**SOURCE CODE:**

**TestBase:**

**package** redbusProject.Base;

**import** java.awt.Desktop;

**import** java.io.File;

**import** java.io.IOException;

**import** java.lang.reflect.Method;

**import** java.time.Duration;

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

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

**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** com.aventstack.extentreports.ExtentReports;

**import** com.aventstack.extentreports.ExtentTest;

**import** com.aventstack.extentreports.reporter.ExtentSparkReporter;

**public** **class** TestBase {

//Base class indicates the driver session and Application details

**public** **static** WebDriver *driver*;

**public** **static** ExtentReports *extentreports*;

**public** **static** ExtentTest *extentTest*;

**public** **static** **void** openBrowser(String browser) {

*driver* = **new** ChromeDriver();

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

*driver*.manage().timeouts().implicitlyWait(Duration.*ofSeconds*(5));

*driver*.get("https://www.redbus.in/");

}

@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("register\_user\_report1.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("register\_user\_report1.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");

}

}

}

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**Home page:**

**package** redbusProject.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 {

//WebDriver driver;

//create pagefactory

@FindBy(xpath = "//span[text()='Account']")

WebElement myaccount;

@FindBy(xpath = "//span[text()='Login/ Sign Up']")

WebElement signup;

@FindBy(id="cab\_rental\_vertical")

WebElement cabRental;

@FindBy(id="rail\_tickets\_vertical")

WebElement TrainTickets;

**public** Homepage(WebDriver driver) {

PageFactory.*initElements*(driver, **this**);

}

//Actions

**public** **void** clickOnMyAccount() {

myaccount.click();

}

**public** **void** clickOnSignup() {

signup.click();

}

**public** **void** clickOnCabRental() {

cabRental.click();

}

**public** **void** clickOntrainTicket() {

TrainTickets.click();

}

}

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**SearchBusPage:**

**package** redbusProject.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** SearchBusPage {

@FindBy(id = "src")

**private** WebElement fromLocation;

@FindBy(id = "dest")

**private** WebElement toLocation;

@FindBy(className = "dateText")

**private** WebElement date;

@FindBy(xpath = "(//span[normalize-space()='26'])")

**private** WebElement selectDate;

@FindBy(id = "search\_button")

**private** WebElement clickSearch;

**public** SearchBusPage(WebDriver driver) {

PageFactory.*initElements*(driver, **this**);

}

**public** **void** clickFrom(String from) {

fromLocation.sendKeys(from);

}

**public** **void** clickTo(String to) {

toLocation.sendKeys(to);

}

**public** **void** clickDate() {

date.click();

}

**public** **void** selectDateFromCalendar() {

selectDate.click();

}

**public** **void** searchBuses() {

clickSearch.click();

}

}

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**NavigateTest:**

**package** redbusProject.Testpages;

**import** org.testng.annotations.AfterClass;

**import** org.testng.annotations.BeforeClass;

**import** org.testng.annotations.Test;

**import** redbusProject.Base.TestBase;

**import** redbusProject.pages.Homepage;

**public** **class** NavigateTest **extends** TestBase {

Homepage hp;

@BeforeClass

**public** **void** OpenApp() {

*openBrowser*("Chrome");

hp = **new** Homepage(*driver*);

}

@Test(priority = '1')

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

Thread.*sleep*(2000);

hp.clickOnMyAccount();

Thread.*sleep*(2000);

}

@Test(priority = '2')

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

hp.clickOnCabRental();

Thread.*sleep*(3000);

}

@AfterClass

**public** **void** CloseApp() {

*driver*.quit();

}

}

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**AccountPageTest:**

**package** redbusProject.Testpages;

**import** org.testng.annotations.AfterClass;

**import** org.testng.annotations.BeforeClass;

**import** org.testng.annotations.Test;

**import** redbusProject.Base.TestBase;

**import** redbusProject.pages.Homepage;

**public** **class** AccountPageTest **extends** TestBase {

Homepage hp;

@BeforeClass

**public** **void** OpenApp() {

*openBrowser*("Chrome");

hp = **new** Homepage(*driver*);

}

@Test

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

Thread.*sleep*(2000);

hp.clickOnMyAccount();

Thread.*sleep*(5000);

hp.clickOnSignup();

Thread.*sleep*(5000);

}

@AfterClass

**public** **void** CloseApp() {

*driver*.quit();

}

}

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**bookBusTicketTeat:**

**package** redbusProject.Testpages;

**import** org.testng.annotations.AfterClass;

**import** org.testng.annotations.BeforeClass;

**import** org.testng.annotations.Test;

**import** redbusProject.Base.TestBase;

**import** redbusProject.pages.SearchBusPage;

**public** **class** bookBusTicketTest **extends** TestBase {

SearchBusPage Sp;

@BeforeClass

**public** **void** OpenApp() {

*openBrowser*("Chrome");

Sp = **new** SearchBusPage(*driver*);

}

@Test

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

String from = "Mumbai";

String to = "Pune";

Sp.clickFrom(from);

Sp.clickTo(to);

Sp.clickDate();

Sp.selectDateFromCalendar();

Sp.searchBuses();

Thread.*sleep*(5000);

}

@AfterClass

**public** **void** CloseApp() {

*driver*.quit();

}

}

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**TestNGRunner.xml**

<suite name="test1" verbose="1">

<test name="POMFramework">

<classes>

<class name="redbusProject.Testpages.NavigateTest"></class>

<class name="redbusProject.Testpages.AccountPageTest"></class>

<class name="redbusProject.Testpages.bookBusTicketTest"></class>

</classes

</test>

</suite>