

Handling the Test Data and Executing in Multiple Environments for Bus Ticket Booking Application.

SOURCE CODE

```
Test Base: package redbus Project . 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"); } }

=====

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(); }

} ===== = 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();
}

} ===== 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();
}
}

```

```

===== 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 click On SignUpPage() throws InterruptedException {

        Thread.sleep(2000); hp.clickOnMyAccount(); Thread.sleep(5000); hp.clickOnSignup();
        Thread.sleep(5000);

    }

    @AfterClass public void CloseApp() { driver.quit();

    }

} =====

```

```

BookBusTicketTest: 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(); }

```

```

} ===== =

```

TestNGRunner.xml

```

<suite name="test1" verbose="1">
<test name="POMFramework"> <classes>
<class name="redbusProject.Testpages.NavigateTest"></class>
<class name="redbus Project.Testpages.AccountPageTest"></class>
<class name="redbus Project.Testpages.BookBusTicketTest"></class>
</classes </test>
</suite>

```