

Handling the Test Data and Executing It in Multiple Environments for BusTicket Booking Application.

SOURCE CODE

Test Base:

```
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 {

    //Baseclass indicate 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 executed before suite begins its execution public
    void InitializeExtentReport() {
        ExtentSparkReporter sparkreporter = new
```

```

ExtentSparkReporter("register_user_report1.html"); extentreports = new ExtentReports();
    extentreports.attachReporter(sparkreporter);
    //onthereportdisplaymoreinformationaboutOS, 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());
        }elseif(result.getStatus()==
ITestResult.SUCCESS) { extentTest.pass(m.getName() + " is passed"); }
    }
}

```

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```

Homepage: 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/SignUp']") 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 clickOnSignUpPage() 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();
    }
}
```

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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>
```