# **Entire code for end to end run**

**package** com.Gurukula.Pack;

**import** **static** org.junit.Assert.\*;

**import** java.util.List;

**import** java.util.Random;

**import** java.util.concurrent.TimeUnit;

**import** java.util.stream.DoubleStream;

**import** org.junit.Test;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.NoSuchElementException;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.firefox.FirefoxDriver;

**import** org.openqa.selenium.support.ui.Select;

**public** **class** GurukulaTest {

@Test

**public** **void** test() **throws** InterruptedException {

// @@@ Following is Setup Driver for Firefox browser @@@//

WebDriver driver = **new** FirefoxDriver();

driver.get("http://10.0.1.9:8080");

driver.manage().timeouts().implicitlyWait(5, TimeUnit.***SECONDS***);

System.***out***.println("Open Gurukula Home Page");

// @@@ Following is Test Case for to login Gurukula @@@ //

Thread.*sleep*(5000);

driver.findElement(By.*xpath*("//a[text()='login']")).click();

driver.findElement(By.*id*("username")).sendKeys("admin");

driver.findElement(By.*id*("password")).sendKeys("admin");

driver.findElement(By.*xpath*("//button[text()='Authenticate']")).click();

String Login\_Text = (driver.findElement(By.*cssSelector*("div.alert.alert-success.ng-scope.ng-binding"))

.getText());

**if** (driver.getPageSource().contains(Login\_Text)) {

System.***out***.println("Success Login: " + Login\_Text);

*assertTrue*(**true**);

} **else** {

System.***out***.println("Unsuccessful Login ");

}

// @@@ Following is Test Case to login and Validate Login Information @@@ //

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//span[text()='Account']"))

.click(); /\* Click on Account \*/

driver.findElement(By.*xpath*("//span[text()='Settings']"))

.click(); /\* Click on Settings \*/

String First\_Name = "Administrator";

String Last\_Name = "Administrator";

String Email = "admin@localhost";

String First\_Name1 = (driver.findElement(By.*name*("firstName"))

.getAttribute("value")); /\* Get value from firstName \*/

String Last\_Name1 = (driver.findElement(By.*name*("lastName"))

.getAttribute("value")); /\* Get value from lastName \*/

String Email1 = (driver.findElement(By.*name*("email"))

.getAttribute("value")); /\* Get value from email \*/

Thread.*sleep*(8000);

**if** ((First\_Name.equals(First\_Name1)) && (Last\_Name.equals(Last\_Name1))

&& (Email.equals(Email1))) /\* Verify with login details \*/

{

System.***out***.println("User is Logged in as Admin");

*assertTrue*(**true**);

} **else** {

System.***out***.println("Error!!");

*assertTrue*(**true**);

}

// @@@ Following is Test Case to create "ABCBranch" Branch with code "66" @@@ //

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Branch']"))

.click(); /\* click Branch \*/

driver.findElement(By.*xpath*("//div[@class='col-md-4']/button"))

.click(); /\* Create a New Branch \*/

Thread.*sleep*(3000);

driver.findElement(By.*name*("name")).sendKeys("ABCBranch"); /\* ABCBranch \*/

driver.findElement(By.*name*("code")).sendKeys("66"); /\* Code 66 \*/

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click Save \*/

System.***out***.println("Branch ABCBranch with code 66 has been created");

// @@@ Following is Test Case to create "BCDBranch" Branch with code "22" @@@ //

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Branch']"))

.click(); /\* click Branch \*/

driver.findElement(By.*xpath*("//div[@class='col-md-4']/button"))

.click(); /\* Create a New Branch \*/

Thread.*sleep*(3000);

driver.findElement(By.*name*("name")).sendKeys("BCDBranch"); /\* BCDBranch \*/

driver.findElement(By.*name*("code")).sendKeys("22"); /\* Code 22 \*/

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click Save \*/

System.***out***.println("Branch BCDBranch with code 22 has been created");

// @@@ Following is Test Case to create "CDEBranch" Branch with code "622" @@@ //

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Branch']"))

.click(); /\* click Branch \*/

driver.findElement(By.*xpath*("//div[@class='col-md-4']/button"))

.click(); /\* Create a New Branch \*/

Thread.*sleep*(3000);

driver.findElement(By.*name*("name")).sendKeys("CDEBranch"); /\* CDEBranch \*/

driver.findElement(By.*name*("code")).sendKeys("622"); /\* Code 622 \*/

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click Save \*/

System.***out***.println("Branch CDEBranch with code 622 has been created");

// @@@ Following is Test Case to create "DEFBranch" Branch with code "44" @@@ //

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Branch']"))

.click(); /\* click Branch \*/

driver.findElement(By.*xpath*("//div[@class='col-md-4']/button"))

.click(); /\* Create a New Branch \*/

Thread.*sleep*(3000);

driver.findElement(By.*name*("name")).sendKeys("DEFBranch"); /\* DEFBranch \*/

driver.findElement(By.*name*("code")).sendKeys("44"); /\* Code 44 \*/

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click Save \*/

System.***out***.println("Branch DEFBranch with code 44 has been created");

// @@@ Following is Test Case to Create Random Branch @@@ //

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Branch']"))

.click(); /\* click Branch \*/

driver.findElement(By.*xpath*("//div[@class='col-md-4']/button"))

.click(); /\* Create a New Branch \*/

Thread.*sleep*(3000);

String alphabet = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

**int** N = alphabet.length();

Random r = **new** Random();

String BranchName = "Branch"

+ (alphabet.charAt(r.nextInt(N))); /\* Random Branch Name \*/

driver.findElement(By.*name*("name")).sendKeys(BranchName);

**int** code = **new** Random().nextInt(990);

**int** code1 = **new** Random().nextInt(990);

code = (code % code1) + 10; /\* Random code \*/

driver.findElement(By.*name*("code")).sendKeys(Integer.*toString*(code));

Thread.*sleep*(3000);

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click();/\* Save a New Branch \*/

System.***out***.println("Branch name is " + BranchName);

System.***out***.println("Code is " + code);

Thread.*sleep*(3000);

WebElement BaseTable10 = driver.findElement(By.*className*("table-responsive"));

List<WebElement> TableRows10 = BaseTable10.findElements(By.*tagName*("tr"));

**int** TableRows\_Size10 = TableRows10.size();

System.***out***.println(TableRows10.get(TableRows\_Size10 - 1)

.getText()); /\* click on View on the newly created Branch \*/

Thread.*sleep*(2000);

**if** (TableRows10.get(TableRows\_Size10 - 1).getText().contains(BranchName)

&& TableRows10.get(TableRows\_Size10 - 1).getText().contains(Integer.*toString*(

code))) /\* Verify combination of Branch Name and Code \*/

{

System.***out***.println("Combination of Branch " + BranchName + " and Code " + code + " Created!!!");

*assertTrue*(**true**);

}

**else** {

System.***out***.println("Combination of Branch " + BranchName + "and Code" + code + " not Created!!!");

}

// @@@ Following is Test Case to Search a Branch @@@ //

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Branch']"))

.click(); /\* click Branch \*/

driver.findElement(By.*id*("searchQuery"))

.sendKeys(BranchName); /\* Searching with Branch Name \*/

Thread.*sleep*(5000);

driver.findElement(By.*cssSelector*("button.btn.btn-info"))

.click(); /\* Click n Search \*/

Thread.*sleep*(2000);

**if** (driver.getPageSource().contains(

BranchName)) /\* Verify the search page with Branch Name \*/

{

System.***out***.println("Search result page is displayed for Branch " + BranchName);

}

driver.findElement(By.*id*("searchQuery")).clear();

driver.findElement(By.*cssSelector*("button.btn.btn-info")).click();

driver.findElement(By.*id*("searchQuery"))

.sendKeys(Integer.*toString*(code)); /\* Searching with code \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-info"))

.click(); /\* Click n Search \*/

Thread.*sleep*(2000);

**if** (driver.getPageSource().contains(

Integer.*toString*(code))) /\* Verify the search page with code \*/

{

System.***out***.println("Search result page is displayed for Branch code " + code);

}

driver.findElement(By.*id*("searchQuery")).clear();

driver.findElement(By.*cssSelector*("button.btn.btn-info"))

.click(); /\* Back to Branches screen \*/

// @@@ Following is Test Case to View and Confirm a Branch @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement11 = driver.findElements(By.*xpath*("//table//td[contains(.,BranchName)]"));

**int** Count11 = AllElement11.size();

Thread.*sleep*(3000);

AllElement11.get(Count11 - 1).findElement(By.*cssSelector*("button.btn.btn-info.btn-sm"))

.click(); /\* click on view on newly created Branch \*/

Thread.*sleep*(2000);

WebElement View\_Table = driver.findElement(By.*className*("table-responsive"));

List<WebElement> View\_Table\_Row = View\_Table.findElements(By.*tagName*("tr"));

**int** View\_Table\_Row\_Count = View\_Table\_Row.size();

String View\_Branch\_Name = View\_Table\_Row.get(View\_Table\_Row\_Count - 2)

.findElement(By.*cssSelector*("input.input-sm.form-control"))

.getAttribute("value");/\* Branch Name from the view table \*/

String View\_Code\_Name = View\_Table\_Row.get(View\_Table\_Row\_Count - 1)

.findElement(By.*cssSelector*("input.input-sm.form-control"))

.getAttribute("value"); /\* Code from the view table \*/

**if** ((BranchName.equals(View\_Branch\_Name)) && (Integer.*toString*(code)

.equals(View\_Code\_Name))) /\* Verify the Branch Name and Code \*/

{

System.***out***.println("Branch " + BranchName + " and Code " + code + " are correctly viewed");

} **else** {

System.***out***.println("Branch View is incorrect!!");

}

driver.findElement(By.*cssSelector*("button.btn.btn-info"))

.click(); /\* Back to Branch Screen \*/

// @@@ Following is Test Case to Edit a Branch and Cancel @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement12 = driver.findElements(By.*xpath*("//table//td[contains(.,BranchName)]"));

**int** Count12 = AllElement12.size();

Thread.*sleep*(2000);

AllElement12.get(Count12 - 1).findElement(By.*cssSelector*("button.btn.btn-primary.btn-sm"))

.click(); /\* Click edit on the newly created Branch \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-default"))

.click(); /\* Cancel the Edit screen \*/

System.***out***.println("No edit and back to Branch Screen");

// @@@ Following is Test Case to Delete a Branch and Cancel @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement13 = driver.findElements(By.*xpath*("//table//td[contains(.,BranchName)]"));

**int** Count13 = AllElement13.size();

Thread.*sleep*(2000);

AllElement13.get(Count13 - 1).findElement(By.*cssSelector*("button.btn.btn-danger.btn-sm"))

.click(); /\* Click Delete on the newly created Branch \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("form[name=\"deleteForm\"] > div.modal-footer > button.btn.btn-default"))

.click(); /\* Cancel the Delete screen \*/

System.***out***.println("No delete and back to Branch Screen");

// @@@ Following is Test Case to Edit a Branch, edit the Code and Confirm @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement15 = driver.findElements(By.*xpath*("//table//td[contains(.,BranchName)]"));

**int** Count15 = AllElement15.size();

Thread.*sleep*(2000);

AllElement15.get(Count15 - 1).findElement(By.*cssSelector*("button.btn.btn-primary.btn-sm"))

.click(); /\* Click edit on the newly created Branch \*/

Thread.*sleep*(2000);

driver.findElement(By.*name*("code")).clear();

**int** code11 = **new** Random().nextInt(990);

**int** code22 = **new** Random().nextInt(990);

code11 = (code11 % code22) + 10; /\* random code \*/

driver.findElement(By.*name*("code"))

.sendKeys(Integer.*toString*(code11)); /\* Edit the code \*/

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click Save \*/

System.***out***.println("Edited code is " + code11);

Thread.*sleep*(2000);

**int** Index15 = Count15 / 4;

WebElement BaseTable15 = driver.findElement(By.*className*("table-responsive"));

List<WebElement> TableRows15 = BaseTable15.findElements(By.*tagName*("tr"));

System.***out***.println(TableRows15.get(Index15)

.getText()); /\* Will print the last row from Branch screen \*/

**if** (TableRows15.get(Index15).getText().contains(

Integer.*toString*(code11))) /\* Verify the code is edited \*/

{

System.***out***.println("Code has been changed successfully!!!");

*assertTrue*(**true**);

}

**else** {

System.***out***.println("Please check your code!!!");

}

// @@@ Following is Test Case to Edit a Branch, edit the Branch Name and Confirm @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement14 = driver.findElements(By.*xpath*("//table//td[contains(.,BranchName)]"));

**int** Count14 = AllElement14.size();

Thread.*sleep*(2000);

AllElement14.get(Count14 - 1).findElement(By.*cssSelector*("button.btn.btn-primary.btn-sm"))

.click(); /\* Click Edit on the newly created Branch \*/

Thread.*sleep*(2000);

String BranchName14 = "Branch"

+ (alphabet.charAt(r.nextInt(N))); /\* Random Branch Name \*/

driver.findElement(By.*name*("name")).clear();

driver.findElement(By.*name*("name"))

.sendKeys(BranchName14); /\* Edit the Branch Name \*/

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary")).click(); /\* Save \*/

System.***out***.println("Edited Branch Name is " + BranchName14);

Thread.*sleep*(2000);

**int** Index14 = Count14 / 4;

WebElement BaseTable14 = driver.findElement(By.*className*("table-responsive"));

List<WebElement> TableRows14 = BaseTable14.findElements(By.*tagName*("tr"));

System.***out***.println(TableRows14.get(Index14)

.getText()); /\* Will print the last row from Branch screen \*/

**if** (TableRows14.get(Index14).getText()

.contains(BranchName14)) /\* Verify the Branch Name is edited \*/

{

System.***out***.println("Branchname has been changed successfully!!!");

*assertTrue*(**true**);

}

**else** {

System.***out***.println("Please check your code!!!");

}

// @@@ Following is Test Case to Delete a Branch and Confirm @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement16 = driver.findElements(By.*xpath*("//table//td[contains(.,BranchName)]"));

**int** Count16 = AllElement16.size();

AllElement16.get(Count16 - 1).findElement(By.*cssSelector*("button.btn.btn-danger.btn-sm"))

.click(); /\* Click on Delete \*/

Thread.*sleep*(3000);

driver.findElement(By.*cssSelector*("form[name=\"deleteForm\"] > div.modal-footer > button.btn.btn-danger"))

.click();/\* Click on confirm Delete \*/

System.***out***.println("Branch is deleted");

// @@@ Following is Test Case to create "ABCStaff" Staff @@@ //

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* Click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Staff']"))

.click(); /\* Click Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-primary"))

.click(); /\* Click on Create a Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*name*("name"))

.sendKeys("ABCStaff"); /\* Generate ABCStaff Staff Name \*/

Thread.*sleep*(2000);

WebElement Branch\_Dropdown30 = driver.findElement(By.*name*("related\_branch"));

Select Branch30 = **new** Select(Branch\_Dropdown30);

Branch30.selectByIndex(2); /\* Select Branch from dropdown \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click save \*/

System.***out***.println("Staff ABCStaff has been created");

// @@@ Following is Test Case to create "BCDStaff" Staff @@@ //

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* Click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Staff']"))

.click(); /\* Click Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-primary"))

.click(); /\* Click on Create a Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*name*("name"))

.sendKeys("BCDStaff"); /\* Generate BCDStaff Staff Name \*/

Thread.*sleep*(2000);

WebElement Branch\_Dropdown40 = driver.findElement(By.*name*("related\_branch"));

Select Branch40 = **new** Select(Branch\_Dropdown40);

Branch40.selectByIndex(4); /\* Select Branch from dropdown \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click save \*/

System.***out***.println("Staff BCDStaff has been created");

// @@@ Following is Test Case to create "CDEStaff" Staff @@@ //

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* Click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Staff']"))

.click(); /\* Click Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-primary"))

.click(); /\* Click on Create a Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*name*("name"))

.sendKeys("CDEStaff"); /\* Generate CDEStaff Staff Name \*/

Thread.*sleep*(2000);

WebElement Branch\_Dropdown50 = driver.findElement(By.*name*("related\_branch"));

Select Branch50 = **new** Select(Branch\_Dropdown50);

Branch50.selectByIndex(3); /\* Select Branch from dropdown \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click save \*/

System.***out***.println("Staff CDEStaff has been created");

// @@@ Following is Test Case to create DEFStaff Staff @@@ //

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* Click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Staff']"))

.click(); /\* Click Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-primary"))

.click(); /\* Click on Create a Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*name*("name"))

.sendKeys("DEFStaff"); /\* Generate DEFStaff Staff Name \*/

Thread.*sleep*(2000);

WebElement Branch\_Dropdown60 = driver.findElement(By.*name*("related\_branch"));

Select Branch60 = **new** Select(Branch\_Dropdown60);

Branch60.selectByIndex(4); /\* Select Branch from dropdown \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click save \*/

System.***out***.println("Staff DEFStaff has been created");

// @@@ Following is Test Case to Create a random Staff @@@ //

Thread.*sleep*(2000);

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* Click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Staff']"))

.click(); /\* Click Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-primary"))

.click(); /\* Click on Create a Staff \*/

Thread.*sleep*(2000);

String alphabet1 = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

**int** N1 = alphabet1.length();

Random r1 = **new** Random();

String StaffName = "Staff" + (alphabet1

.charAt(r1.nextInt(N1))); /\* generate Random Staff Name \*/

System.***out***.println("StaffName is " + StaffName);

driver.findElement(By.*name*("name")).sendKeys(StaffName);

Thread.*sleep*(2000);

WebElement Branch\_Dropdown20 = driver.findElement(By.*name*("related\_branch"));

Select Branch20 = **new** Select(Branch\_Dropdown20);

**int** OptionIndex20 = r.nextInt(Branch20.getOptions().size() - 1);

Thread.*sleep*(2000);

Branch20.selectByIndex(

OptionIndex20 + 2); /\* Select random Branch from dropdown \*/

Thread.*sleep*(2000);

WebElement Selected\_Branch20 = Branch20.getFirstSelectedOption();

String Branch\_Staff = Selected\_Branch20.getText();

System.***out***.println("Branch Name is " + Branch\_Staff);

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click save \*/

Thread.*sleep*(3000);

WebElement BaseTable20 = driver.findElement(By.*className*("table-responsive"));

List<WebElement> TableRows20 = BaseTable20.findElements(By.*tagName*("tr"));

**int** TableRows\_Size20 = TableRows20.size();

System.***out***.println(TableRows20.get(TableRows\_Size20 - 1)

.getText()); /\* will get newly created Staff \*/

Thread.*sleep*(2000);

**if** (TableRows20.get(TableRows\_Size20 - 1).getText().contains(StaffName)

&& TableRows20.get(TableRows\_Size20 - 1).getText()

.contains(Branch\_Staff)) /\* Verify combination of Staff Name and Branch name \*/

{

System.***out***.println("Combination of Staff " + StaffName + " and Branch " + Branch\_Staff + " Created!!!");

*assertTrue*(**true**);

}

**else** {

System.***out***.println("Combination of Staff " + StaffName + " and Branch " + Branch\_Staff + " not Created!!!");

}

// @@@ Following is Test Case to Search a Staff @@@ //

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* Click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Staff']"))

.click(); /\* Click Staff \*/

driver.findElement(By.*id*("searchQuery"))

.sendKeys(StaffName); /\* Searching with Staff Name \*/

Thread.*sleep*(5000);

driver.findElement(By.*cssSelector*("button.btn.btn-info"))

.click(); /\* click on search button \*/

Thread.*sleep*(2000);

**if** (driver.getPageSource().contains(

StaffName)) /\* Verify the search page with Staff Name \*/

{

System.***out***.println("Search result page is displayed for Staff " + StaffName);

}

driver.findElement(By.*id*("searchQuery")).clear();

driver.findElement(By.*cssSelector*("button.btn.btn-info")).click();

driver.findElement(By.*id*("searchQuery"))

.sendKeys(Branch\_Staff); /\* Searching with Branch Name \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-info"))

.click(); /\* click on search button \*/

Thread.*sleep*(2000);

**if** (driver.getPageSource().contains(Branch\_Staff)) {

System.***out***.println("Search result page is displayed for Branch "

+ Branch\_Staff); /\* Verify the search page with Branch Name \*/

}

driver.findElement(By.*id*("searchQuery")).clear();

driver.findElement(By.*cssSelector*("button.btn.btn-info"))

.click(); /\* Back to Staff \*/

// @@@ Following is Test Case to View and Confirm a Staff @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement21 = driver.findElements(By.*xpath*("//table//td[contains(.,StaffName)]"));

**int** Count21 = AllElement21.size();

Thread.*sleep*(3000);

AllElement21.get(Count21 - 1).findElement(By.*cssSelector*("button.btn.btn-info.btn-sm"))

.click(); /\* click on view on newly created Staff \*/

Thread.*sleep*(2000);

WebElement Staff\_Table21 = driver.findElement(By.*className*("table-responsive"));

List<WebElement> Staff\_Table\_Row21 = Staff\_Table21.findElements(By.*tagName*("tr"));

**int** Staff\_Table\_Row\_Count21 = Staff\_Table\_Row21.size();

String View\_Staff\_Name = Staff\_Table\_Row21.get(Staff\_Table\_Row\_Count21 - 2)

.findElement(By.*cssSelector*("input.input-sm.form-control"))

.getAttribute("value"); /\* Staff Name from the view table \*/

String Staff\_Branch\_Name = Staff\_Table\_Row21.get(Staff\_Table\_Row\_Count21 - 1)

.findElement(By.*cssSelector*("input.input-sm.form-control"))

.getAttribute("value"); /\* Branch Name from the view table \*/

Thread.*sleep*(2000);

**if** ((StaffName.equals(View\_Staff\_Name)) && (Branch\_Staff

.equals(Staff\_Branch\_Name))) /\* Verify the Staff Name and Branch Name properly viewed \*/

{

System.***out***.println("Staff " + StaffName + " and Branch " + Branch\_Staff + " are correctly viewed");

} **else** {

System.***out***.println("Staff View is incorrect!!");

}

driver.findElement(By.*cssSelector*("button.btn.btn-info"))

.click(); /\* Back to Staff Screen \*/

// @@@ Following is Test Case to Edit a Staff and Cancel @@@//

Thread.*sleep*(2000);

List<WebElement> AllElement22 = driver.findElements(By.*xpath*("//table//td[contains(.,StaffName)]"));

**int** Count22 = AllElement22.size();

Thread.*sleep*(2000);

AllElement22.get(Count22 - 1).findElement(By.*cssSelector*("button.btn.btn-primary.btn-sm"))

.click();/\* click Edit on the created Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-default"))

.click(); /\* Click Cancel on the Edit Screen \*/

System.***out***.println("No edit and back to Staff Screen");

// @@@ Following is Test Case to Delete a Staff and Cancel @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement23 = driver.findElements(By.*xpath*("//table//td[contains(.,StaffName)]"));

**int** Count23 = AllElement23.size();

Thread.*sleep*(2000);

AllElement23.get(Count23 - 1).findElement(By.*cssSelector*("button.btn.btn-danger.btn-sm"))

.click(); /\* Click Delete on the created Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("form[name=\"deleteForm\"] > div.modal-footer > button.btn.btn-default"))

.click(); /\* Click Cancel on the Delete Screen \*/

System.***out***.println("No edit and back to Staff Screen");

// @@@ Following is Test Case to Edit a Staff, edit the Branch Name and confirm @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement25 = driver.findElements(By.*xpath*("//table//td[contains(.,StaffName)]"));

**int** Count25 = AllElement25.size();

Thread.*sleep*(2000);

AllElement25.get(Count25 - 1).findElement(By.*cssSelector*("button.btn.btn-primary.btn-sm"))

.click(); /\* Click Edit on the newly created Staff \*/

Thread.*sleep*(2000);

WebElement Branch\_Dropdown25 = driver.findElement(By.*name*("related\_branch"));

Select Branch25 = **new** Select(Branch\_Dropdown25);

**int** OptionIndex25 = r1.nextInt(Branch25.getOptions().size() - 1);

Thread.*sleep*(2000);

Branch25.selectByIndex(OptionIndex25 + 2); /\* Edit Branch name \*/

Thread.*sleep*(2000);

WebElement Selected\_Branch25 = Branch25.getFirstSelectedOption();

String Branch\_Staff25 = Selected\_Branch25.getText();

System.***out***.println("Edited Branch is " + Branch\_Staff25);

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click();/\* Click Save \*/

Thread.*sleep*(2000);

WebElement BaseTable25 = driver.findElement(By.*className*("table-responsive"));

List<WebElement> TableRows25 = BaseTable25.findElements(By.*tagName*("tr"));

**int** TableRows\_Size25 = TableRows25.size();

System.***out***.println(TableRows25.get(TableRows\_Size25 - 1)

.getText()); /\* Will display the last row of Staff \*/

Thread.*sleep*(2000);

**if** (TableRows25.get(TableRows\_Size25 - 1).getText().contains(

Branch\_Staff25)) /\* Verify the Branch Name is edited \*/

{

System.***out***.println("Branch Name for the staff has been changed successfully!!!");

*assertTrue*(**true**);

}

**else** {

System.***out***.println("Please check your code!!!");

}

// @@@ Following is Test Case to Edit a Staff, edit the Staff Name and confirm @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement24 = driver.findElements(By.*xpath*("//table//td[contains(.,StaffName)]"));

**int** Count24 = AllElement24.size();

Thread.*sleep*(2000);

AllElement24.get(Count24 - 1).findElement(By.*cssSelector*("button.btn.btn-primary.btn-sm"))

.click(); /\* Click Edit on the newly created Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*name*("name")).clear();

String StaffName24 = "Staff"

+ (alphabet1.charAt(r1.nextInt(N1))); /\* Random Staff Name \*/

driver.findElement(By.*name*("name"))

.sendKeys(StaffName24); /\* Edit Staff Name \*/

driver.findElement(By.*cssSelector*("div.modal-footer > button.btn.btn-primary"))

.click(); /\* Click Save \*/

System.***out***.println("Edited Staff Name is " + StaffName24);

Thread.*sleep*(2000);

WebElement BaseTable24 = driver.findElement(By.*className*("table-responsive"));

List<WebElement> TableRows24 = BaseTable24.findElements(By.*tagName*("tr"));

**int** TableRows\_Size24 = TableRows24.size();

System.***out***.println(TableRows24.get(TableRows\_Size24 - 1)

.getText()); /\* will show last row of Staff \*/

Thread.*sleep*(2000);

**if** (TableRows24.get(TableRows\_Size24 - 1).getText()

.contains(StaffName24)) /\* Verify the Staff Name is edited \*/

{

System.***out***.println("Staffname has been changed successfully!!!");

*assertTrue*(**true**);

}

**else** {

System.***out***.println("Please check your code!!!");

}

// @@@ Following is Test Case to Delete a Staff and Confirm @@@ //

Thread.*sleep*(2000);

List<WebElement> AllElement26 = driver.findElements(By.*xpath*("//table//td[contains(.,StaffName)]"));

**int** Count26 = AllElement26.size();

AllElement26.get(Count26 - 1).findElement(By.*cssSelector*("button.btn.btn-danger.btn-sm"))

.click(); /\* Click on Delete \*/

Thread.*sleep*(3000);

driver.findElement(By.*cssSelector*("form[name=\"deleteForm\"] > div.modal-footer > button.btn.btn-danger"))

.click(); /\* Click on confirm Delete \*/

System.***out***.println("Staff is deleted");

// @@@ Following is Negative Test Case for Branch @@@ //

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Branch']"))

.click(); /\* click Branch \*/

driver.findElement(By.*xpath*("//div[@class='col-md-4']/button"))

.click(); /\* Create a New Branch \*/

Thread.*sleep*(3000);

driver.findElement(By.*name*("name")).sendKeys("A"); /\* A \*/

**if** (driver.getPageSource().contains("This field is required to be at least 5 characters.")) /\* Verify the error message\*/

{

System.***out***.println("Have to enter minimum 5 characters in Branchname");

}

Thread.*sleep*(2000);

driver.findElement(By.*name*("name")).sendKeys("12345"); /\* A12345 \*/

**if** (driver.getPageSource().contains("This field should follow pattern")) /\* Verify the error message\*/

{

System.***out***.println("Have to enter minimum 5 characters of a-z or/and A-Z in Branchname");

}

Thread.*sleep*(2000);

driver.findElement(By.*name*("code")).sendKeys("A"); /\*A\*/

**if** (driver.getPageSource().contains("This field should follow pattern")) /\* Verify the error message\*/

{

System.***out***.println("Have to enter minimum 2 characters in Code");

}

Thread.*sleep*(2000);

driver.findElement(By.*name*("code")).clear();

driver.findElement(By.*name*("code")).sendKeys("a2"); /\*a2 \*/

**if** (driver.getPageSource().contains("This field should follow pattern")) /\* Verify the error message\*/

{

System.***out***.println("Have to write only characters A-Z or/and 0-9 numbers in Code");

}

driver.findElement(By.*cssSelector*("button.btn.btn-default"))

.click(); /\* Cancel the Edit screen \*/

// @@@ Following is Negative Test Case for Staff @@@ //

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//span[text()='Entities']"))

.click(); /\* click Entities \*/

driver.findElement(By.*xpath*("//span[text()='Staff']"))

.click(); /\* click staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-primary"))

.click(); /\* Create a New Staff \*/

Thread.*sleep*(2000);

driver.findElement(By.*name*("name")).sendKeys("1"); /\* 1 \*/

**if** (driver.getPageSource().contains("This field should follow pattern")) /\* Verify the error message\*/

{

System.***out***.println("Have to enter characters of a-z or/and A-Z in Staffname");

}

driver.findElement(By.*name*("name")).clear();

Thread.*sleep*(2000);

driver.findElement(By.*name*("name")).sendKeys("12345"); /\* 12345 \*/

**if** (driver.getPageSource().contains("This field should follow pattern")) /\* Verify the error message\*/

{

System.***out***.println("Have to enter characters of a-z or/and A-Z in Staffname");

}

driver.findElement(By.*name*("name")).clear();

Thread.*sleep*(2000);

driver.findElement(By.*name*("name")).sendKeys("c2"); /\* c2 \*/

**if** (driver.getPageSource().contains("This field should follow pattern")) /\* Verify the error message\*/

{

System.***out***.println("Have to enter characters of a-z or/and A-Z in Staffname");

}

driver.findElement(By.*name*("name")).clear();

Thread.*sleep*(2000);

driver.findElement(By.*name*("name")).sendKeys("T5"); /\* T5 \*/

**if** (driver.getPageSource().contains("This field should follow pattern")) /\* Verify the error message\*/

{

System.***out***.println("Have to enter characters of a-z or/and A-Z in Staffname");

}

driver.findElement(By.*cssSelector*("button.btn.btn-default"))

.click(); /\* Cancel the Edit screen \*/

// @@@ Following is Test Case to Log Out @@@ //

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//span[text()='Account']"))

.click(); /\* Click on Account \*/

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//span[text()='Log out']"))

.click(); /\* Click on Log out \*/

Thread.*sleep*(8000);

String LogOut\_Text = (driver.findElement(By.*xpath*("//a[@href='#/login']")).getText());

**if** (driver.getPageSource()

.contains(LogOut\_Text)) /\* Verify user is logged out \*/

{

System.***out***.println("User is Logged Out");

*assertTrue*(**true**);

}

**else** {

System.***out***.println("User is not Logged Out");

}

// @@@ Following is Test Case to Register a new account @@@ //

Thread.*sleep*(3000);

driver.findElement(By.*linkText*("Register a new account"))

.click();/\* Click on "Register a new account \*/

driver.findElement(By.*name*("login")).clear();

Thread.*sleep*(2000);

driver.findElement(By.*name*("login"))

.sendKeys("test"); /\* Enter Login name \*/

driver.findElement(By.*name*("email")).clear();

Thread.*sleep*(2000);

driver.findElement(By.*name*("email"))

.sendKeys("Test@gmail.com"); /\* Enter email \*/

Thread.*sleep*(2000);

driver.findElement(By.*name*("password"))

.sendKeys("Test1!2@"); /\* Enter password \*/

Thread.*sleep*(2000);

driver.findElement(By.*name*("confirmPassword"))

.sendKeys("Test1!2@"); /\* Enter confirm password \*/

Thread.*sleep*(2000);

driver.findElement(By.*cssSelector*("button.btn.btn-primary.ng-scope"))

.click(); /\* Enter Register button \*/

System.***out***.println("Registration failed! Please try again later.");

// // @@@ Following is Test Case for pagination in Staff screen @@@ //

//

// Thread.sleep(2000);

//

// driver.findElement(By.xpath("//span[text()='Entities']")).click(); /\*

// Click Entities \*/

// driver.findElement(By.xpath("//span[text()='Staff']")).click(); /\*

// Click Staff \*/

//

// Thread.sleep(3000);

//

// driver.findElement(By.linkText(">")).click();/\* Click on Next page

// link \*/

//

// System.out.println("Next page of Staff screen is displayed");

//

// Thread.sleep(2000);

//

// driver.findElement(By.linkText("<")).click();/\* Click on Previous

// page link \*/

//

// System.out.println("Previous page of Staff screen is displayed");

// Thread.sleep(2000);

//

// driver.findElement(By.linkText(">>")).click();/\* Click on Last page

// link \*/

//

// System.out.println("Last page of Staff screen is displayed");

// Thread.sleep(2000);

//

// driver.findElement(By.linkText("<<")).click();/\* Click on First page

// link \*/

//

// System.out.println("First page of Staff screen is displayed");

}

}