Name :

RAMYA P M

practice project1: using POM

Create a mavenproject>basepackage>baseclass

package com.app.redbus.base;

import java.awt.Desktop;

import java.io.File;

import java.io.IOException;

import java.lang.reflect.Method;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.testng.ITestContext;

import org.testng.ITestResult;

import org.testng.annotations.AfterMethod;

import org.testng.annotations.AfterSuite;

import org.testng.annotations.BeforeSuite;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

import com.aventstack.extentreports.ExtentReports;

import com.aventstack.extentreports.ExtentTest;

import com.aventstack.extentreports.reporter.ExtentSparkReporter;

public class BaseTest {

```java
// Base class indicates the driver session and Application details

// this base class will be called in every test class


public static WebDriver driver;

public static ExtentReports extentreports;

public static ExtentTest extentTest;


public static void openBrowser()

{
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\Google\\Chrome\\Application\\chromedriver.exe");

    driver = new ChromeDriver();


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

        driver.get("https://www.yatra.com/");

}


@BeforeTest
public void getnameMethod(ITestContext context)

{
        extentTest=    extentreports.createTest(context.getName());

}


@BeforeSuite // this method will be excuted before suite begins its execution

public void InitalizeExtentReport()

{
        ExtentSparkReporter sparkreporter = new ExtentSparkReporter("reportpom.html");

        extentreports = new ExtentReports();
```

```java
                        extentreports.attachReporter(sparkreporter);

                        // on the report display more information about OS, browser, java etc

                        extentreports.setSystemInfo("OS", System.getProperty("os.name"));

                        extentreports.setSystemInfo("JAVA",
System.getProperty("java.version"));


            }


            @AfterSuite

            public void generateReports() throws IOException

            {

                        extentreports.flush();

                        Desktop.getDesktop().browse(new  File("reportpom.html").toURI());

            }




            @AfterMethod

            public void generateTestStatus(Method m,ITestResult result)

            {

                        if(result.getStatus() == ITestResult.FAILURE )

                        {

                                    System.out.println("Capture Screenshot");

                                    extentTest.fail(result.getThrowable());

                        }

                        else if (result.getStatus() == ITestResult.SUCCESS) {

                                    extentTest.pass(m.getName() + " is passed");

                        }

            }


}
```

Create pages package>homepageclass:

```java
package com.redbus.pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import  org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class HomePage  {


	// Create PageFactory
	// this code will find the element using xpath locator and store it in
webelement object myaccount

	@FindBy(xpath = "//input[@id='src']")
	WebElement fromLocation;

	@FindBy(xpath = "//input[@id='dest']")
	WebElement destination;

	@FindBy(xpath="//div[@id='onwardCal']")
	WebElement inputDate;

	@FindBy(xpath="//span[text()='13']")
	WebElement selectDate;

	@FindBy(xpath="//button[@id='search_button']")
	WebElement search;




	// create constructor of current class to initaiate the elements
	// every page class will ahve a constructor initiating the elements

	public HomePage(WebDriver driver) {

		PageFactory.initElements(driver, this);
		// driver can now work with your elements and methods of this class

	}


	// We will now write action methods, that will perform action on these
elements
	//but these methods will not be executed here.

	public void gettitle(WebDriver driver)
	{
		String title = driver.getTitle();
		System.out.println(title);

	}

	public void fromLocation(String locationName) throws InterruptedException {
		fromLocation.sendKeys(locationName);
		Thread.sleep(1000);
```

```java
        }


        public void toLocation(String destName) throws InterruptedException {
                destination.sendKeys(destName);
                Thread.sleep(1000);
        }


        public void selectDate() throws InterruptedException {
                inputDate.click();
                Thread.sleep(1000);
                selectDate.click();
        }


        public void search() {
                search.click();
        }


}
```
Create Testpackage> Basetest

```java
public static ExtentTest extentTest;

        public static void openBrowser(String browser)
                {
                        System.setProperty("webdriver.chrome.driver", "C:\\Program
Files\\Google\\Chrome\\Application\\chromedriver.exe");
                        driver = new ChromeDriver();

                        driver.manage().window().maximize();
                        driver.get("https://redbus.com/");
                }

        @BeforeTest
        public void getnameMethod(ITestContext context)
        {
                extentTest= extentreports.createTest(context.getName());
        }

        @BeforeSuite  // this method will be excuted before suite begins its
execution
        public void InitalizeExtentReport()
        {
                ExtentSparkReporter sparkreporter = new
ExtentSparkReporter("report.html");
                extentreports = new ExtentReports();
                extentreports.attachReporter(sparkreporter);
                // on the report display more information about OS, browser, java
etc
                extentreports.setSystemInfo("OS",   System.getProperty("os.name"));
                extentreports.setSystemInfo("JAVA",
System.getProperty("java.version"));


        }
```

```java
@AfterSuite
public void generateReports() throws IOException
{
        extentreports.flush();
        Desktop.getDesktop().browse(new   File("report.html").toURI());
}


@AfterMethod
public void generateTestStatus(Method m,ITestResult result)
{
        if(result.getStatus() == ITestResult.FAILURE )
        {
                System.out.println("Capture Screenshot");
                extentTest.fail(result.getThrowable());
        }
        else if (result.getStatus() == ITestResult.SUCCESS) {
                extentTest.pass(m.getName() + " is passed");
        }
}
}
```

Create>hometest:

```java
package com.redbus.testpages;

import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

import com.redbus.base.BaseTest;
import com.redbus.pages.HomePage;

public class HomePageTest extends BaseTest {


        @BeforeTest
        public void test() {

                openBrowser("Firefox");

        }

        @Test
        public void Home_Page_Test() throws InterruptedException {
                HomePage homepg=new HomePage(driver);
                driver.get("https://www.redbus.in/");
                Thread.sleep(1000);
                homepg.gettitle(driver);
                homepg.fromLocation("Pune");
                homepg.toLocation("Bangalore");
                homepg.selectDate();
                homepg.search();
        }
}
```

Create>xml file:

```xml
<suite name="test">
<test name="TestHomePage">
<classes>
<class   name="com.redbus.testpages.HomePageTest"></class>
```

```xml
<class name="com.redbus.base.BaseTest"></class>

</classes>
</test>
</suite>
```

In order to run the pom file should be as ;

```xml
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>RedbusPOMFramework</groupId>
  <artifactId>RedbusPOMFramework</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <dependencies>

  <!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java --
>
<dependency>
    <groupId>org.seleniumhq.selenium</groupId>
    <artifactId>selenium-java</artifactId>
    <version>4.12.1</version>
</dependency>

<dependency>
    <groupId>io.github.bonigarcia</groupId>
    <artifactId>webdrivermanager</artifactId>
    <version>5.4.1</version>
</dependency>

<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
    <groupId>org.testng</groupId>
    <artifactId>testng</artifactId>
    <version>7.7.1</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/com.aventstack/extentreports -->
<dependency>
    <groupId>com.aventstack</groupId>
    <artifactId>extentreports</artifactId>
    <version>5.0.9</version>
</dependency>

<!-- https://mvnrepository.com/artifact/org.apache.poi/poi -->
<dependency>
    <groupId>org.apache.poi</groupId>
    <artifactId>poi</artifactId>
    <version>4.1.1</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.apache.poi/poi-ooxml -->
<dependency>
    <groupId>org.apache.poi</groupId>
    <artifactId>poi-ooxml</artifactId>
    <version>4.1.1</version>
</dependency>
```

```xml
<!-- https://mvnrepository.com/artifact/org.apache.poi/poi-ooxml-schemas -->
<dependency>

    <groupId>org.apache.poi</groupId>
    <artifactId>poi-ooxml-schemas</artifactId>
    <version>4.1.1</version>
</dependency>


</dependencies>

</project>
```
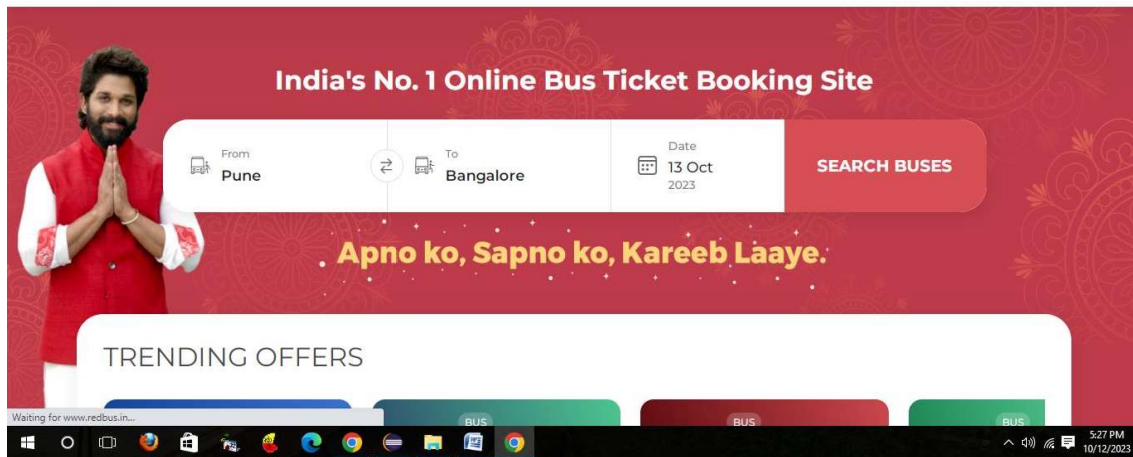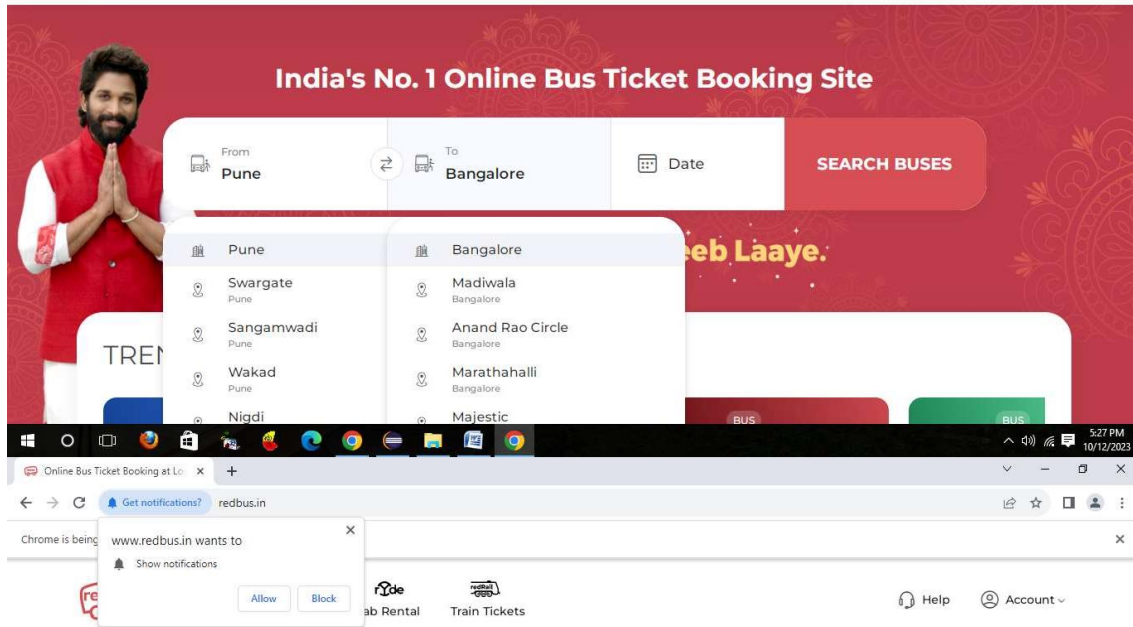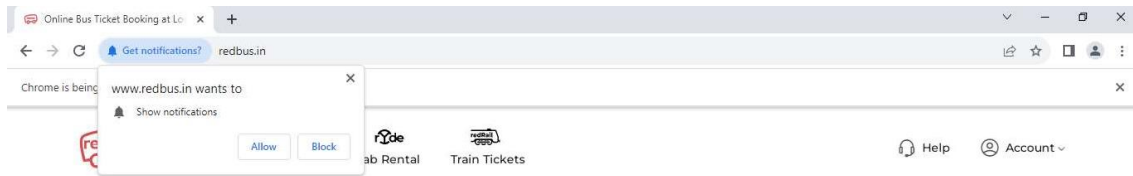
OUTPUTS:
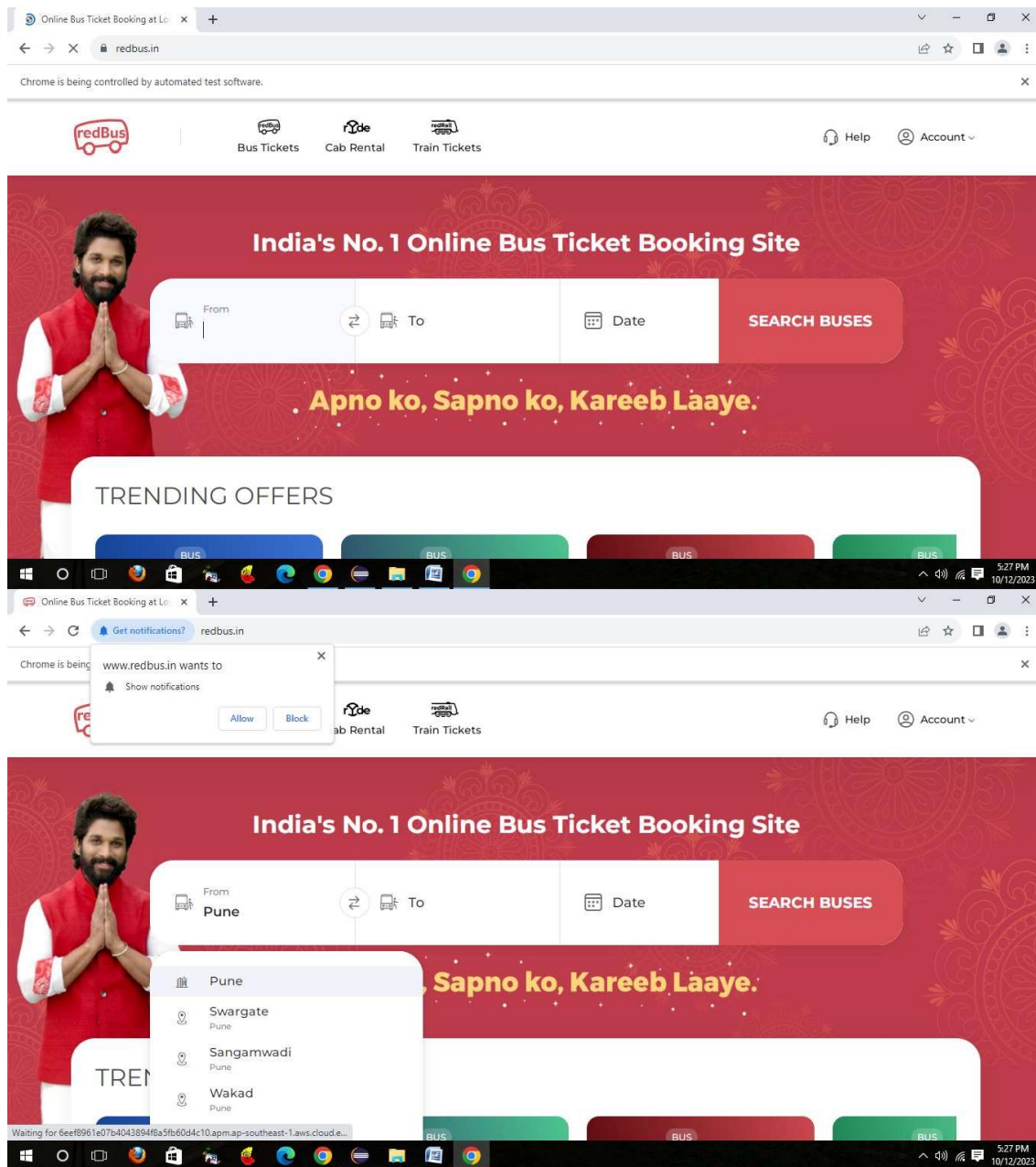
Pune to Bangalore Bus Tickets

redbus.in/bus-tickets/pune-to-bangalore?fromCityName=Pune&fromCityId=130&srcCountry=IND&toCityName=Bangalore&toCityId=122&destCountry=IND&onward...

Chrome is being controlled by automated test software.

redBus   BUS TICKETS   rYde New   redRail New   Help   Manage Booking

Home > Bus Tickets > Pune To Bangalore Bus >

Pune to Bangalore Bus

Pune → Bangalore < 13 Oct > Modify
Fri

FILTERS

Live Tracking (61)

DEPARTURE TIME

Before 6 am (3)

6 am to 12 pm (3)

12 pm to 6 pm (19)

After 6 pm (39)

BUS TYPES

SEATER (13)

SLEEPER (60)

Orange Tours And Travels
Safe, Secure & Comfortable Journey

FlexiTicket
FREE DATE CHANGE
Min 50% refund if you cancel

redDeal
RETURN TRIP OFFER
Min 10% off on booking return tickets

redDeal
TRIAL OFFERS
From operators you haven't tried before

64 Buses found   SORT BY: Departure   Duration   Arrival   Ratings   Fare   Seats Available

Sharma Transports   **17:15**   15h 15m   **08:30**   ★3.6   INR **1600**   21 Seats available

Volvo 9600 Multi-Axle A/C Sleeper (2+1)   Wakad   14-Oct   👥 497   10 Window   Kalasipalyam

Live Tracking   VIEW SEATS

Waiting for s3.rdbuz.com...

5:27 PM 10/12/2023

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finalwork - RedbusPOMFramework/src/test/resources/testNg.xml - Eclipse IDE

File Edit Navigate Search Project Run Design Window Help

Quick Access

Package Explorer
- AntDemo [Desktop master]
- ATE-Phase2 [Desktop master]
- Lesson3TDD [Desktop master]
- NinjaDemo-POMFramework [Desktop master]
  - src/main/java
  - src/main/resources
  - src/test/java
    - com.redbus.qa.Base
      - TestBase.java
    - com.redbus.qa.Pages
      - HomePage.java
      - ProductPage.java
      - RegisterPage.java
      - SearchPage.java
    - com.redbus.qa.Reports
    - com.redbus.qa.TestNgXmls
    - com.redbus.qa.TestPages
    - com.redbus.qa.Utilities
  - src/test/resources
    - TestNgRunner.xml
  - JRE System Library [JavaSE-1.6]
  - Maven Dependencies
  - TestNG
  - src
  - target
  - test-output
  - pom.xml
  - reportpom.html
- phase1 [phase1 master]
- RedbusPOMFramework [Desktop master]
  - src/main/java
  - src/main/resources
  - src/test/java

BaseTest.java   TestBase.java   HomePageTes...   HomePage.java   testNg.xml

```
1 <suite name="test">
2 <test name="TestHomePage">
3 <classes>
4 <class name="com.redbus.testpages.HomePageTest"></class>
5 <class name="com.redbus.base.BaseTest"></class>
6
7 </classes>
8 </test>
9 </suite>
10
```

Design Source

Task List
Find   All   Activate...

Outline
- suite name=test
  - test name=TestHomePage
    - classes
      - class name=com.redbus.testp...
      - class name=com.redbus.base...

Problems Javadoc Declaration Console Progress Results of running suite

```
<terminated> RedbusPOMFramework_src.test.resources.testNg.xml [TestNG] C:\Program Files\Java\bin\javaw.exe (Oct 12, 2023, 5:25:12 PM)
[RemoteTestNG] detected TestNG version 7.7.1
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Oct 12, 2023 5:25:53 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 117, so returning the closest version found: 116
Online Bus Ticket Booking at Low Price and Best Offers - redBus

===============================================
test
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================
```

5:28 PM 10/12/2023

Package Explorer

- > AntDemo [Desktop master]
- > ATE-Phase2 [Desktop master]
- > Lesson3TDD [Desktop master]
- > NinjaDemo-POMFramework [Desktop master]
  - src/main/java
  - src/main/resources
  - > src/test/java
    - > com.redbus.qa.Base
      - > TestBase.java
    - > com.redbus.qa.Pages
      - > HomePage.java
      - > ProductPage.java
      - > RegisterPage.java
      - > SearchPage.java
    - com.redbus.qa.Reports
    - > com.redbus.qa.TestNgXmls
    - > com.redbus.qa.TestPages
    - > com.redbus.qa.Utilities
  - > src/test/resources
    - TestNgRunner.xml
  - > JRE System Library [JavaSE-1.6]
  - > Maven Dependencies
  - > TestNG
  - > src
  - > target
  - > test-output
  - pom.xml
  - reportpom.html
- > phase1 [phase1 master]
- > RedbusPOMFramework [Desktop master]
  - src/main/java
  - src/main/resources
  - > src/test/java

BaseTest.java   TestBase.java   HomePageTes...   HomePage.java   testNg.xml

```
1  <suite name="test">
2  <test name="TestHomePage">
3  <classes>
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6
7  </classes>
8  </test>
9  </suite>
10
```

Design   Source

Task List

Find   All   Activate...

Outline

- suite name=test
  - test name=TestHomePage
    - classes
      - class name=com.redbus.testp...
      - class name=com.redbus.base...

Problems   Javadoc   Declaration   Console   Progress   Results of running suite

Search: Passed: 1   Failed: 0   Skipped: 0   Tests: 1/1 Methods: 1 (137974 ms)

All Tests   Failed Tests   Summary

- test (1/0/0/0) (78.446 s)   Failure Exception
  - TestHomePage (78.446 s)
    - com.redbus.testpages.HomePageTest (78.446 s)
      - Home_Page_Test (78.446 s)

File   C:/Users/INDIA/Desktop/finalwork/RedbusPOMFramework/report.html

Oct 12, 2023 05:25:18 PM

Tests   TestHomePage

TestHomePage   10.12.2023 5:25:19 PM   10.12.2023 5:27:19 PM   00:02:00:601   #test-id=1
5:25:19 PM / 00:02:00:601   Pass

                                         STATUS   TIMESTAMP   DETAILS

                                         Pass   5:27:19 PM   Home_Page_Test is passed