#### Task:-

Use the framework to launch the https://magento.com/
Navigate to the login page
Click on forgot password and then click on submit button to validate the error message
And also provide email id "bala#\$\$" and click on submit to check validate email address error message.

## MagentoTest.java

package com.ibm.magentotest; import java.io.FileInputStream; import java.io.FileNotFoundException; import java.io.FileOutputStream; import java.io.IOException; import java.util.HashMap; import java.util.Properties; import java.util.Set; import java.util.concurrent.TimeUnit; import org.openqa.selenium.By; import org.openqa.selenium.WebDriver; import org.openqa.selenium.WebElement; import org.openga.selenium.chrome.ChromeDriver; import org.openga.selenium.support.ui.ExpectedConditions; import org.openqa.selenium.support.ui.WebDriverWait; import org.testng.Assert; import org.testng.Reporter; import org.testng.annotations.AfterMethod; import org.testng.annotations.AfterTest; import org.testng.annotations.BeforeMethod; import org.testng.annotations.BeforeSuite; import org.testng.annotations.BeforeTest;

```
import org.testng.annotations.Test;
import com.ibm.magentopages.HomePage;
import com.ibm.magentopages.LoginPage;
import com.ibm.magentopages.MyAccountPage;
import com.ibm.utilities.PropertiesFileHandler;
import jdk.nashorn.internal.runtime.PrototypeObject;
public class MagentoTest {
WebDriver driver=new ChromeDriver();
WebDriverWait wait;
PropertiesFileHandler propFileHandler;
HashMap<String, String> data;
@BeforeSuite
//passing properties file and PropertiesFileHandler and Hashmap
public void preSetForTest() throws IOException {
String file = "./TestData/magentodata.properties";
propFileHandler = new PropertiesFileHandler();
data = propFileHandler.getPropertiesAsMap(file);
}
@BeforeMethod
//ChromeDriver location , wait period and maximize window
public void Initialization() {
System.setProperty("webdriver.chrome.driver", "./chromedriver.exe");
driver = new ChromeDriver();
wait = new WebDriverWait(driver, 60);
driver.manage().window().maximize();
driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
```

```
@AfterMethod
//After everymethod close chrome browser windows
public void closeBrowser() {
driver.quit();
@Test(priority = 1, testName = "CheckValidCredentials") //to execute this test first we given priority 1
public void positiveCredential() throws IOException {
String url = data.get("url"); //passing url to open website from property file
String userName = data.get("username"); //passing username from property file
String password = data.get("password"); //passing password property file
String expectedTitle = data.get("expectedtitle"); //passing expected results
driver.get(url); //Open url with chrome browser
HomePage home = new HomePage(driver); //Accessing HomePage class
home.clickOnMyAccountIcon();
LoginPage login = new LoginPage(driver, wait); //Accessing LoginPage class
login.enterEmailAddress(userName);
login.enterPassword(password);
login.clickOnLogin();
MyAccountPage myAccount = new MyAccountPage(driver, wait); //Accessing MyAccountPage class
String actualTitle = myAccount.getCurrentTitle();
Assert.assertEquals(actualTitle, expectedTitle); //Comparing actual and expected Toitle
```

```
myAccount.clickOnLogOut(); //Log out from Magento website
}
@Test(priority = 2, invocationCount = 2)
//To execute second test case we given Priority 2 and execute 2 times
public void negativeCredential() throws IOException {
try {
String url = data.get("url");
String userName = data.get("invalidusername"); //Passing invalid username
String password = data.get("password"); //passing password
String expectedMessage = data.get("invaliderrormessage"); Passing invaliderror message
driver.get(url); //open browser
HomePage home = new HomePage(driver); //Accessing HomePage class
home.clickOnMyAccountIcon();
LoginPage login = new LoginPage(driver, wait); //Accessing LoginPage Class
login.enterEmailAddress(userName);
login.enterPassword(password);
login.clickOnLogin();
//Calling method from loginpage class
String pageSource = login.getPageSourceforInvalidErrorMessage();
Assertion to compare results
Assert.assertTrue(pageSource.contains(expectedMessage), "Assertion on Invalid Login Error Message");
Reporter.log("Negataive Credentials Passed");
catch (Exception e) {
```

```
// TODO: handle exception
System.out.println(e.getMessage());
Reporter.log("Negataive Credentials Failed");
//screenshot
//throw e;
Assert.fail();
}
//Execute this test case in last so given priority 3
@Test(priority=3, testName="Check Forgot Email validation")
public void forgotLoginPassword() throws IOException
/*WebDriver driver = new ChromeDriver();
WebDriverWait wait = new WebDriverWait(driver, 60);
driver.manage().window().maximize();
driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
String file = "./TestData/magentodata.properties";
PropertiesFileHandler propFileHandler = new PropertiesFileHandler();
HashMap<String, String> data = propFileHandler.getPropertiesAsMap(file);*/
String url = data.get("url");
String reenteremailaddress=data.get("reenteremailaddress"); //ReEntering email address
driver.get(url); //open chrome browser
HomePage home = new HomePage(driver); // Accessing HomePage class
home.clickOnMyAccountIcon();
```

```
LoginPage login = new LoginPage(driver, wait); //Accessing LoginPage class login.forgotPassword(); login.submitButton();

String pageSourceOne=login.requiredFieldErrorMessage(); //Assertion to compare error message from page source Assert.assertTrue(pageSourceOne.contains("This is a required field."), "Assertion on Required Field"); login.enterForgotEmail(reenteremailaddress); login.submitButton();

String pageSourceTwo=login.getPageSourceToEnterValidEmailErrorMessage(); //Assertion to compare error message from page source Assert.assertTrue(pageSourceTwo.contains("Please enter a valid email address."), "Assertion on Enter Valid Email Address"); }
}
```

# LoginPage.Java

```
package com.ibm.magentopages;
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 LoginPage {
//Located all the elements using locators from browser HTML code
@FindBy(id="email")
WebElement emailEle;
@FindBy(how=How.ID,using="pass")
WebElement passEle;
@FindBy(xpath="//button[@type='submit']")
WebElement loginEle;
By errMsgLoc=By.className("error-msg");
@FindBy(xpath="//a[@href=\"https://account.magento.com/customer/account/forgotpassword/\"]")
WebElement forgotPassword;
@FindBy(xpath="//input[@id='email_address']")
WebElement enterForgotEmail;
@FindBy(xpath="//span[text()='Submit']")
WebElement submitButton;
By requiredErrMsg=By.className("validation-advice");
```

```
By entrValidEmailmsg=By.className("validation-advice");
WebDriverWait wait;
WebDriver driver;
public LoginPage(WebDriver driver, WebDriverWait wait) {
PageFactory.initElements(driver, this);
this.driver=driver;
this.wait=wait;
}
public void enterEmailAddress(String userName) //To Enter email address
{
emailEle.sendKeys(userName);
}
public void enterPassword(String password) //To Enter password
{
passEle.sendKeys(password);
}
public void clickOnLogin() //Click on login button
{
loginEle.click();
}
public String getPageSourceforInvalidErrorMessage() //Getting error message from page source
{
```

```
wait.until(ExpectedConditions.presenceOfElementLocated(errMsgLoc));
return driver.getPageSource();
}
public void forgotPassword() //Click on Forgot password
{
forgotPassword.click();
}
public void enterForgotEmail(String reenteremailaddress) //To reEnter email address
{
enterForgotEmail.sendKeys(reenteremailaddress);
}
public void submitButton() //Click on submit button
{
submitButton.click();
}
public String requiredFieldErrorMessage() //To locate This field is required error message
{
wait.until(ExpectedConditions.presenceOfElementLocated(requiredErrMsg));
return driver.getPageSource();
}
public String getPageSourceToEnterValidEmailErrorMessage() //To locate Enter valid error message
{
wait.until(ExpectedConditions.presenceOfElementLocated(entrValidEmailmsg));
return driver.getPageSource();
}
```

# HomePage.java

```
package com.ibm.magentopages;
import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindAll;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
public class HomePage {
//Xpath to click on MyAccount
@FindBy(xpath="//span[text()='Account']/ancestor::a")
WebElement myAccountEle;
@FindAll(@FindBy(tagName="a"))
List<WebElement> linksEle;
public HomePage(WebDriver driver)
PageFactory.initElements(driver, this);
public void clickOnMyAccountIcon() //To click on MyAccount button
```

```
myAccountEle.click();
}
public int noOfLinks() //no of links in page
{
return linksEle.size();
}
}
```

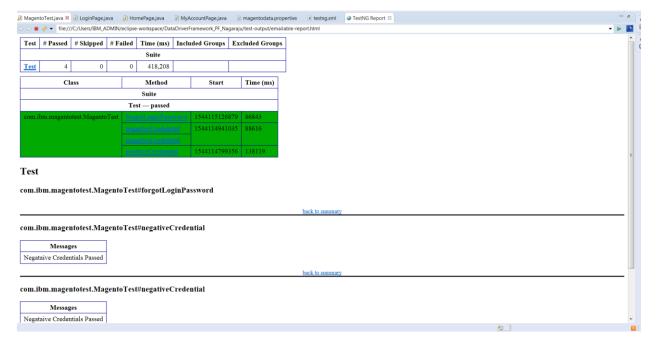
## MyAccountPage.java

```
package com.ibm.magentopages;
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.PageFactory;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
public class MyAccountPage {
By logOutLoc = By.xpath("//a[text()='Log Out']");
WebDriver driver;
WebDriverWait wait;
@FindBy(linkText="Log Out") //To click on log out button
WebElement logOutEle;
public MyAccountPage(WebDriver driver,WebDriverWait wait)
{
```

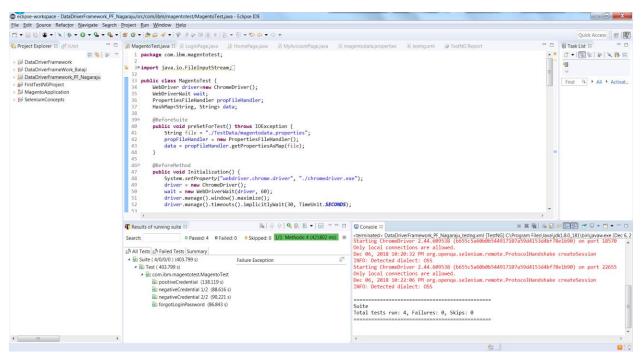
```
this.driver=driver;
this.wait=wait;
PageFactory.initElements(driver,this);
public String getCurrentTitle() { //to find current page title
wait.until(ExpectedConditions.presenceOfElementLocated(logOutLoc));
String actualTitle = driver.getTitle();
return actualTitle;
public void clickOnLogOut() //Click on Log Out
logOutEle.click();
Magentodata.properties
#Test Result
#Wed Dec 05 12:04:29 IST 2018
url=https\://magento.com/
password=Welcome123
TestResult=Test Passed
expectedtitle=My Account
username=balajidinakaran1@gmail.com
invalidusername=bala@gmail.com
invaliderrormessage=Invalid login or password.
reenteremailaddress=bala#$$
requiredfieldMsg=This is a required field.
entervalidemailaddress=Please enter a valid email address.
Testing.xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">
<suite name="Suite" parallel="tests">
```

```
<test thread-count="5" name="Test">
<classes>
<class name="com.ibm.magentotest.MagentoTest">
</class>
</classes>
</classes>
</test><!-- Test -->
</suite> <!-- Suite -->
```

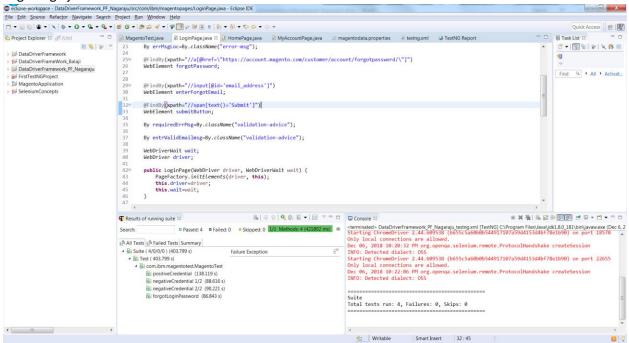
# Output after running code from testing.xml



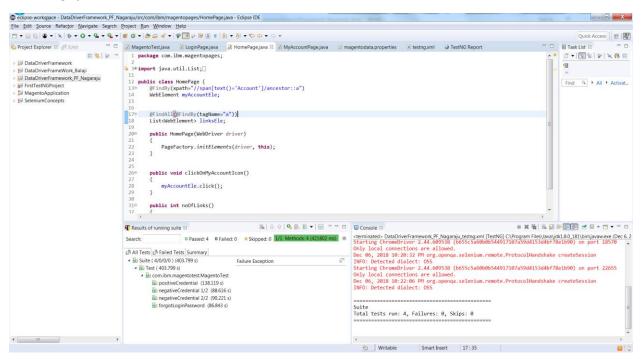
# MagentoTest.java code



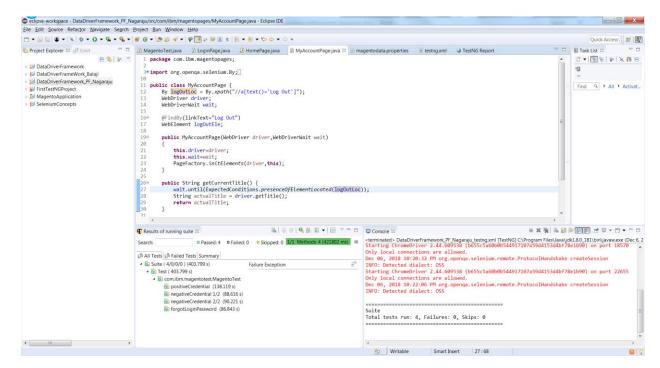
#### LoginPage.java code



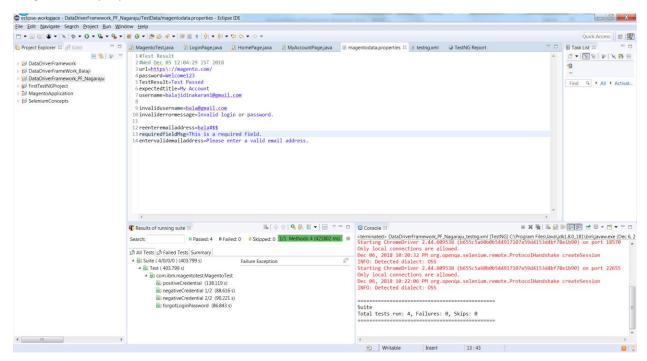
## HomePage.java code



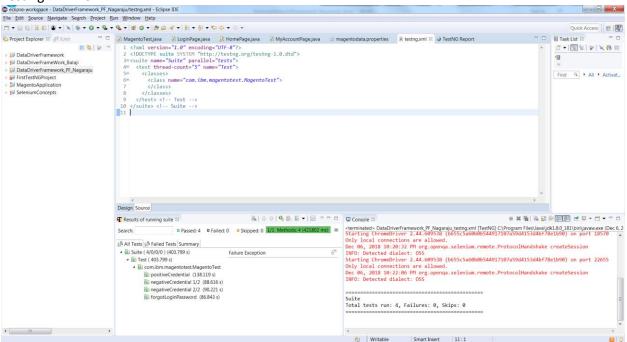
MyAccountPage.java code



#### Magentodata.properties screen shots



#### Testing.xml file



### Report

