# Capstone Project - Testing an Airline Booking Website - WriteUp

#### **Softwares Required:**

- 1) flya way.war Application
- 2) Wampserver
- 3) Apache Tomcat
- 4) MySQL
- 5) Eclipse
- 6) Java 1.8
- 7) Selenium standalone server 3.141.59
- 8) TestNG
- 9) Cucumber
- 10) Jenkins Server
- 11)Postman
- 12) Jmeter

# **Steps Performed:**

- 1) Install Wampserver and Apache tomcat
- 2) Start MySQL service in wampserver and start creating Database for flyaway application.
- 3) Extract flyaway.war from webaspps folder in a pache tomcat from command prompt and check whether flyaway application is running on localhost: 8080
- 4) Start eclipse and create Maven Project to test the flyaway application and convert into testNG
- 5) Add the required dependencies in pom.xml
- 6) Write the code in page object model and run as TESTNG Suite
- 7) Create Git repository and push the code to GIT Repository
- 8) Run Jenkins Server and Create new Jenkin Project
- $9) \, Configure \, the \, project \, using \, GIT \, URL \, and \, schedule \, test the \, build \, process \, according \, to \, our \, requirement \, .$
- $10) Open \ Post \ man \ and \ create \ Collection \ with \ name \ Fly \ Away \ and \ Tested \ Signup, \ Login, \ Flight Booking \ and \ Logout \ functions.$
- 11) Open Jmeter and add thread groups from Threads, HTTP request from Sampler and View Results tree from Listeners.

# **Dependencies Required:**

- 1)cucumber core
- 2)cucumber java
- 3)cucumber testng
- 4)cucumber -jvm-deps
- 5)cucumber reporting
- 6)gherkin
- 7)testng
- 8)jcommander
- 9) selenium java 3.141.59
- 10)extent reports
- 11)loj4j
- 11)log4j-api
- 12)log4j-core
- 13)loj4j-1.2-api
- 14)rest-assured
- 15)json-simple
- 16)hamcrest-all
- 17)mockito-all
- 18) json-scheme validator
- 19)json-path
- 20) java-hamcrest
- 21)hamcrest-core
- 22)hamcrest-library
- 23)xml-path
- 24) javax. mail

# **SQL Data Creation:**

1) Create database with name flyaway and use the database

#### create database flyaway;

# use flyaway;

2) Create tables in the Database

# f\_admin Table:-

```
DROPTABLE IF EXISTS `f_admin`;

CREATE TABLE `f_admin` (

`ID` bigint(250) NOT NULL AUTO_INCREMENT,

`admin_id` varchar(250) DEFAULT NULL,

`admin_pwd` varchar(250) DEFAULT NULL,

PRIMARY KEY (`ID`)
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=latin1;

LOCK TABLES `f_admin` WRITE;

INSERT INTO `f_admin` VALUES (1,'venkatasaiswabhanu@gmail.com','venkat@123');

UNLOCK TABLES;
```

# **f\_airlines Table:-**

```
DROP TABLE IF EXISTS `f_airlines`;

CREATE TABLE `f_airlines` (

`ID` bigint(250) NOT NULL AUTO_INCREMENT,

`name` varchar(250) DEFAULT NULL,

PRIMARY KEY (`ID`)
) ENGINE=InnoDB AUTO_INCREMENT=9 DEFAULT CHARSET=latin1;

LOCK TABLES `f_airlines` WRITE;

INSERT INTO `f_airlines` VALUES (1,'SpiceJet'),(2,'GoAir'),(3,'Air India'),(4,'AirAsia'),(5,'Vistara');

UNLOCK TABLES;
```

# **f\_places Tables:-**

```
DROPTABLE IFEXISTS `f_place`;

CREATE TABLE `f_places` (

`ID` bigint(250) NOT NULL AUTO_INCREMENT,

`name` varchar(250) DEFAULT NULL,

PRIMARY KEY (`ID`)
) ENGINE=InnoDB AUTO_INCREMENT=12 DEFAULT CHARSET=latin1;

LOCK TABLES `f_places` WRITE;

INSERT INTO `f_places` VALUES (1,'Bangalore'),(2,'Hyderabad'),(3,'New Delhi'),(4,'Chennai'),(5,'Kolkatta'),(6,'Kerala'),(7,'Madhya Pra desh'),(8,'Mumbai');

UNLOCK TABLES;
```

#### **f\_flights Tables:-**

```
DROPTABLEIFEXISTS`f_flights`;
CREATE TABLE `f_flights` (
`ID` bigint(250) NOT NULL AUTO_INCREMENT,
`source` bigint(250) NOT NULL,
'destination' bigint(250) NOT NULL,
`airline_id` bigint(250) NOT NULL,
'departure' varchar(250) DEFAULT NULL,
 `arrival` varchar(250) DEFAULT NULL,
 `time_taken` varchar(250) DEFAULT NULL,
'price' decimal(20,2) DEFAULT NULL,
PRIMARY KEY ('ID'),
 KEY `constraint_airline` (`airline_id`),
KEY `constraint_source` (`source`),
KEY `constraint_destination` (`destination`),
CONSTRAINT `constraint_airline` FOREIGN KEY (`airline_id`) REFERENCES `f_airlines` (`ID`) ON
DELETE CASCADE ON UPDATE CASCADE,
```

CONSTRAINT `constraint\_destination` FOREIGN KEY (`destination`) REFERENCES `f\_places` (`ID`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `constraint\_source` FOREIGN KEY (`source`) REFERENCES `f\_places` (`ID`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB AUTO INCREMENT=9 DEFAULT CHARSET=latin1;

#### LOCK TABLES'f flights' WRITE;

INSERT INTO `f\_flights` VALUES (1,4,5,2,'9:50 PM','11:30 PM','11:50 HOURS',2000.00),(2,4,6,4,'8:00 PM','9:30 PM','1:50 HOURS',2000.00),(3,1,4,3,'8:50 PM','10:30 PM','1:50 HOURS',2000.00),(4,6,3,5,'6:45 PM','9:45 PM','3:00 HOURS',5584.00),(5,2,5,1,'6:00 AM','8:25 AM','2:25 HOURS',4200.00),(6,1,2,3,'7:45 PM','8:55 PM','1:10 HOURS',2800.00),(7,1,2,4,'7:45 PM','8:55 PM','1:10 HOURS',2800.00),(8,3,1,2,'1:10 PM','4:30 PM','3:20 HOURS',3233.00),(9,2,1,5,'2:20 PM','3:30 PM','1:10 HOURS',3635.00),(10,5,3,1,'8:50 AM','10:30 PM','1:40 HOURS',6500.00);

UNLOCK TABLES:

#### f\_bookings table:-

DROPTABLE IF EXISTS `f\_bookings`;

CREATE TABLE `f\_bookings` (

`ID` bigint(20) NOT NULL AUTO\_INCREMENT,

`user\_id` bigint(20) NOT NULL,

`flight\_id` bigint(20) NOT NULL,

`price` decimal(10,2) DEFAULT NULL,

`booking\_date` datetime DEFAULT NULL,

`flight\_date` datetime DEFAULT NULL,

PRIMARY KEY ('ID'),

KEY 'constraint flights' ('flight id'),

CONSTRAINT `constraint\_flights` FOREIGN KEY (`flight\_id`) REFERENCES `f\_flights` (`ID`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB AUTO INCREMENT=19 DEFAULT CHARSET=latin1;

#### LOCK TABLES `f\_bookings` WRITE;

 $INSERT\ into\ `f\_bookings`\ VALUES\ (1,1,6,2800.00,'2022-03-26\,19:07:11','2022-03-29\ 09:50:00'), (2,1,2,2000.00,'2022-03-27\,22:27:11','2022-03-31\,08:00:00'), (3,1,1,2000.00,'2022-03-28\ 07:20:45','2022-03-29\ 09:50:00'), (4,1,8,3233.00,'2022-03-27\,22:15:11','2022-03-31\ 08:00:00');$ 

UNLOCK TABLES;

# f\_user table :-

```
DROPTABLEIFEXISTS`f_user`;
CREATE TABLE `f_user` (
`ID` bigint(20) NOT NULL AUTO_INCREMENT,
`name` varchar(50) DEFAULT NULL,
'email' varchar(50) DEFAULT NULL,
`date_signup` datetime DEFAULT NULL,
'address' varchar(100) DEFAULT NULL,
`city` varchar(50) DEFAULT NULL,
`pwd` varchar(10) DEFAULT NULL,
PRIMARY KEY ('ID')
) ENGINE=InnoDB AUTO_INCREMENT=3 DEFAULT CHARSET=latin1;
LOCK TABLES `f_user` WRITE;
INSERT INTO `f_user` VALUES (1, 'Swabhanu', 'swabhanu.b@gmail.com', '2022-03-26 17:40:10', 'Ramalayam'
Street', Lakkavaram', 'Hello @ 123'), (2, 'Sai Chakri', 'saichakribk9@gmail.com.com', '2022-03-26
12:10:44', 'Kukatpally', 'Hyderabad', 'Hi@ 123');
UNLOCK TABLES;
   3) To view any table data:
       select * from table name;
       select * from f_flights;
END OF SQL DATA CREATION
```