

## PHASE\_END\_PROJECT

### Aim:

To automate functionalities on the starhealth.in website using Selenium WebDriver in cucumber

Description:

### 1. Create a TestNG XML File:

Create a TestNG XML file, testng.xml, in your project's root directory. Define two test cases: starhealth001 and starhealth002.

### 2. Create Java TestNG Test Classes:

Create two TestNG test classes, StarHealthTest1 and StarHealthTest2, and implement the test steps. Use the Page Object Model and TestNG assertions as required.

### 3. Configure Code in Git:

Ensure your code is committed and pushed to your Git repository.

### 4. Configure Jenkins:

To configure Jenkins to run your project, follow these steps:

Install Jenkins on your server.

Create a new Jenkins job:

Go to your Jenkins dashboard.

Click on "New Item."

Enter a job name, select "Freestyle project," and click "OK."

Configure your job:

In the job configuration, go to the "Source

**Source Code:****package steps;**

```
import java.util.List;
```

```
import java.util.Map;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.SearchContext;
```

```
import org.openqa.selenium.WebElement;
```

```
import org.openqa.selenium.chrome.ChromeDriver;
```

```
import org.openqa.selenium.remote.RemoteWebDriver;
```

```
import io.cucumber.java.PendingException;
```

```
import io.cucumber.datatable.DataTable;
```

```
import io.cucumber.java.en.Given;
```

```
import io.cucumber.java.en.Then;
```

```
import io.cucumber.java.en.When;
```

```
public class StarthealthPage {
```

```
    @Given("User open the chrome browser and starhealth application")
```

```
    public void user_open_the_chrome_browser_and_starhealth_application() throws  
        InterruptedException {
```

```

        ChromeDriver driver = new ChromeDriver();

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

        driver.get("https://www.starhealth.in/lp/health-
insurance/?utm_source=bing&utm_campaign=Brand_Star_Health_Phrase_Desktop&msclkid=58c7d3
08a5f0154bcda7b63f9b603f33");

        Thread.sleep(1500);

    }

```

```

    @When("User waits for the Welcome to Star Health pop-up and closes it")

    public void user_waits_for_the_welcome_to_star_health_pop_up_and_closes_it() {

        // Write code here that turns the phrase above into concrete actions

        ChromeDriver driver = new ChromeDriver();

        driver.get("https://www.starhealth.in/lp/health-
insurance/?utm_source=bing&utm_campaign=Brand_Star_Health_Phrase_Desktop&msclkid=58c7d3
08a5f0154bcda7b63f9b603f33");

```

```

        driver.findElement(By.xpath("//input[@id='name']")).sendKeys("hinduja");

        driver.findElement(By.xpath("//input[@id='pinCode']")).sendKeys("237459343");

        driver.findElement(By.xpath("//input[@id='phoneNumber']")).sendKeys("8056853042");

        driver.findElement(By.xpath("//button[@class='MuiButtonBase-root MuiButton-root
MuiButton-contained MuiButton-containedPrimary MuiButton-sizeMedium MuiButton-
containedSizeMedium MuiButton-disableElevation MuiButton-root MuiButton-contained

```

```
MuiButton-containedPrimary MuiButton-sizeMedium MuiButton-containedSizeMedium MuiButton-  
disableElevation w-full css-1x0t9te']")).click();
```

```
driver.findElement(By.xpath("//input[@id='r4:']"));
```

```
driver.findElement(By.xpath("//input[@id='email']")).sendKeys("hfdfn@gmail.com");
```

```
driver.findElement(By.xpath("//button[@class='MuiButtonBase-root  
MuiButton-root MuiButton-contained-lg MuiButton-contained-lgPrimary MuiButton-sizeLarge  
MuiButton-contained-lgSizeLarge MuiButton-root MuiButton-contained-lg MuiButton-contained-  
lgPrimary MuiButton-sizeLarge MuiButton-contained-lgSizeLarge css-a0vww4']")).click();
```

```
throw new io.cucumber.java.PendingException();
```

```
}
```

```
private Object By_xpath(String string) {
```

```
    // TODO Auto-generated method stub
```

```
    return null;
```

```
}
```

```
@Then("validates the Star Health home page title using a JUnit assertion")
```

```
public void validates_the_star_health_home_page_title_using_a_j_unit_assertion() {
```

```
    ChromeDriver driver = new ChromeDriver();
```

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

```
    driver.get("https://www.starhealth.in/buy-now/health/buy-online/insureDetails/");
```

```
    // Write code here that turns the phrase above into concrete actions
```

```
    throw new io.cucumber.java.PendingException();
```

```
}
```

```
@Then("clicks on the Buy Now button")
```

```
public void clicks_on_the_buy_now_button() {
```

```

        By driver = null;

        driver.findElement((SearchContext) By.xpath("//button[ @class='MuiButtonBase-root MuiButton-root MuiButton-contained-lg MuiButton-contained-lgPrimary MuiButton-sizeLarge MuiButton-contained-lgSizeLarge MuiButton-root MuiButton-contained-lg MuiButton-contained-lgPrimary MuiButton-sizeLarge MuiButton-contained-lgSizeLarge css-a0vww4']")).click();

        throw new io.cucumber.java.PendingException();
    }

    @Then("User enters following details")

    public void user_enters_following_details(DataTable datatable) {

        // fetches the entire data table

        List<Map<String, String>> userList = datatable.asMaps(String.class,
String.class);

        // Now iterate over each row of the data table and get the value based on the
columnname(key)

        //| URL | FullName | PhNo | PIN | OptionPlan |

        for(Map<String, String> e : userList) {

            By driver = null;

            driver.findElement((SearchContext)
By.xpath("//input[ @id='name']")).sendKeys("353454646");

            System.out.println(e);

            ChromeDriver driver1 = new ChromeDriver();

            driver1.findElement(By.xpath(
"//div[ @class='cdx-text-input']/descendant::input[1])[1]")).clear();

            driver1.findElement(By.xpath(
"//div[ @class='cdx-text-input']/descendant::input[1])[1]"))
.sendKeys(e.get("URL")); driver1.findElement(By.xpath(

```

```

        "(/div[@class='cdx-text-input']/descendant::input[1])[2]")).clear();

        driver1.findElement(By.xpath(
            "(/div[@class='cdx-text-input']/descendant::input[1])[2]"))
            .sendKeys(e.get("FullName")); driver1.findElement(By.xpath(
            "(/div[@class='cdx-text-input']/descendant::input[1])[2]")).clear();

        driver1.findElement(By.xpath(
            "(/div[@class='cdx-text-input']/descendant::input[1])[3]"))
            .sendKeys(e.get("PhNo")); driver1.findElement(By.xpath(
            "(/div[@class='cdx-text-input']/descendant::input[1])[2]")).clear();

        driver1.findElement(By.xpath(
            "(/div[@class='cdx-text-input']/descendant::input[1])[4]"))
            .sendKeys(e.get("PIN"));

```

```

        driver1.findElement(By.xpath(
            "(/div[@class='cdx-text-input']/descendant::input[1])[2]")).clear();

        driver1.findElement(By.xpath(
            "(/div[@class='cdx-text-input']/descendant::input[1])[4]"))
            .sendKeys(e.get("OptionPlan"));

```

```

    }

```

```

}

```

```

@Then("User clicks on I need health insurance from the drop-down menu and select plan")

public void
user_clicks_on_i_need_health_insurance_from_the_drop_down_menu_and_select_plan() {

    ChromeDriver driver = new ChromeDriver();

    // Write code here that turns the phrase above into concrete actions

    driver.findElement(By.xpath("///input[@id='r4:']"));

    throw new io.cucumber.java.PendingException();

}

@Then("User click on the Plan for My Family page")

public void user_click_on_the_plan_for_my_family_page() {

    // Write code here that turns the phrase above into concrete actions

    throw new io.cucumber.java.PendingException();

}

@Then("Validate the user mobile number")

public void validate_the_user_mobile_number() {

    ChromeDriver driver = new ChromeDriver();

    driver.findElement(By.xpath("//input[@id='phoneNumber']")).sendKeys("8056853042");

    // Write code here that turns the phrase above into concrete actions

    throw new io.cucumber.java.PendingException();

}

```

```
@Then("User clicks on the Star Health logo")
```

```
public void user_clicks_on_the_star_health_logo() {
```

```
    By driver = null;
```

```
        driver.findElement((SearchContext) By.xpath("//button[ @class='MuiButtonBase-root MuiButton-root MuiButton-contained-lg MuiButton-contained-lgPrimary MuiButton-sizeLarge MuiButton-contained-lgSizeLarge MuiButton-root MuiButton-contained-lg MuiButton-contained-lgPrimary MuiButton-sizeLarge MuiButton-contained-lgSizeLarge css-a0vww4']")).click();
```

```
    // Write code here that turns the phrase above into concrete actions
```

```
    throw new io.cucumber.java.PendingException();
```

```
}
```

```
@Then("Close all the browsers")
```

```
public void close_all_the_browsers() {
```

```
    RemoteWebDriver driver = null;
```

```
        driver.close();
```

```
    // Write code here that turns the phrase above into concrete actions
```

```
    throw new io.cucumber.java.PendingException();
```

```
}
```

```
}
```

### **Features defenitions:**

Feature: Phase End project

Scenario: Star health home page test



Given User open the chrome browser and starhealth application

When User waits for the Welcome to Star Health pop-up and closes it

Then validates the Star Health home page title using a JUnit assertion

Then clicks on the Buy Now button

And User enters following details

| URL | FullName | PhNo | PIN | OptionPlan |

| admin | admin@123 | 353453 | 12345 | plan1 |

| maya | admin@123 | 53564 | 12356 | plan2 |

And User clicks on I need health insurance from the drop-down menu and select plan

Then User click on the Plan for My Family page

And Validate the user mobile number

And User clicks on the Star Health logo

And Close all the browsers

### **Source code for test runner:**

```
package runner;

import org.junit.runner.RunWith;

import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;
```

```

@RunWith(Cucumber.class)

@CucumberOptions(
    features = "C:\\Users\\sonal\\Workspace2-git\\PhaseEndProject-
Cucumber\\src\\test\\java\\features\\\\wikipage.feature",
    glue = {"steps"},
    dryRun = false,
    plugin = {"pretty",
              "html:target/myreport2.html",
              "com.aventstack.extentreports.cucumber.adapter.ExtentCucumberAdapter:"},
              "timeline:test-output-thread/"

    },

    monochrome = true, // console output will be in more readable format
    tags = "@login"

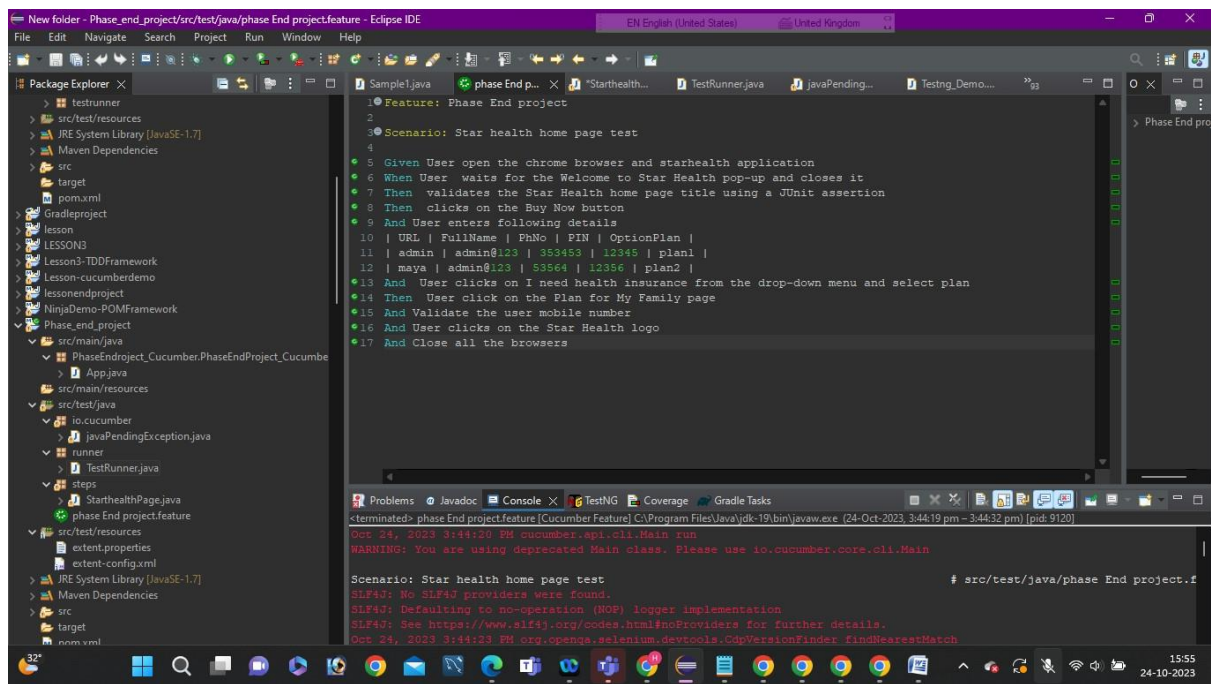
)

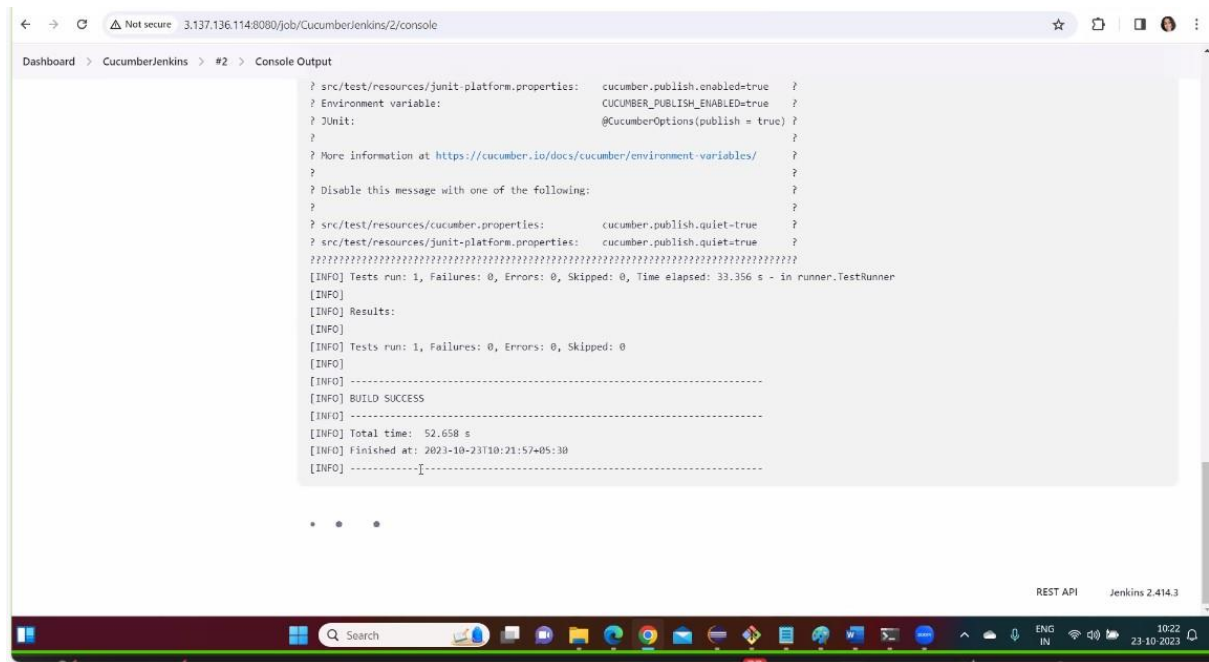
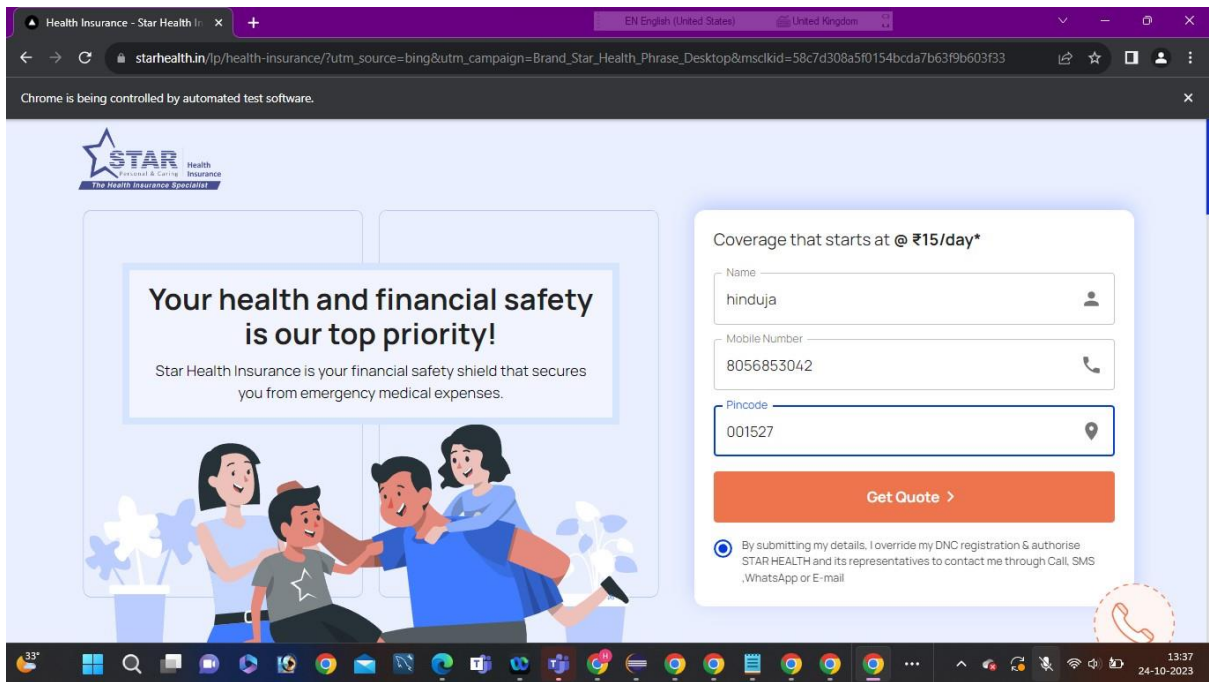
public class TestRunner {

}

```

Screen shot:





**Aim:**

To automate functionalities on the starhealth.in website using Selenium WebDriver in TestNG

Description:

**1. Create a TestNG XML file, "testng.xml"**

Create a "testng.xml" file in your Maven project's root directory. This file defines your TestNG suite and the two test cases, "starhealth001" and "starhealth002":xml

**2. Create Java TestNG Test Classes**

Create two Java classes for your TestNG tests.

Test 1: StarHealthTest1.java

This class will implement the test steps described in your requirements.

**Run TestNG Test Using Maven****Source code:**

```
package project;

import static org.testng.Assert.assertEquals;
import static org.testng.Assert.assertTrue;


import java.io.IOException;


import org.apache.poi.EncryptedDocumentException;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.DataProvider;
import org.testng.annotations.Parameters;
import org.testng.annotations.Test;
```

```
import org.testng.Assert;
```

```
public class StarHealthPage {
```

```
    WebDriver driver;
```

```
    @BeforeClass
```

```
    public void openBrowser()
```

```
    {
```

```
        driver = new ChromeDriver();
```

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

```
        driver.get("https://www.starhealth.in/");
```

```
    }
```

```
    @Test(priority='1')
```

```
    public void Validate_title()
```

```
    {
```

```
        System.out.println("The title of the page");
```

```
        String ExpectedTitle = "Star";
```

```
        String ActualTitle = "Star"; // replace it with selenium code
```

```
        assertEquals(ActualTitle, ExpectedTitle , "The title is not valid");
```

```
    }
```

```
    @Parameters({ "name", "mobile", "email" })
```

```
    @Test(priority='2')
```

```
    public void Test_Header_plan(String name, String mobile, String email)
```

```
    {
```

```

        System.out.println("open the page");

        System.out.println("login he page");

        System.out.println("select");

        // boolean selection = driver.findElement(By.("locatorvalue")).isSelected();

        Assert.assertTrue(true); // check if the Authorize checkbox is slected or not

        driver.findElement(By.xpath("//input[@id='pinCode']")).sendKeys("237459343");

        driver.findElement(By.xpath("//input[@id='phoneNumber']")).sendKeys("8056853042");

        driver.findElement(By.xpath("//button[@class='MuiButtonBase-root MuiButton-root MuiButton-contained MuiButton-containedPrimary MuiButton-sizeMedium MuiButton-containedSizeMedium MuiButton-disableElevation MuiButton-root MuiButton-contained MuiButton-containedPrimary MuiButton-sizeMedium MuiButton-containedSizeMedium MuiButton-disableElevation w-full css-1x0t9te']")).click();

        driver.findElement(By.xpath("//input[@id='r4:']"));

        driver.findElement(By.xpath("//input[@id='email']")).sendKeys("hfidfn@gmail.com");

        driver.findElement(By.xpath("//button[@class='MuiButtonBase-root MuiButton-root MuiButton-contained-lg MuiButton-contained-lgPrimary MuiButton-sizeLarge MuiButton-contained-lgSizeLarge MuiButton-root MuiButton-contained-lg MuiButton-contained-lgPrimary MuiButton-sizeLarge MuiButton-contained-lgSizeLarge css-a0vvw4']")).click();

    }

    @Test(priority='3',dataProvider = "testdata" )

    public void validatedatafromExcel(String input1, String input2, String input3, String input4 )

    {

        // String youtube = driver.findElement(By.locator)).getAttribute(href);

        String ActaulDetails1 = driver.findElement(By.xpath("//a[@class='mr-4 mr-10-xs']")[2])).getAttribute("href");

        System.out.println("write code to fetch the social media details for twitter");

        String Expecteddetail1 = input1;

        Assert.assertEquals(ActaulDetails1,Expecteddetail1);

```

```
        //if(ActaulDetails1.contains(Expecteddetail1))

        System.out.println("write code to fetch the social media details for twitter");

    }
}
```

```
@DataProvider(name="testdata")

public Object[][] datasupplier() throws EncryptedDocumentException, IOException

{

    Object[][] inputdata = XLS_DataProvider.getTestData("Sheet2");

    return inputdata;

}
}
```

```
@Test(priority='4')

public void Clickontwitter()

{

    System.out.println("Inspect twitter link and click on it");

    System.out.println("Validate title of the page");

}
}
```

```
@AfterClass

public void teardown()
```



```

        {

            driver.close();

        }

    }

```

### **Source code:2**

```

package project;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;

public class Starhealth002 {

    @Test

    public void print_link()

    {

        WebDriver driver = new ChromeDriver();

        String link1= driver.findElement(By.linkText("Glossary")).getText();

    }

}

```

### **Source code for Runner:**

```

<suite name="testsuite2" verbose="1" parallel="tests">

<test name="starhealth001">

<parameter name="name" value="admin"/>

```

<parameter name="mobile" value="535354646"/>

<parameter name="email" value="admin2123@gmail.com"/>

<classes>

<class name="project.StartHealthPage">

</class>

</classes>

</test>

<test name="starhealth002">

<classes>

<class name="project.Starhealth002">

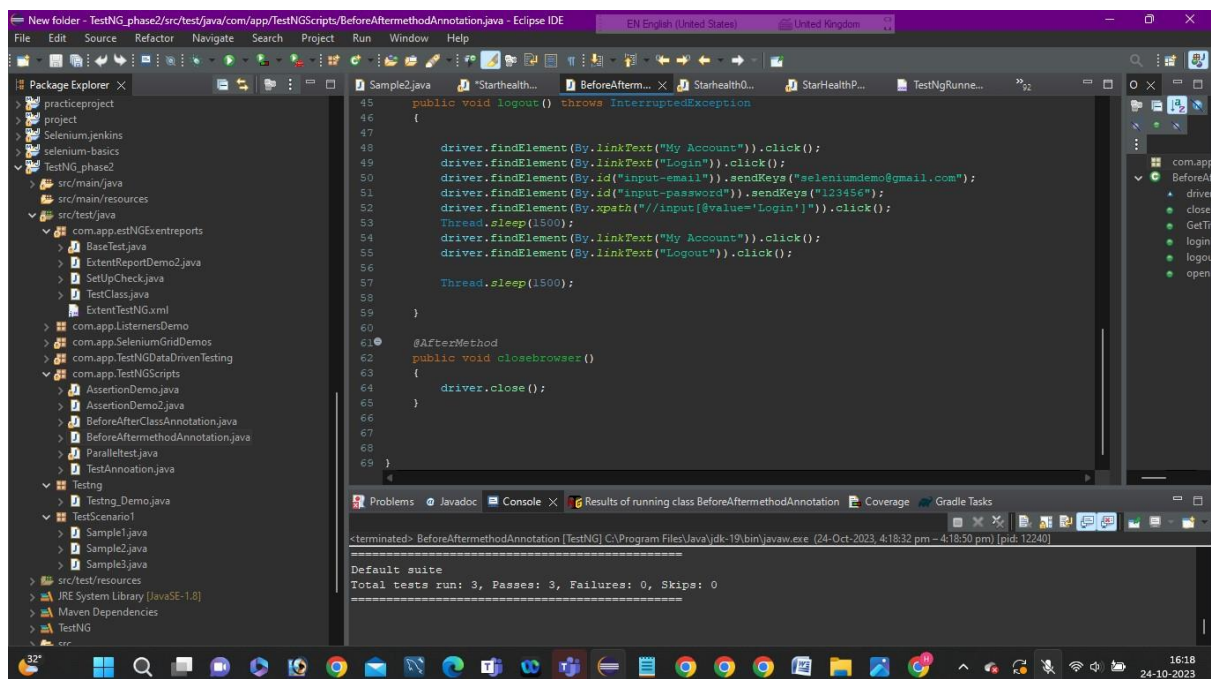
</class>

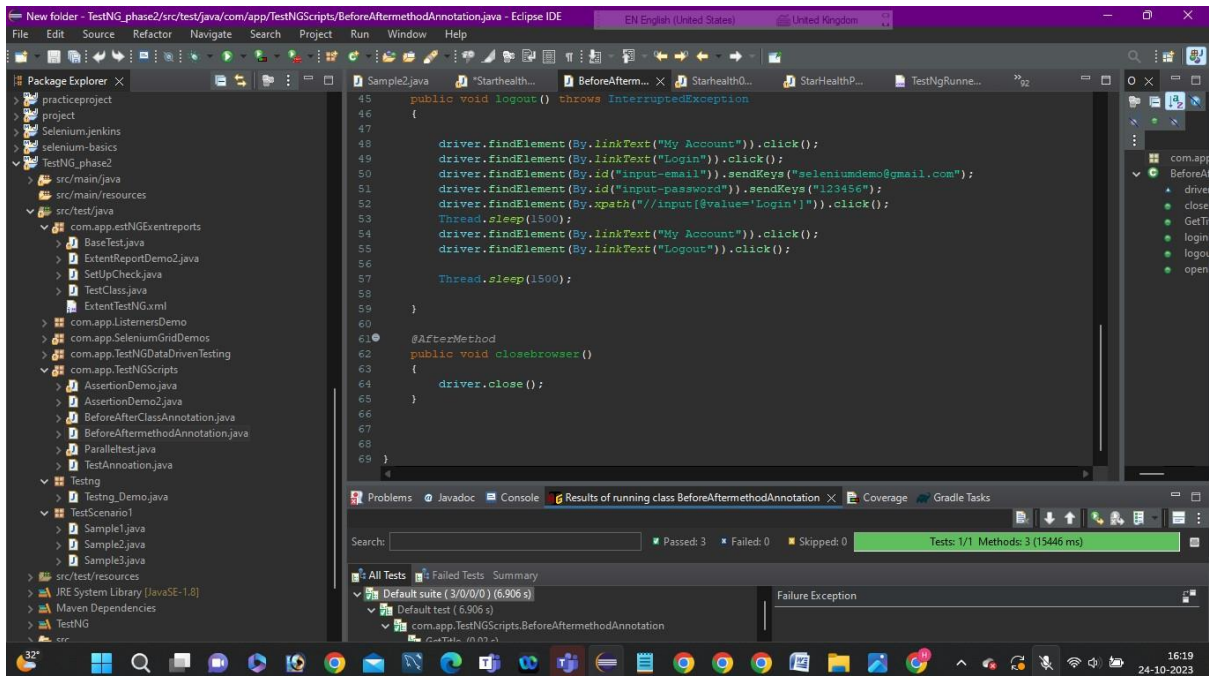
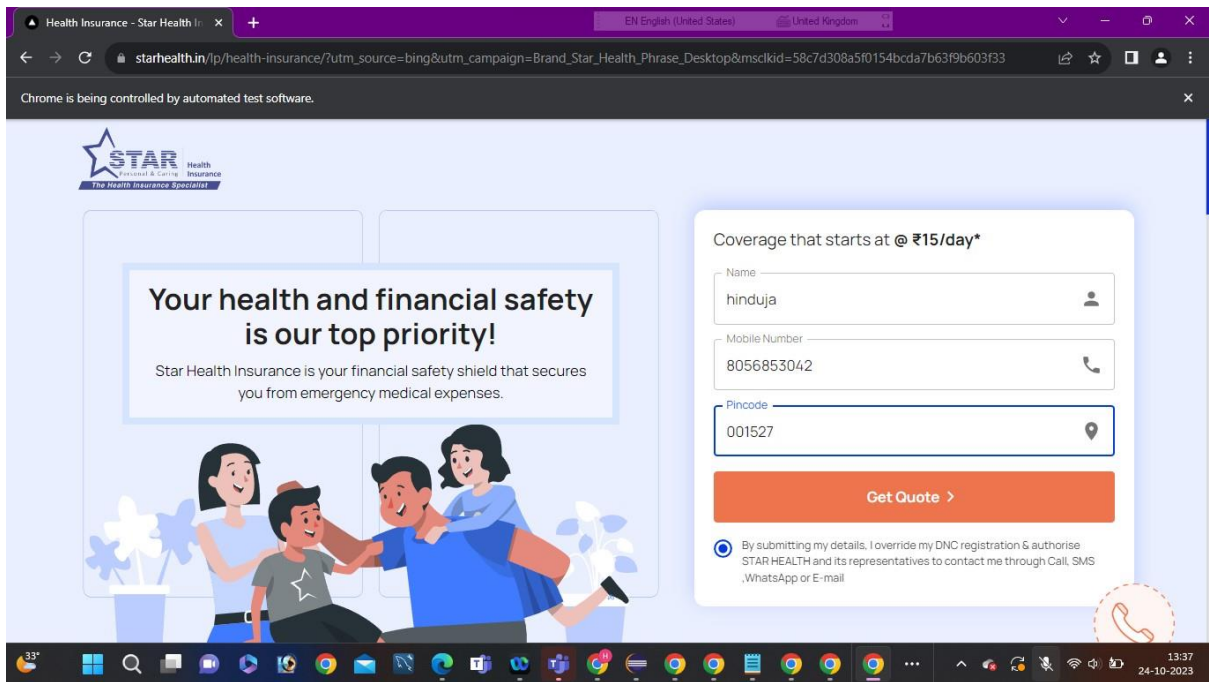
</classes>


</test>

</suite>





## Screen shot:





 Jenkins

Search (CTRL+K)

 admin  log out

Dashboard >

+ New Item

People

Build History

Manage Jenkins

My Views

Build Queue










Build Executor Status

No builds in the queue.

1 idle

2 idle

All +

S	W	Name ↓	Last Success	Last Failure	Last Duration
		<a href="#">Artifactory</a>	N/A	10 days #1	3.6 sec 
		<a href="#">CodeCoverage</a>	5 days 22 hr #1	N/A	1 min 3 sec 
		<a href="#">Job1</a>	12 days #4	12 days #1	29 sec 

Icon: S M L

Icon legend

Atom feed for all

Atom feed for failures

Atom feed for just latest builds

REST API Jenkins 2.414.2