**ICIN Bank**

**Source Code of selenium testing**

**Testing the Application using Selenium**

**Testing login page:**

package com.icinbank;

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.annotations.Test;

public class ICINBankTests {

@Test

public void loginTest(){

System.out.println("starting login test");

// create driver

System.setProperty("webdriver.chrome.driver","src/main/resources/chromedriver.exe");

WebDriver driver = new ChromeDriver();

//sleep for 3s

sleep(3000);

//maximize browser window

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

String url = "http://localhost:8091/ICINBank/login.jsp";

//open test page

driver.get(url);

System.out.println("Page is opened");

//sleep for 3s

sleep(2000);

WebElement username = driver.findElement(By.name("username"));

username.sendKeys("snegham");

sleep(1500);

WebElement password = driver.findElement(By.name("password"));

password.sendKeys("Snegha@1");

sleep(3000);

WebElement signin = driver.findElement(By.xpath("//div[@class='main']/form[@action='login']/input[@value='Sign in']"));

signin.click();

sleep(5000);

//Verification

String expectedurl = "http://localhost:8091/ICINBank/home.jsp";

String actualurl = driver.getCurrentUrl();

Assert.assertEquals(actualurl, expectedurl, "Actual page url is not same as expected");

WebElement logout = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='logout.jsp']"));

Assert.assertTrue(logout.isDisplayed(), "Logout button is not visible");

WebElement successMsg = driver.findElement(By.xpath("/html//h1[.='Hi, snegham! Welcome to ICIN bank']"));

String expectedMsg = "Hi, snegham! Welcome to ICIN bank";

String actualMsg = successMsg.getText();

Assert.assertEquals(actualMsg, expectedMsg, "Actual message is not the same as expected");

driver.quit();

}

private void sleep(long m)

{

try{

Thread.sleep(m);

}

catch(InterruptedException e)

{

e.printStackTrace();

}

}

}

**Testing admin Login**

package com.icinbank;

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.annotations.Test;

public class ICINBankTests {

@Test

public void adminLoginTest(){

System.out.println("starting admin login test");

// create driver

System.setProperty("webdriver.chrome.driver","src/main/resources/chromedriver.exe");

WebDriver driver = new ChromeDriver();

//sleep for 3s

sleep(3000);

//maximize browser window

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

String url = "http://localhost:8091/ICINBank/login.jsp";

//open test page

driver.get(url);

System.out.println("Page is opened");

//sleep for 3s

sleep(2000);

WebElement admin = driver.findElement(By.xpath("//form[@action='login']/a[@href='/ICINBank/admin/adminLogin.jsp']/button[@type='button']"));

admin.click();

sleep(3000);

WebElement username = driver.findElement(By.name("username"));

username.sendKeys("admin");

sleep(1500);

WebElement password = driver.findElement(By.name("password"));

password.sendKeys("admin");

sleep(3000);

WebElement signin = driver.findElement(By.xpath("//body/div[2]/form[@action='../login']/input[@value='Sign in']"));

signin.click();

sleep(5000);

//Verification

String expectedurl = "http://localhost:8091/ICINBank/admin/adminHome.jsp";

String actualurl = driver.getCurrentUrl();

Assert.assertEquals(actualurl, expectedurl, "Actual page url is not same as expected");

WebElement logout = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='../logout.jsp']/button[.='Logout']"));

Assert.assertTrue(logout.isDisplayed(), "Logout button is not visible");

WebElement successMsg = driver.findElement(By.xpath("/html//h1[.='Welcome to Admin Portal!']"));

String expectedMsg = "Welcome to Admin Portal!";

String actualMsg = successMsg.getText();

Assert.assertEquals(actualMsg, expectedMsg, "Actual message is not the same as expected");

logout.click();

driver.quit();

}

private void sleep(long m)

{

try

{

Thread.sleep(m);

}

catch(InterruptedException e)

{

e.printStackTrace();

}

}

}

**Testing admin user account request**

package com.icinbank;

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.annotations.Test;

public class ICINBankTests {

@Test

public void userAccount(){

System.out.println("starting user account test of admin");

// create driver

System.setProperty("webdriver.chrome.driver","src/main/resources/chromedriver.exe");

WebDriver driver = new ChromeDriver();

//sleep for 3s

sleep(3000);

//maximize browser window

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

String url = "http://localhost:8091/ICINBank/login.jsp";

//open test page

driver.get(url);

System.out.println("Page is opened");

//sleep for 3s

sleep(2000);

WebElement admin = driver.findElement(By.xpath("//form[@action='login']/a[@href='/ICINBank/admin/adminLogin.jsp']/button[@type='button']"));

admin.click();

sleep(3000);

WebElement username = driver.findElement(By.name("username"));

username.sendKeys("admin");

sleep(1500);

WebElement password = driver.findElement(By.name("password"));

password.sendKeys("admin");

sleep(3000);

WebElement signin = driver.findElement(By.xpath("//body/div[2]/form[@action='../login']/input[@value='Sign in']"));

signin.click();

sleep(5000);

//Verification

String expectedurl = "http://localhost:8091/ICINBank/admin/adminHome.jsp";

String actualurl = driver.getCurrentUrl();

Assert.assertEquals(actualurl, expectedurl, "Actual page url is not same as expected");

WebElement chequeBookRequest = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='cheque.jsp']/button[.=userAccount]"));

chequeBookRequest.click();

sleep(5000);

WebElement logout = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='../logout.jsp']/button[.='Logout']"));

Assert.assertTrue(logout.isDisplayed(), "Logout button is not visible");

WebElement successMsg = driver.findElement(By.xpath("/html//h1[.=User Account Page ']"));

String expectedMsg = "User Account Page";

String actualMsg = successMsg.getText();

Assert.assertEquals(actualMsg, expectedMsg, "Actual message is not the same as expected");

logout.click();

driver.quit();

}

private void sleep(long m)

{

try

{

Thread.sleep(m);

}

catch(InterruptedException e)

{

e.printStackTrace();

}

}

}

**Testing admin cheque book request**

package com.icinbank;

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.annotations.Test;

public class ICINBankTests {

@Test

public void chequeBookRequest(){

System.out.println("starting cheque Book Request test of admin");

// create driver

System.setProperty("webdriver.chrome.driver","src/main/resources/chromedriver.exe");

WebDriver driver = new ChromeDriver();

//sleep for 3s

sleep(3000);

//maximize browser window

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

String url = "http://localhost:8091/ICINBank/login.jsp";

//open test page

driver.get(url);

System.out.println("Page is opened");

//sleep for 3s

sleep(2000);

WebElement admin = driver.findElement(By.xpath("//form[@action='login']/a[@href='/ICINBank/admin/adminLogin.jsp']/button[@type='button']"));

admin.click();

sleep(3000);

WebElement username = driver.findElement(By.name("username"));

username.sendKeys("admin");

sleep(1500);

WebElement password = driver.findElement(By.name("password"));

password.sendKeys("admin");

sleep(3000);

WebElement signin = driver.findElement(By.xpath("//body/div[2]/form[@action='../login']/input[@value='Sign in']"));

signin.click();

sleep(5000);

//Verification

String expectedurl = "http://localhost:8091/ICINBank/admin/adminHome.jsp";

String actualurl = driver.getCurrentUrl();

Assert.assertEquals(actualurl, expectedurl, "Actual page url is not same as expected");

WebElement chequeBookRequest = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='cheque.jsp']/button[.='Cheque Book Request']"));

chequeBookRequest.click();

sleep(5000);

WebElement logout = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='../logout.jsp']/button[.='Logout']"));

Assert.assertTrue(logout.isDisplayed(), "Logout button is not visible");

WebElement successMsg = driver.findElement(By.xpath("/html//h1[.='Cheque Book Requests']"));

String expectedMsg = "Cheque Book Requests";

String actualMsg = successMsg.getText();

Assert.assertEquals(actualMsg, expectedMsg, "Actual message is not the same as expected");

logout.click();

driver.quit();

}

private void sleep(long m)

{

try

{

Thread.sleep(m);

}

catch(InterruptedException e)

{

e.printStackTrace();

}

}

}

**Testing User Home**

package com.icinbank;

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.annotations.Test;

public class ICINBankTests {

@Test

public void userHome(){

System.out.println("starting user home test");

// create driver

System.setProperty("webdriver.chrome.driver","src/main/resources/chromedriver.exe");

WebDriver driver = new ChromeDriver();

//sleep for 3s

sleep(3000);

//maximize browser window

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

String url = "http://localhost:8091/ICINBank/login.jsp";

//open test page

driver.get(url);

System.out.println("Page is opened");

//sleep for 3s

sleep(2000);

WebElement username = driver.findElement(By.name("username"));

username.sendKeys("snegham");

sleep(1500);

WebElement password = driver.findElement(By.name("password"));

password.sendKeys("Snegha@1");

sleep(3000);

WebElement signin = driver.findElement(By.xpath("//div[@class='main']/form[@action='login']/input[@value='Sign in']"));

signin.click();

sleep(5000);

//Verification

String expectedurl = "http://localhost:8091/ICINBank/home.jsp";

String actualurl = driver.getCurrentUrl();

Assert.assertEquals(actualurl, expectedurl, "Actual page url is not same as expected");

System.out.println("Go to primary details");

WebElement primaryDetail = driver.findElement(By.xpath("//div[@class='row1']/a[@href='primaryBalance.jsp']/button[.='View Details']"));

primaryDetail.click();

sleep(5000);

WebElement successMsg = driver.findElement(By.xpath("/html//h1[.='Primary Balance Details']"));

String expectedMsg = "Primary Balance Details";

String actualMsg = successMsg.getText();

Assert.assertEquals(actualMsg, expectedMsg, "Actual message is not the same as expected");

WebElement home = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='home.jsp']"));

home.click();

sleep(1500);

System.out.println("Go to savings details");

WebElement savingsDetail = driver.findElement(By.xpath("//div[@class='row2']/a[@href='savingsBalance.jsp']/button[.='View Details']"));

savingsDetail.click();

sleep(5000);

successMsg = driver.findElement(By.xpath("/html//h1[.='Savings Balance Details']"));

expectedMsg = "Savings Balance Details";

actualMsg = successMsg.getText();

Assert.assertEquals(actualMsg, expectedMsg, "Actual message is not the same as expected");

home = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='home.jsp']"));

home.click();

sleep(1500);

System.out.println("Go to deposit");

WebElement deposit = driver.findElement(By.xpath("//div[@class='col1']/a[@href='verification.jsp?msg=deposit']/button[.='Go To Deposit']"));

deposit.click();

sleep(5000);

WebElement verifyPassword = driver.findElement(By.xpath("//form[@action='verification']/input[@name='password']"));

verifyPassword.sendKeys("Snegha@1");

sleep(1500);

WebElement verify = driver.findElement(By.xpath("//form[@action='verification']/input[@value='Verify']"));

verify.click();

sleep(1500);

successMsg = driver.findElement(By.xpath("/html//h1[.='Deposit Amount']"));

expectedMsg = "Deposit Amount";

actualMsg = successMsg.getText();

Assert.assertEquals(actualMsg, expectedMsg, "Actual message is not the same as expected");

WebElement amount = driver.findElement(By.xpath("//form[@action='deposit']/input[@name='amount']"));

amount.sendKeys("15000");

sleep(1500);

WebElement number = driver.findElement(By.xpath("//form[@action='deposit']/input[@name='accountNo']"));

number.sendKeys("12903476");

sleep(1500);

WebElement deposit1 = driver.findElement(By.xpath("//form[@action='deposit']/input[@value='Deposit']"));

deposit1.click();

successMsg = driver.findElement(By.xpath("/html//h2[.='Deposited Successfully!']"));

expectedMsg = "Deposited Successfully!";

actualMsg = successMsg.getText();

Assert.assertEquals(actualMsg, expectedMsg, "Actual message is not the same as expected");

System.out.println("Deposited Successfully");

home = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='home.jsp']"));

home.click();

sleep(1500);

System.out.println("Go to withdraw");

WebElement withdraw = driver.findElement(By.xpath("//div[@class='col2']/a[@href='verification.jsp?msg=withdraw']/button[.='Go To Withdraw']"));

withdraw.click();

sleep(5000);

verifyPassword = driver.findElement(By.xpath("//form[@action='verification']/input[@name='password']"));

verifyPassword.sendKeys("Snegha@1");

sleep(1500);

verify = driver.findElement(By.xpath("//form[@action='verification']/input[@value='Verify']"));

verify.click();

sleep(1500);

successMsg = driver.findElement(By.xpath("/html//h1[.='Withdraw Amount']"));

expectedMsg = "Withdraw Amount";

actualMsg = successMsg.getText();

Assert.assertEquals(actualMsg, expectedMsg, "Actual message is not the same as expected");

amount = driver.findElement(By.xpath("//form[@action='withdraw']/input[@name='amount']"));

amount.sendKeys("1500");

sleep(1500);

number = driver.findElement(By.xpath("//form[@action='withdraw']/input[@name='accountNo']"));

number.sendKeys("87654901");

sleep(1500);

withdraw = driver.findElement(By.xpath("//form[@action='withdraw']/input[@value='Withdraw']"));

withdraw.click();

System.out.println("Withdrawn Successfully");

home = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='home.jsp']"));

home.click();

WebElement logout = driver.findElement(By.xpath("//div[@class='navbar']/a[@href='logout.jsp']"));

Assert.assertTrue(logout.isDisplayed(), "Logout button is not visible");

logout.click();

driver.quit();

}

private void sleep(long m)

{

try

{

Thread.sleep(m);

}

catch(InterruptedException e)

{

e.printStackTrace();

}

}

}