EX01:

Create TestNg class to validate login functionality in Orange HRM application

by reading the data from Testng xml file

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TestNg XML file code

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<suite name="Parameterization">

<test name="Login validation">

<parameter name="uid" value="Admin"/>

<parameter name="pwd" value="admin123"/>

<classes>

<class name="testng.pack.OHRMLogin"/>

</classes>

</test>

</suite>

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TestNG class

package testng.pack;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.Assert;

import org.testng.Reporter;

import org.testng.annotations.AfterClass;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.Parameters;

import org.testng.annotations.Test;

public class OHRMLogin {

WebDriver driver;

@BeforeClass

public void setUp() {

System.setProperty("webdriver.chrome.driver", "./Drivers\\chromedriver.exe");

driver=new ChromeDriver();

driver.get("https://opensource-demo.orangehrmlive.com/");

driver.manage().window().maximize();

}

@Test

@Parameters ({"uid", "pwd"})

public void adminLogin(String userId, String passwd) throws InterruptedException {

WebElement objUserName = driver.findElement(By.id("txtUsername"));

if (objUserName.isDisplayed()) {

Reporter.log("Username element found in Application and Script executing ....",true);

//to perform login operation

driver.findElement(By.id("txtUsername")).sendKeys(userId);

driver.findElement(By.id("txtPassword")).sendKeys(passwd);

driver.findElement(By.id("btnLogin")).click();

Thread.sleep(5000);

String pgTitle=driver.getTitle();

Assert.assertEquals(pgTitle, "OrangeHRM");

Reporter.log("Successful login operation");

}

else {

Reporter.log("Username Element not found");

}

}

@AfterClass

public void tearDown() {

driver.close();

}

}

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Ex: create script to perform login operation in OrangeHRM application on

different browsers based on keywords (i.e. Browsers) given from testNG xml

file

TestNG xml file

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<suite name="Cross Browser testing">

<test name="Login validation in Chrome browser">

<parameter name="testBrowser" value="Chrome"/>

<classes>

<class name="testng.pack.OHRMLogin"/>

</classes>

</test>

<test name="Login validation in FF browser">

<parameter name="testBrowser" value="FF"/>

<classes>

<class name="testng.pack.OHRMLogin"/>

</classes>

</test>

<test name="Login validation in IE browser">

<parameter name="testBrowser" value="IE"/>

<classes>

<class name="testng.pack.OHRMLogin"/>

</classes>

</test>

</suite>

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TestNg class

package testng.pack;

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.firefox.FirefoxDriver;

import org.openqa.selenium.ie.InternetExplorerDriver;

import org.testng.Assert;

import org.testng.Reporter;

import org.testng.annotations.AfterClass;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.Parameters;

import org.testng.annotations.Test;

public class OHRMLogin {

WebDriver driver;

@BeforeClass

@Parameters ({"testBrowser"})

public void setUp(String myBrowser) {

switch (myBrowser) {

case "Chrome":

System.setProperty("webdriver.chrome.driver", "./Drivers\\chromedriver.exe");

driver=new ChromeDriver();

System.out.println("suite executing on Chrome Browser");

break;

case "FF":

System.setProperty("webdriver.gecko.driver", "./Drivers\\geckodriver.exe");

driver=new FirefoxDriver();

System.out.println("suite executing on Firefox Browser");

break;

case "IE":

System.setProperty("webdriver.ie.driver", "./Drivers\\IEDriverServer.exe");

driver=new InternetExplorerDriver();

System.out.println("suite executing on IE Browser");

break;

}

driver.get("https://opensource-demo.orangehrmlive.com/");

driver.manage().window().maximize();

}

@Test

public void adminLogin() throws InterruptedException {

WebElement objUserName = driver.findElement(By.id("txtUsername"));

if (objUserName.isDisplayed()) {

Reporter.log("Username element found in Application and Script executing ....",true);

//to perform login operation

driver.findElement(By.id("txtUsername")).sendKeys("Admin");

driver.findElement(By.id("txtPassword")).sendKeys("admin123");

driver.findElement(By.id("btnLogin")).click();

Thread.sleep(5000);

String pgTitle=driver.getTitle();

Assert.assertEquals(pgTitle, "OrangeHRM");

Reporter.log("Successful login operation");

}

else {

Reporter.log("Username Element not found");

}

}

@AfterClass

public void tearDown() {

driver.close();

}

}

=======================================================================

Ex: Create TestNG class with to concatenate strings by taking the data

from DataProvider annotation method

package testng.pack;

import org.testng.annotations.DataProvider;

import org.testng.annotations.Test;

public class ConcatenateEx {

@Test (dataProvider="SampleData")

public void concateStrings(String a, String b) {

System.out.println(a+b);

}

@DataProvider (name="SampleData")

public Object[][] getData(){

Object[][] data= new Object[3][2];

data[0][0]= "Live";

data[0][1]="Tech";

data[1][0]= "Madhukar";

data[1][1]="QAIT";

data[2][0]= "IT";

data[2][1]="Jobs";

return (data);

}

}

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