

# Source Code:

## 1.Base Test:

```
package com.redbus.base;

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.Assert;
import org.testng.ITestContext;
import org.testng.ITestResult;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.AfterSuite;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.BeforeTest;
import java.awt.Desktop;
import com.aventstack.extentreports.ExtentReports;
import com.aventstack.extentreports.ExtentTest;
import com.aventstack.extentreports.reporter.ExtentSparkReporter;

public class BaseTest {

    public static WebDriver driver;

    public static ExtentReports extentreports;

    public static ExtentTest extentTest;
```

```

public static void openBrowser(String browser) {

    if (browser.equals("Chrome")) {

        driver = new ChromeDriver();

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

        Assert.assertTrue(true);

    }

    else if (browser.equals("Firefox")) {

        driver = new FirefoxDriver();

        Assert.assertTrue(true);

    }

    else {

        System.out.println("Please Choose Chrome or Firefox Browser");

        Assert.assertTrue(false);

    }

}

```

@AfterTest

```

public static void closeBrowser() {

    System.out.println("Browser closed");

    driver.quit();

}

```

@BeforeTest

```

public void getNameMethod(ITestContext context)

{

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

```

```
}
```

```
@BeforeSuite
```

```
public void InitializeExtentReport()
```

```
{
```

```
    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"));
```

```
}
```

```
@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");
```

```

    }
}
}

```

## 2.Home Page: -

```

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 {

    @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;

    public HomePage(WebDriver driver) {
        PageFactory.initElements(driver, this);
    }

    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);

    }

    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();

    }

}
```

### 3.HomePage Test: -

```
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();

    }

}
```

## 4.POM 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 https://maven.apache.org/xsd/maven-
4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>

<groupId>Phase-2-Pratice-Project</groupId>

<artifactId>Phase-2-Pratice-Project</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>4.11.0</version>
</dependency>

<!-- https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager -->
<dependency>
<groupId>io.github.bonigarcia</groupId>
<artifactId>webdrivermanager</artifactId>
<version>5.4.0</version>
</dependency>

<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
<groupId>org.testng</groupId>
<artifactId>testng</artifactId>
<version>7.7.0</version>
<scope>test</scope>
</dependency>

<!-- https://mvnrepository.com/artifact/com.aventstack/extentreports -->
<dependency>
```

```
<artifactId>extentreports</artifactId>  
  
<groupId>com.aventstack</groupId>  
<version>5.0.9</version>  
</dependency>  
</dependencies>  
</project>
```

## 5.TestNg XML: -

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



