

# Source\_code for capstone project

**API\_testing\_through \_postman:**

**Using Restassured:**

```
package com.testflyaway;
```

```
import  
org.codehaus.groovy.control.customizers.builder.PostCompletion  
Factory;
```

```
import io.restassured.RestAssured;  
import io.restassured.http.Method;  
import io.restassured.path.xml.XmlPath;  
import io.restassured.path.xml.XmlPath.CompatibilityMode;  
import io.restassured.response.Response;  
import io.restassured.specification.RequestSpecification;
```

```
public class Flyaway {  
    Response response;  
    RequestSpecification given;  
    //Jdbcdata str=new Jdbcdata();
```

```
// public static void main(String[] args) { // TODO Auto-generated method stub
```

```
public void baseUrl() {
```

```
    String Url = "http://localhost:8080/FlyAway";
```

```
    RestAssured.baseURI = Url;
```

```
//    java.lang.String strEmail="lokesjhd@gmail.com";
```

```
//    java.lang.String strPWD="lokii12345";
```

```
}
```

```
public void loginAction(String email_id, String pwd) {
```

```
    given = RestAssured.given();
```

```
    response = given.request(Method.POST,  
"/loginaction?email_id=" + email_id + "&pwd=" + pwd);
```

```
    System.out.println("Status_code_for_loginaction:" +  
response.getStatusCode());
```

```
    System.out.println(response.asPrettyString());
```

```
    System.out.println("login credtional"+email_id+"  
"+pwd);
```

```
}
```

```
public void homePage() {
```

```
    //System.out.println("home bodygetrS");
```

```

        given = RestAssured.given();
        response = given.request(Method.GET, "/home");

        System.out.println("Status_code _for_home:" +
response.getStatusCode());
        System.out.println(response.getBody().asString());

        String resp = response.getBody().asString();
        XmlPath html = new
XmlPath(CompatibilityMode.HTML, resp);

        String strSrcID = html.getString("html.head.title");
        // String strSrcID =
        // html.getString("html.body.form.table.tbody.tr.td:nth-
child(1).select.option:nth-child(3)");

        System.out.println(strSrcID);
        //System.out.println("home bodygetrS");

    }

    public void flightSearch() {
        given = RestAssured.given();
        java.lang.String str_ID = "1";
        java.lang.String strd_ID = "4";

```

```
        response = given.request(Method.GET, "/home?s_ID="
+ strs_ID + "&d_ID=" + strd_ID);
        System.out.println(response.getStatusCode());
        System.out.println(response.getBody().asString());
    }
```

```
public void bookingFlight() {
```

```
    given = RestAssured.given();
```

```
    java.lang.String strflight = "bookflight?id=3";
```

```
    response = given.request(Method.GET, "/" + strflight);
```

```
    System.out.println(response.getBody().asString());
```

```
}
```

```
public void completeBooking() {
```

```
    given = RestAssured.given();
```

```
    java.lang.String strcompletebook = "completepurchase";
```

```
    response = given.request(Method.GET, "/" +
strcompletebook);
```

```
    System.out.println(response.getBody().asString());
```

```
}
```

```
}
```

## Using non\_functional\_testing:

```
package com.testflyaway;  
  
import java.time.Duration;  
  
import org.openqa.selenium.By;  
  
import org.openqa.selenium.WebDriver;  
  
import org.openqa.selenium.chrome.ChromeDriver;  
  
public class RegisterPage {  
    WebDriver driver;  
    Flyaway flyaway=new Flyaway();  
  
    public void LoginPage(String email_id,String pwd) {  
        flyaway.baseUrl();  
        flyaway.homePage();  
        flyaway.logainAction(email_id,pwd);  
        flyaway.flightSearch();  
        flyaway.bookingFlight();  
        flyaway.completeBooking();  
  
        driver = new ChromeDriver();  
    }  
}
```

```
        driver.manage().window().maximize();
driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(2))
;

        driver.get("http://localhost:8080/FlyAway/");

        driver.findElement(By.xpath("/html/body/a[2]")).click();

        driver.findElement(By.xpath("/html/body/form/table/tbody/tr
[1]/td[2]/input")).sendKeys(email_id);

        driver.findElement(By.xpath("/html/body/form/table/tbody/tr
[2]/td[2]/input")).sendKeys(pwd);

        driver.findElement(By.xpath("/html/body/form/table/tbody/tr
[3]/td/button")).click();
//        flyaway.logainAction(email_id,pwd);
//        System.out.println("login success");

    }

    public void home() {

        driver.findElement(By.xpath("/html/body/a[1]")).click();
//        flyaway.homePage();
        ///html/body/a[1]

    }
```

```

    public void Flightsearching() {

        driver.findElement(By.xpath("/html/body/form/table/tbody/tr/td[1]
        /select")).click();
        driver.findElement(By.xpath("/html/body/form/table/tbody/tr/td[1]
        /select")).sendKeys("B");
        driver.findElement(By.xpath("/html/body/form/table/tbody/tr/td[2]
        /select")).click();

        driver.findElement(By.xpath("/html/body/form/table/tbody/tr
        /td[2]/select")).sendKeys("H");
        driver.findElement(By.xpath("/html/body/form/table/tbody/tr
        /td[3]/button")).click();
        //      flyaway.flightSearch();
    }

    public void Flightbooking() {

        driver.findElement(By.xpath("/html/body/table/tbody/tr[2]/td
        [6]/a")).click();
        //
    }

    public void Completebooking() {
        //      flyaway.completeBooking();
        driver.findElement(By.xpath("/html/body/a[6]")).click();
        driver.findElement(By.xpath("/html/body/a[4]")).click();
        //      System.out.println("flight_Booking_successful"); }
    }}

```

```
package com.testflyaway;
```

## **JDBC connection for user input:**

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
```

```
import org.testng.annotations.Test;
```

```
public class Jdbcdata {
```

```
    static Connection conn;
```

```
    RegisterPage register = new RegisterPage();
```

```
    // public static void main(String args[]) {
```

```
    // @Test
```

```
    public void Loginpage() {
```

```
        String conn_url = "jdbc:mysql://localhost:3306/flyaway";
```

```
        String UN = "root";
```

```
        String PWD = "root";
```

```
        conn = null;
```

```
        try {
```

```
            String qry = "Select * from f_user where name ='lokesh JD'";
```

```
            conn = DriverManager.getConnection(conn_url, UN, PWD);
```

```
            java.sql.Statement statement = conn.createStatement();
```

```
            ResultSet resultSet = statement.executeQuery(qry);
```



```
        while (resultSet.next()) {
String act_name = (resultSet.getString("name"));
String city_name = (resultSet.getString("city"));
String email_id = (resultSet.getString("email"));
String pwd = (resultSet.getString("pwd"));

System.out.println(act_name);
System.out.println(city_name);
System.out.println(email_id);
System.out.println(pwd);
register.LoginPage(email_id, pwd);
//System.out.println("login success");
}
} catch (SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}

public void HomePage() {
    register.home();
}

    public void Flightsearching() {
        register.Flightsearching();
    }
}
```

```
public void Flightbooking() {  
    register.Flightbooking();  
}
```

```
public void Completebookingflight() {  
    register.Completebooking(); } }
```

## **TestNG test cases:**

```
package com.testflyaway;  
import org.testng.annotations.Test;  
public class Testrunn {  
    //public static void main(String args[])  
  
        Jdbcdata data=new Jdbcdata();  
        @Test  
        public void test1() {  
            data.Loginpage();  
            System.out.println("login_successfull");  
            System.out.println(" ");  
        }  
        @Test  
        public void test2() {
```

```

        data.HomePage();
        System.out.println("Home_page_validated");
        System.out.println(" ");
    }

    @Test
    public void test3() {
        data.Flightsearching();

        System.out.println("source_and_destination_setting_done");
        System.out.println(" ");
    }

    @Test
    public void test4() {
        data.Flightbooking();
        System.out.println("flight_Booking_validation done");
        System.out.println(" ");
    }

    @Test
    public void test5() {
        data.Completebookingflight();
        System.out.println("flight_Booking_conformed");
        System.out.println(" ");

    }
}

```

}

## 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
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.flyaway</groupId>
  <artifactId>Flyaway</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <dependencies>
    <!-- https://mvnrepository.com/artifact/io.rest-
assured/rest-assured -->
    <dependency>
      <groupId>io.rest-assured</groupId>
      <artifactId>rest-assured</artifactId>
      <version>5.3.0</version>
      <scope>test</scope>
    </dependency>
    <!--
https://mvnrepository.com/artifact/org.apache.httpcomponents/http
pclient -->
    <dependency>
      <groupId>org.apache.httpcomponents</groupId>
```

```

        <artifactId>httpclient</artifactId>
        <version>4.5.14</version>
    </dependency>
    <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-java</artifactId>
        <version>4.7.1</version>
    </dependency>
    <dependency>
        <groupId>mysql</groupId>
        <artifactId>mysql-connector-java</artifactId>
        <version>8.0.32</version>
    </dependency>
    <!-- https://mvnrepository.com/artifact/org.testng/testng
-->
</dependencies>
<build>
    <plugins>
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-surefire-
plugin</artifactId>
            <version>3.0.0-M8</version>
            <configuration>
                <systemPropertyVariables>

```

```

        <propertyName>firefox</propertyName>
      </systemPropertyVariables>
    </configuration>
  </plugin>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-compiler-
plugin</artifactId>
    <version>3.10.1</version>
    <configuration>
      <source>1.8</source>
      <target>1.8</target>
    </configuration>
  </plugin>
</plugins>
</build>

</project>

```

## **Postman\_test\_cases:**

### **GET Request LoginPage:**

```

pm.test("Status code is 200", function () {
  pm.response.to.have.status(200);

```

```
});  
pm.test("ckeckTitle", function () { const $ =  
cheerio.load(pm.response.text());  
  console.log($('title').text());  
  pm.expect($('title').text()).to.include("Fly Away - Login");  
});
```

### **POST Request login:**

```
pm.test("Status code is 200", function () {  
  pm.response.to.have.status(200);  
});
```

```
pm.test("ChekTitle", function () {  
  const $ = cheerio.load(pm.response.text());  
  console.log($('title').text());  
  pm.expect($('title').text()).to.include("Fly Away - Dashboard");  
});
```

```
pm.test("ResponseShouldNotContainLoginFail", function(){  
  pm.expect(pm.response.text()).to.not.include("Login failed");  
});
```

### **GET Request homepage:**

```
const $ = cheerio.load(pm.response.text());
```

```
console.log($('title').text());
```

```
console.log($("#select[name='source'] option:nth-child(3)").attr('value'));
```

```
pm.environment.set("s_ID", $("#select[name='source'] option:nth-child(3)").attr('value'));
```

```
pm.environment.set("d_ID", $("#select[name='destination'] option:nth-child(3)").attr('value'));
```