setKeyValue(file, "TestResult", "Test Passed");
49 }
50 else
51 {
52     System.out.println("Test failed");
53     propfileHandler.setKeyValue(file, "TestResult", "Test Failed");
54 }
55
56 BannerPage bpage=new BannerPage(driver, wait);
57 bpage.addBanner();
58
59 //excel data using dataprovider
60 //run and check
61 //sends data in excel one by one
62 //@Test(dataProvider = "data")
63 public void testcase2(String user, String pwd)

```

Console Problems Debug Shell Results of running class BaseTest

```

BaseTest [TestNG] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (Dec 14, 2018, 3:33:08 AM)
[RemoteTestNG] detected TestNG version 6.14.3
Starting ChromeDriver 2.44.609538 (b655c5ad0b0b544917107a59d4153d4bf78e1b90) on port 45264
Only local connections are allowed.
Dec 14, 2018 3:34:23 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS

```

SeleniumFramework/src/com/lbm/test/BaseTestJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer BaseTest.java AdminPage.java BannerPage.java LoginPage.java
Variables Breakpoints Expressions
Name Value
<init>() returned (No explicit return value)
this BaseTest (id=30)
file ./TestData/magentodata.properties
propfileHandler PropertiesfileHandler (id=59)
data HashMap<KV> (id=60)
url "http://atozgroceries.com/admin/"...
email demo@atozgroceries.com (id=6...
password 456789 (id=70)
expectedTitle Dashboard | Admin Panel - Power...
driver ChromeDriver (id=234)
wait WebDriverWait (id=1030)
login LoginPage (id=1085)
apage AdminPage (id=1191)
actualTitle Dashboard | Admin Panel - Power...
bpage BannerPage (id=1209)

```

BaseTest [TestNG]

```

32 WebDriverWait wait=new WebDriverWait(driver, 60);
33 driver.manage().window().maximize();
34 driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
35 driver.get(url);
36
37 LoginPage login = new LoginPage(driver);
38 login.enterEmailAddress(email);
39 login.enterPassword(password);
40 login.clickOnLogin();
41
42 AdminPage apage=new AdminPage(driver, wait);
43 String actualTitle=apage.getCurrentTitle();
44
45 if(actualTitle.equals(expectedTitle))
46 {
47     System.out.println("Test Passed");
48     propfileHandler.setKeyValue(file, "TestResult", "Test Passed");
49 }
50 else
51 {
52     System.out.println("Test failed");
53     propfileHandler.setKeyValue(file, "TestResult", "Test Failed");
54 }
55
56 BannerPage bpage=new BannerPage(driver, wait);
57 bpage.addBanner();
58
59 //excel data using dataprovider
60 //run and check
61 //sends data in excel one by one
62 //@Test(dataProvider = "data")
63 public void testcase2(String user, String pwd)

```

Console Problems Debug Shell Results of running class BaseTest

```

BaseTest [TestNG] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (Dec 14, 2018, 3:33:08 AM)
[RemoteTestNG] detected TestNG version 6.14.3
Starting ChromeDriver 2.44.609538 (b655c5ad0b0b544917107a59d4153d4bf78e1b90) on port 45264
Only local connections are allowed.
Dec 14, 2018 3:34:23 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Test Passed

```

Dashboard | Admin Panel - Powered by

https://atozgroceries.com/admin/dashboard?token=e4da3b7fbce2345d7772b0674a318d5

Chrome is being controlled by automated test software.

easyordering | [Logout](#)

[Dashboard](#)

[Catalog](#)

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

[Sales](#)

[Customers](#)

[Marketing](#)

[System](#)

[Reports](#)

Dashboard

[Home / Dashboard](#)

1 Total Orders

₹1,425.00 Total Sales

0 Total Customers

224 Total Products

[View more..](#)

[View more..](#)

[View more..](#)

[View more..](#)

Latest Orders

#	Order ID	Customer	Status	Total	Date Added	Action
1	#1		Pending	₹1,425.00	2018-12-10	View

<https://atozgroceries.com/admin/dashboard?token=e4da3b7fbce2345d7772b0674a318d5#>

Banner | Admin Panel - Powered by

https://atozgroceries.com/admin/banner/tab?token=cfcd208495d565ef66e7dff9f98764da

Chrome is being controlled by automated test software.

easyordering | [Logout](#)

[Dashboard](#)

[Catalog](#)

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

[Sales](#)

[Customers](#)

[Marketing](#)

[System](#)

[Reports](#)

Banners

[+ / Home / Banners](#)

Banner List

Show	entries	Copy	CSV	Excel	PDF	Print	Search:
#	Banner Name	Image	Sort Order	Status	Action		
1	Pavithra		1	Enabled	Action ▾		
2	Banner02		1	Enabled	Action ▾		
3	Testing_Banner1		1	Enabled	Action ▾		
4	Testing_Banner2		2	Enabled	Action ▾		
5	Testing_Banner3		3	Enabled	Action ▾		
6	Testing_Banner4		4	Enabled	Action ▾		

SeleniumFramework/src/com/lbm/pages/BannerPage.java - Eclipse IDE

```

26+     public void addBanner() throws FileNotFoundException, IOException, InterruptedException {
27+
28+         Properties p = new Properties();
29+         p.load(new FileInputStream("./TestData/magentodata.properties"));
30+
31+         driver.findElement(By.xpath("//i[@class='ti-tag']")).click();
32+         driver.findElement(By.xpath("//ul[@id='side-menu']/li[2]/ul/li[2]")).click();
33+         driver.findElement(By.xpath("//a[@title='Add New']")).click();
34+
35+         driver.findElement(By.xpath("//input[@name='name']")).sendKeys(p.getProperty("bannername"));
36+         driver.findElement(By.xpath("//input[@name='sort']")).clear();
37+         driver.findElement(By.xpath("//input[@name='status']")).click();
38+         driver.findElement(By.xpath("//select[@name='status']/option[1]")).click();
39+         driver.findElement(By.xpath("//input[@id='files']")).sendKeys(p.getProperty("imagepath"));
40+         driver.findElement(By.xpath("//button[@title='Save']")).click();
41+         Thread.sleep(2000);
42+
43+         String pagesource = driver.getPageSource();
44+
45+         if(pagesource.contains(p.getProperty("bannername"))){
46+             System.out.println("The presence of added banner is confirmed!");
47+         } else {
48+             System.out.println("The banner is not added to the Banner List");
49+         }
50+
51+
52+
53+
54+
55+
56+
57+

```

Console [x] Problems [x] Debug Shell [x] Results of running class BaseTest

```

BaseTest [TestNG] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (Dec 14, 2018, 3:33:08 AM)
[RemoteTestNG] detected TestNG version 6.14.3
Starting ChromeDriver 2.44.609538 (b655c5ad0b0b54d917107a59d4153d4bf78e1b90) on port 45264
Only local connections are allowed.
Dec 14, 2018 3:34:23 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Test Passed

```

Banner | Admin Panel - Powered by  +

← → ⌂ https://atozgroceries.com/admin/banner/new?token=e4da3b7fbce2345d7772b0674a318d5

Chrome is being controlled by automated test software.

Console [x] Problems [x] Debug Shell [x] Results of running class BaseTest

BaseTest [TestNG] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (Dec 14, 2018, 3:33:08 AM)
[RemoteTestNG] detected TestNG version 6.14.3
Starting ChromeDriver 2.44.609538 (b655c5ad0b0b54d917107a59d4153d4bf78e1b90) on port 45264
Only local connections are allowed.
Dec 14, 2018 3:34:23 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Test Passed

Writable Smart Insert 35:1

Banners

Add Banner

Banner Name

Sort Order

Status

Enabled

Banner Image Only JPG or PNG format allowed!



SeleniumFramework/src/com/lbm/pages/BannerPage.java - Eclipse IDE

```

public void addBanner() throws FileNotFoundException, IOException, InterruptedException {
    Properties p = new Properties();
    p.load(new FileInputStream("./TestData/magentodata.properties"));

    driver.findElement(By.xpath("//i[@class='ti-tag']")).click();
    driver.findElement(By.xpath("//ul[@id='side-menu']/li[2]/ul/li[2]")).click();
    driver.findElement(By.xpath("//a[@title='Add New']")).click();

    driver.findElement(By.xpath("//input[@name='name']")).sendKeys(p.getProperty("bannername"));
    driver.findElement(By.xpath("//input[@name='sortorder']")).sendKeys(p.getProperty("sortorder"));
    driver.findElement(By.xpath("//select[@name='status']/option[1]")).click();
    driver.findElement(By.xpath("//input[@id='files']")).sendKeys(p.getProperty("imagepath"));
    driver.findElement(By.xpath("//button[@title='Save']")).click();
    Thread.sleep(2000);
    driver.findElement(By.xpath("//select[@name='dataTableExample2_length']/option[4]")).click();

    String pagesource = driver.getPageSource();

    if(pagesource.contains(p.getProperty("bannername"))){
        System.out.println("The presence of added banner is confirmed!");
    } else {
        System.out.println("The banner is not added to the Banner List");
    }
}

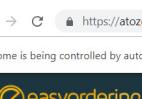
```

Console [x] Problems [x] Debug Shell [x] Results of running class BaseTest

```

BaseTest [TestNG] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (Dec 14, 2018, 3:33:08 AM)
[Ran tests=1] detected TestNG version 6.14.3
Starting ChromeDriver 2.44.609538 (b655c5ad0b0b54d917107a59d4153d4bf78e1b90) on port 45264
Only local connections are allowed.
Dec 14, 2018 3:34:23 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Test Passed

```

Banner | Admin Panel - Powered by 

Chrome is being controlled by automated test software.

Logout

Dashboard

- Catalog
 - Tabs
 - Banners
 - Categories
 - Products
 - Product Image
 - Information
- Sales
- Customers
- Marketing
- System
- Reports

Banners

Add Banner

*** Banner Name**

*** Sort Order**

*** Status**

Enabled

Banner Image

Only JPG or PNG format allowed!



Banner | Admin Panel - Powered by

https://atozgroceries.com/admin/banner/tab?token=45c48cce2e2d7fbdea1af51c7c6ad26

Chrome is being controlled by automated test software.

#	Banner Name	Image	Sort Order	Status	Action
1	Pavithra		1	Enabled	Action
2	Banner02		1	Enabled	Action
3	Testing_Banner1		1	Enabled	Action
4	Banner_Rajendra		1	Enabled	Action
5	Testing_Banner2		2	Enabled	Action

workspace - SeleniumFramework/src/com/lbm/pages/BannerPage.java - Eclipse IDE

File Edit Source Refactor Navigate Project Run Window Help

Debug Project Explorer BaseTest.java AdminPage.java BannerPage.java LoginPage.java

```
public void addBanner() throws FileNotFoundException, IOException, InterruptedException {
    Properties p = new Properties();
    p.load(new FileInputStream("./testdata/magentodata.properties"));

    driver.findElement(By.xpath("//i[@class='ti-tag']")).click();
    driver.findElement(By.xpath("//ul[@id='side-menu']/li[2]/ul/li[2]")).click();
    driver.findElement(By.xpath("//a[@title='Add New']")).click();

    driver.findElement(By.xpath("//input[@name='name']")).sendKeys(p.getProperty("bannername"));
    driver.findElement(By.xpath("//input[@name='sort']")).clear();
    driver.findElement(By.xpath("//select[@name='status']/option[1]")).click();
    driver.findElement(By.xpath("//input[@id='files']")).sendKeys(p.getProperty("imagepath"));
    driver.findElement(By.xpath("//button[@title='Save']")).click();
    Thread.sleep(2000);
    driver.findElement(By.xpath("//select[@name='dataTableExample2_length']/option[4]")).click();

    String pagesource = driver.getPageSource();

    if(pagesource.contains(p.getProperty("bannername"))){
        System.out.println("The presence of added banner is confirmed!");
    } else {
        System.out.println("The banner is not added to the Banner List");
    }
}
```

Variables Breakpoints Expressions

Name Value

this <!DOCTYPE html><html xmlns="...

p BannerPage (id=1209)

pagesource Properties (id=1211) <!DOCTYPE html><html xmlns="..."

Console Problems Debug Shell Results of running class BaseTest

BaseTest [TestNG] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (Dec 14, 2018, 3:33:08 AM)
[RemoteTestNG] detected Testing version 6.14.3
Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 45264
Only local connections are allowed.
Dec 14, 2018 3:34:23 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Test Passed

Writable Smart Insert 46:1

SeleniumFramework/src/com/lbm/pages/BannerPage.java - Eclipse IDE

```

public void addBanner() throws FileNotFoundException, IOException, InterruptedException {
    Properties p = new Properties();
    p.load(new FileInputStream("./TestData/magentodata.properties"));
    driver.findElement(By.xpath("//i[@class='ti-tag']")).click();
    driver.findElement(By.xpath("//ul[@id='side-menu']/li[2]/ul/li[2]")).click();
    driver.findElement(By.xpath("//a[@title='Add New']")).click();

    driver.findElement(By.xpath("//input[@name='name']")).sendKeys(p.getProperty("bannername"));
    driver.findElement(By.xpath("//input[@name='sort']")).clear();
    driver.findElement(By.xpath("//input[@name='status']")).sendKeys(p.getProperty("sortorder"));
    driver.findElement(By.xpath("//input[@id='file']")).sendKeys(p.getProperty("imagepath"));
    driver.findElement(By.xpath("//button[@title='Save']")).click();
    Thread.sleep(2000);
    driver.findElement(By.xpath("//select[@name='dataTableExample2_length']/option[4]")).click();

    String pagesource = driver.getPageSource();
    if(pagesource.contains(p.getProperty("bannername"))){
        System.out.println("The presence of added banner is confirmed!");
    } else {
        System.out.println("The banner is not added to the Banner List");
    }
}

```

Console

```

BaseTest [TestNG] C:\Program Files\Java\jdk_8.0_191\bin\javaw.exe (Dec 14, 2018, 3:33:08 AM)
Starting ChromeDriver 2.44.609538 (655c55a60b0b54d91707a59d4153d4bf78e1b90) on port 45264
Only local connections are allowed.
Dec 14, 2018 3:34:23 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Test Passed
The presence of added banner is confirmed!

```

