

Flyaway

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KANDREGULA SAIJAY KUMAR

Flyaway project

ajay.vjit@gmail.com

8885626144

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Overview:

FlyAway is a ticket-booking portal that lets people book flights on their website.

Specifications:

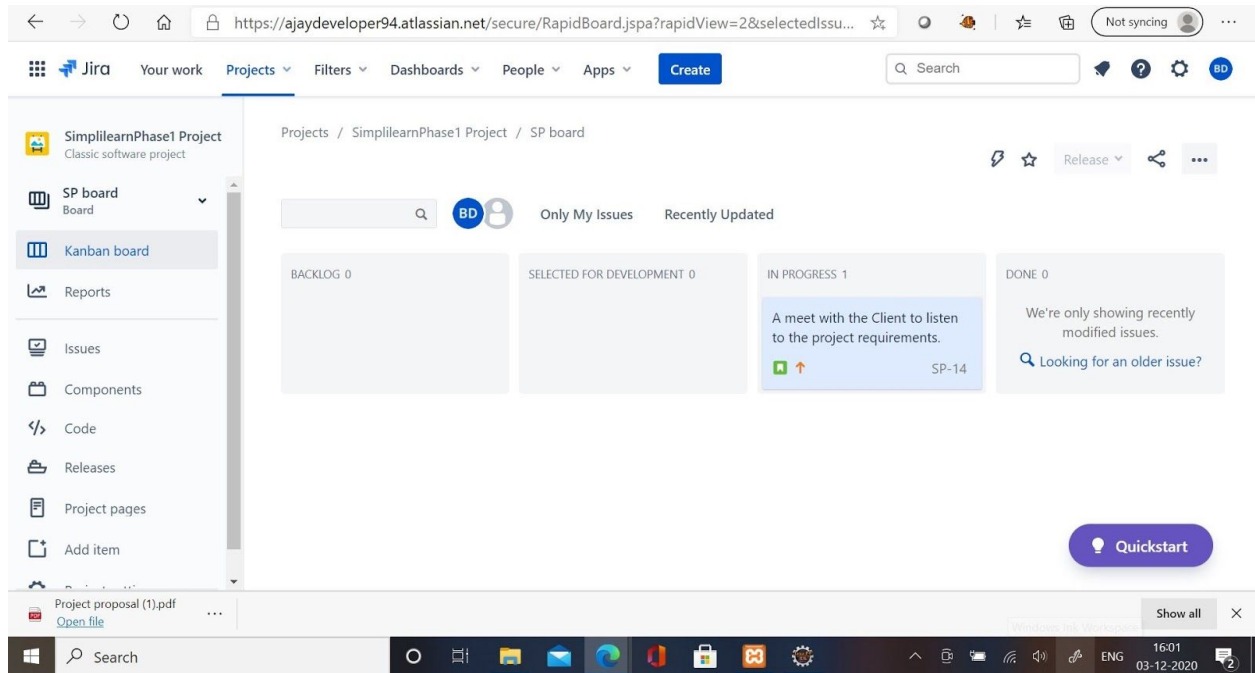
- A search form in the homepage to allow entry of travel details, like the date of travel, source, destination, and the number of persons.
- Based on the travel details entered, it will show the available flights with their ticket prices.
- Once a person selects a flight to book, they will be taken to a register page where they must fill in their personal details. In the next page, they are shown the flight details of the flight that they are booking, and the payment is done via a dummy payment gateway. On completion of the payment, they are shown a confirmation page with the details of the booking.

User Stories:

STORY	ESTIMATION
TABLES	1
ADMIN PANEL	1
USER PANEL	1
FLIGHT SEARCH	1
BOOKING	1
PAYMENT GATEWAY	1

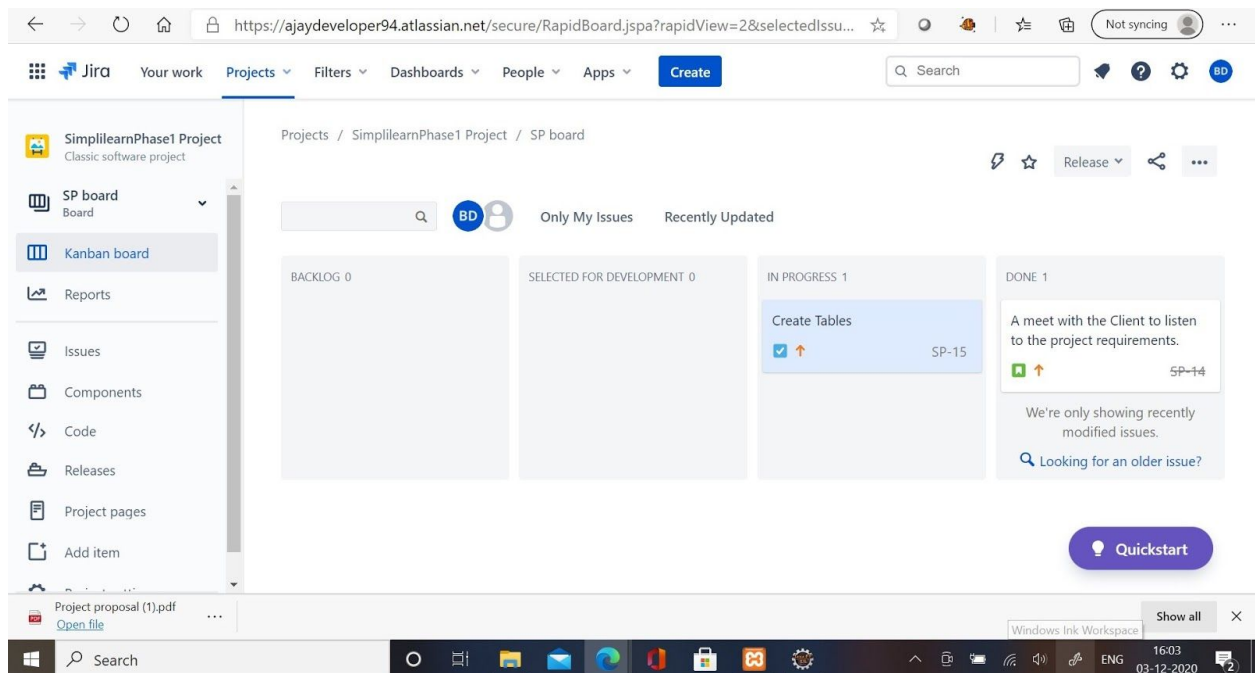
Sprint:

Sprint1: A meet was set up with the client to hear the requirements of the clients.



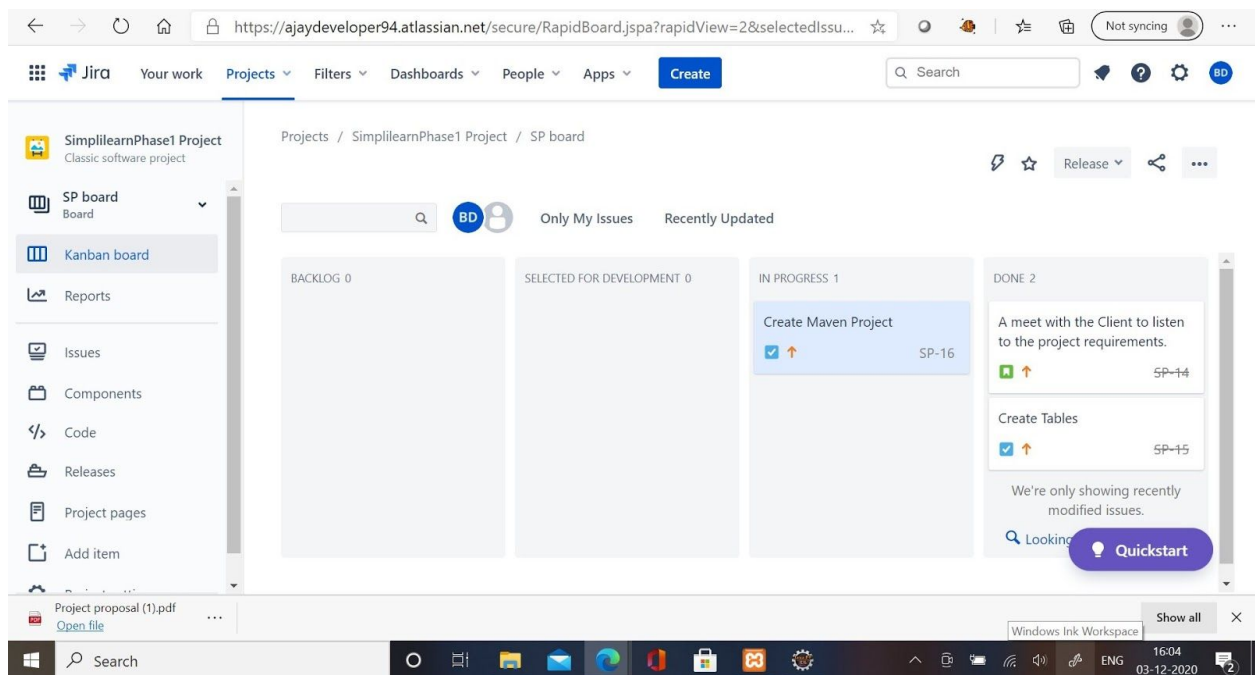
The screenshot shows the Jira interface for the 'SimplilearnPhase1 Project' SP board. The board is divided into four columns: BACKLOG (0), SELECTED FOR DEVELOPMENT (0), IN PROGRESS (1), and DONE (0). The 'IN PROGRESS' column contains a single issue titled 'A meet with the Client to listen to the project requirements.' with ID SP-14. The 'DONE' column contains a message: 'We're only showing recently modified issues. Looking for an older issue?'. The left sidebar shows the project navigation menu with options like SP board, Kanban board, Reports, Issues, Components, Code, Releases, Project pages, and Add item. The top navigation bar includes Jira logo, Your work, Projects, Filters, Dashboards, People, Apps, and a Create button. The bottom status bar shows the Windows taskbar with various application icons and the system clock.

Sprint2: Tables were created in mysql using hibernate.

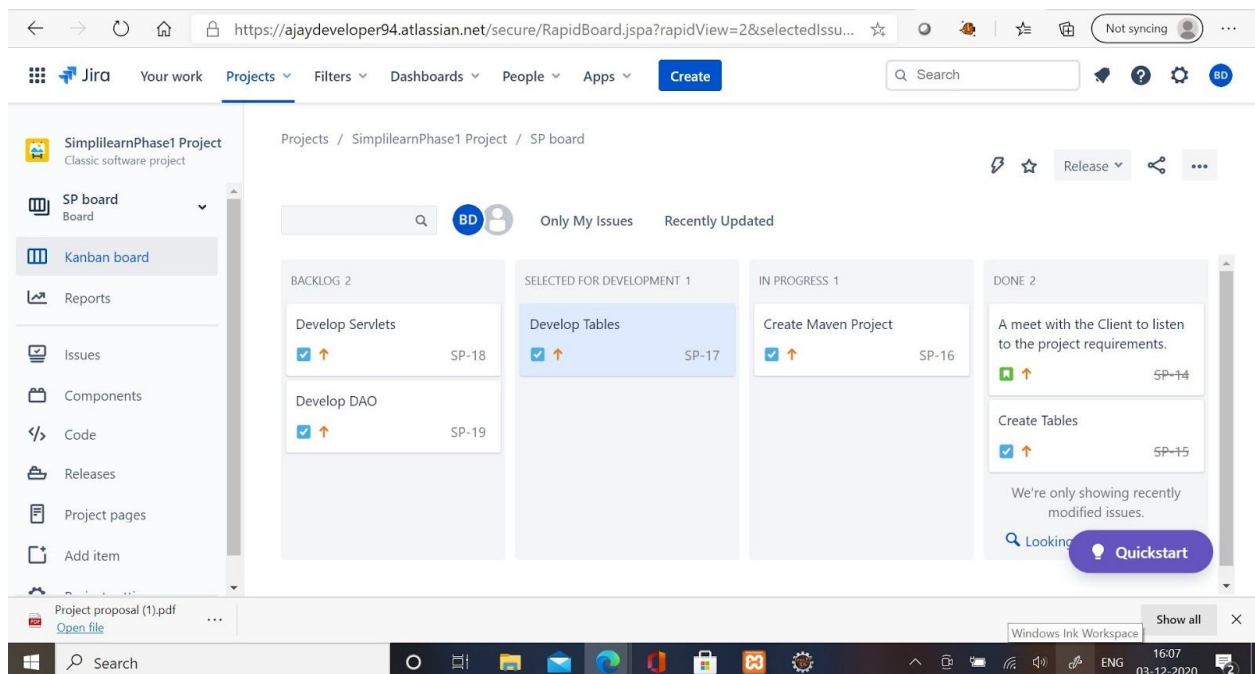


The screenshot shows the Jira interface for the 'SimplilearnPhase1 Project' SP board. The board is divided into four columns: BACKLOG (0), SELECTED FOR DEVELOPMENT (0), IN PROGRESS (1), and DONE (1). The 'IN PROGRESS' column contains a single issue titled 'Create Tables' with ID SP-15. The 'DONE' column contains a message: 'A meet with the Client to listen to the project requirements.' with ID SP-14. The left sidebar shows the project navigation menu with options like SP board, Kanban board, Reports, Issues, Components, Code, Releases, Project pages, and Add item. The top navigation bar includes Jira logo, Your work, Projects, Filters, Dashboards, People, Apps, and a Create button. The bottom status bar shows the Windows taskbar with various application icons and the system clock.

Sprint3: A maven project was developed for this dynamic project.



Sprint4: Tables were created using hibernate and POJO classes.



Sprint5: Servlets and JSPs were developed for the presentation and business logic.

The screenshot shows the Jira interface for the 'SimplilearnPhase1 Project'. The Kanban board is configured with four columns: BACKLOG 1, SELECTED FOR DEVELOPMENT 1, IN PROGRESS 1, and DONE 3. The tasks are as follows:

- BACKLOG 1:** 'Develop DAO' (SP-19) with a checkmark and an upward arrow.
- SELECTED FOR DEVELOPMENT 1:** 'Develop Servlets' (SP-18) with a checkmark and an upward arrow.
- IN PROGRESS 1:** 'Create Maven Project' (SP-16) with a checkmark and an upward arrow.
- DONE 3:**
 - 'A meet with the Client to listen to the project requirements.' (SP-14) with a green checkmark and an upward arrow.
 - 'Create Tables' (SP-15) with a blue checkmark and an upward arrow.
 - 'Develop Tables' (SP-17) with a blue checkmark and an upward arrow.

A 'Quickstart' tooltip is visible over the 'Develop Tables' task, stating: 'We're only showing recently modified issues.' The Windows taskbar at the bottom shows the date as 03-12-2020 and the time as 16:08.

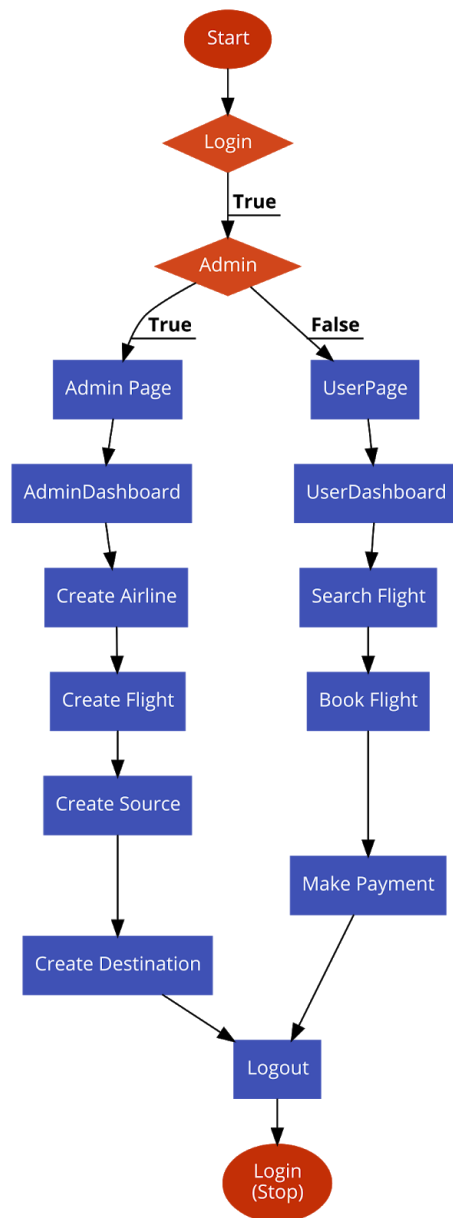
Sprint6: DAO were developed to handle the data between Business logic and Database.

The screenshot shows the Jira interface for the 'SimplilearnPhase1 Project'. The Kanban board is configured with four columns: BACKLOG 0, SELECTED FOR DEVELOPMENT 1, IN PROGRESS 1, and DONE 4. The tasks are as follows:

- BACKLOG 0:** No tasks are present in this column.
- SELECTED FOR DEVELOPMENT 1:** 'Develop DAO' (SP-19) with a checkmark and an upward arrow.
- IN PROGRESS 1:** 'Create Maven Project' (SP-16) with a checkmark and an upward arrow.
- DONE 4:**
 - 'A meet with the Client to listen to the project requirements.' (SP-14) with a green checkmark and an upward arrow.
 - 'Create Tables' (SP-15) with a blue checkmark and an upward arrow.
 - 'Develop Tables' (SP-17) with a blue checkmark and an upward arrow.
 - 'Develop Servlets' (SP-18) with a blue checkmark and an upward arrow.

A 'Quickstart' tooltip is visible over the 'Develop Servlets' task, stating: 'We're only showing recently modified issues.' The Windows taskbar at the bottom shows the date as 03-12-2020 and the time as 16:09.

Flowchart:



Tables Used in the Project:

1. Airline Table: Master List of Airlines

The screenshot shows the phpMyAdmin interface for the 'flyawaydb' database. The 'airlinetable' is selected, and its structure is displayed. The table has two columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	airlineId	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	airlineName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

The 'Indexes' section shows a PRIMARY index on 'airlineId'.

2. Flight Table: Master List of Flights

The screenshot shows the phpMyAdmin interface for the 'flyawaydb' database. The 'flighttable' is selected, and its structure is displayed. The table has two columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	flightId	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	flightName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

The 'Indexes' section shows a PRIMARY index on 'flightId'.

3. User Table: Master List of Users

Server: 127.0.0.1 » Database: flyawaydb » Table: usertable

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	userId	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	userAddress	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	userEmail	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	userName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	userPassword	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
6	userPhone	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
7	userType	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Console

```

Press Ctrl+Enter to execute query
>SELECT * FROM `airlinetable`
>SELECT * FROM `bookingtable`
>SELECT * FROM `destinationtable`
  
```

4. Source Table: Master List of Source

Server: 127.0.0.1 » Database: flyawaydb » Table: sourcetable

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	sourceId	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	sourceName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	sourceId	0	A	No	

Console

```

Press Ctrl+Enter to execute query
>SELECT * FROM `airlinetable`
>SELECT * FROM `bookingtable`
>SELECT * FROM `destinationtable`
  
```

5. Destination Table: Master List of Destination

Server: 127.0.0.1 » Database: flyawaydb » Table: destinationtable

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	destinationId	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	destinationName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	destinationId	0	A	No	

Console

```

Press Ctrl+Enter to execute query
>SELECT * FROM `airlinetable`
>SELECT * FROM `bookingtable`
>SELECT * FROM `destinationtable`
  
```

6. Create Flight Table: Flight List that are running.

Server: 127.0.0.1 » Database: flyawaydb » Table: createflighttable

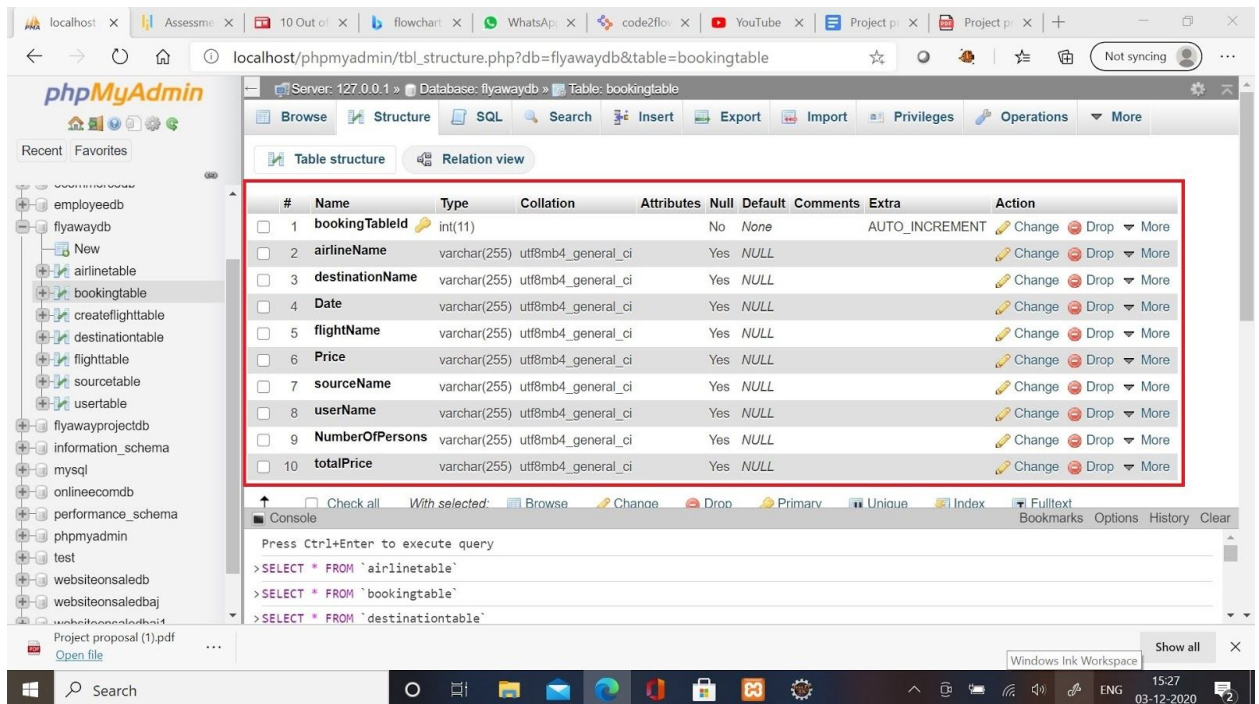
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	createFlightId	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	airlineName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	destinationName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	Date	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	flightName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
6	Price	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
7	sourceName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Console

```

Press Ctrl+Enter to execute query
>SELECT * FROM `airlinetable`
>SELECT * FROM `bookingtable`
>SELECT * FROM `destinationtable`
  
```

7. Booking Table: List of Bookings made by the users.



The screenshot shows the phpMyAdmin interface for the flyawaydb database. The 'Table structure' view for the 'bookingtable' is displayed. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	bookingTableId	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	airlineName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	destinationName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	Date	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	flightName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
6	Price	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
7	sourceName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
8	userName	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
9	NumberOfPersons	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
10	totalPrice	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

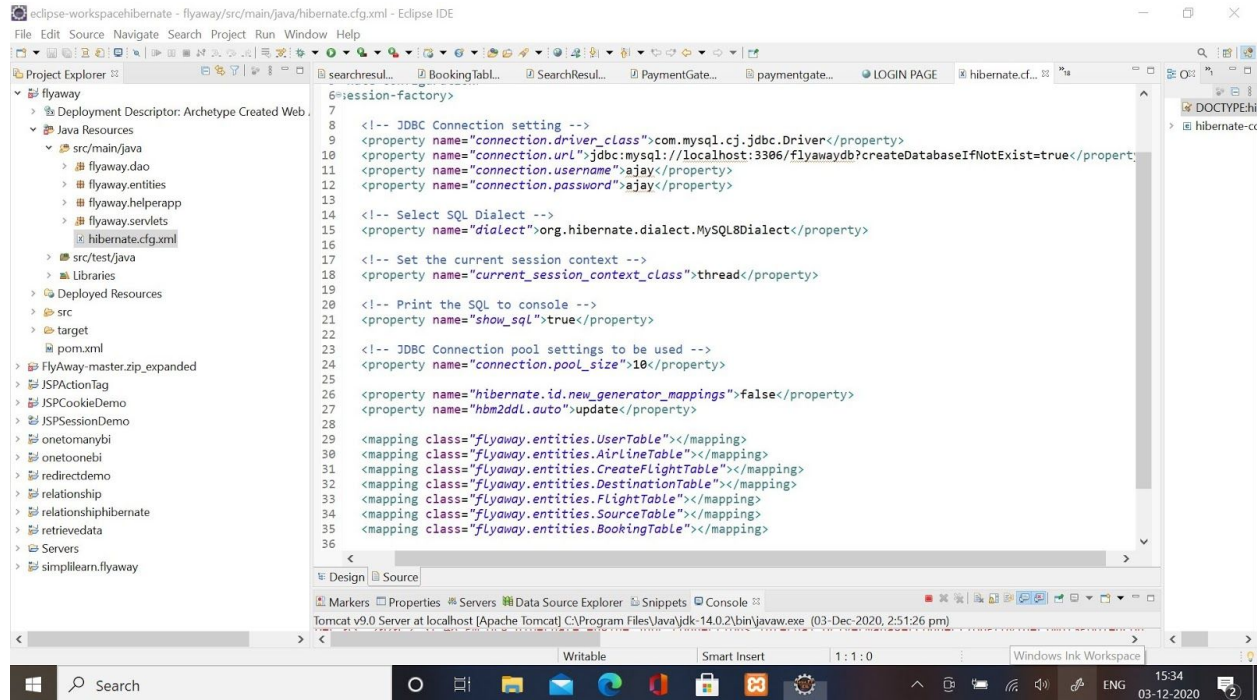
The 'bookingTableId' column is highlighted with a red box. The console at the bottom shows the following SQL queries:

```

>SELECT * FROM `airlinetable`
>SELECT * FROM `bookingtable`
>SELECT * FROM `destinationtable`

```

Hibernate Code for creating tables:

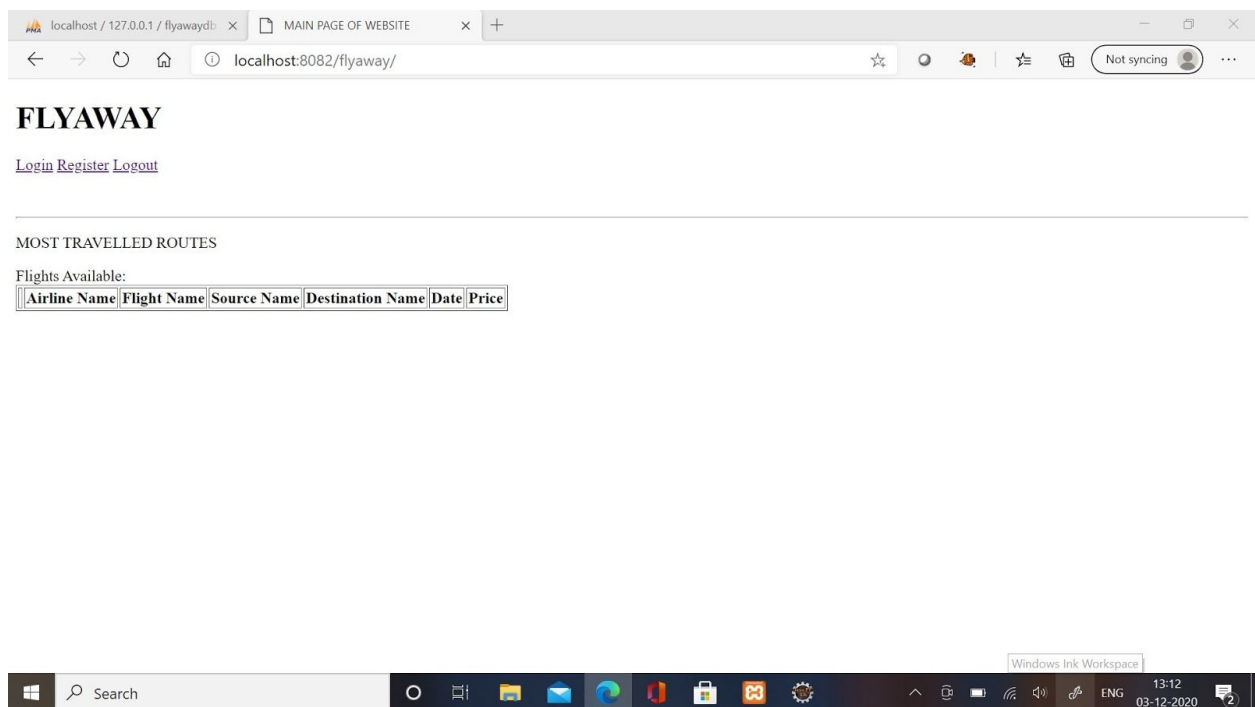


1. `Hbm2ddl.auto` - It will automatically updates the table. If table is not present in the database, it will create one table.
2. `createDatabaseIfNotExist` - It will check for the database existence, if database is not present, it will automatically creates one.

Output and Flow:

Admin Flow:

1. Index page



2. Register Page

localhost / 127.0.0.1 / flyawaydb x REGISTRATION PAGE x +

localhost:8082/flyaway/register.jsp

Please fill the following details to Register

User Name:

Password:

E-Mail Id:

Mobile Number:

Address:

User Type:

[Login Here](#)

Windows Ink Workspace 13:17 03-12-2020

3. Registration Success Page:

localhost / 127.0.0.1 / flyawaydb x REGISTRATION PAGE x +

localhost:8082/flyaway/register-servlet

Please fill the following details to Register

User Name:

Password:

E-Mail Id:

Mobile Number:

Address:

User Type:

[Login Here](#)

MessageRegistration Successful! ajay

Windows Ink Workspace 13:19 03-12-2020

4. Login as Admin:

localhost / 127.0.0.1 / flyawaydb x LOGIN PAGE x +

localhost:8082/flyaway/login.jsp

Please Enter Details To Login

Email address

We'll never share your email with anyone else.

Password

[If not registered click here.](#)

Windows Ink Workspace 13:19 03-12-2020

5. Admin Dashboard:

localhost / 127.0.0.1 / flyawaydb x ADD FLIGHTS PAGE x +

localhost:8082/flyaway/addflight.jsp

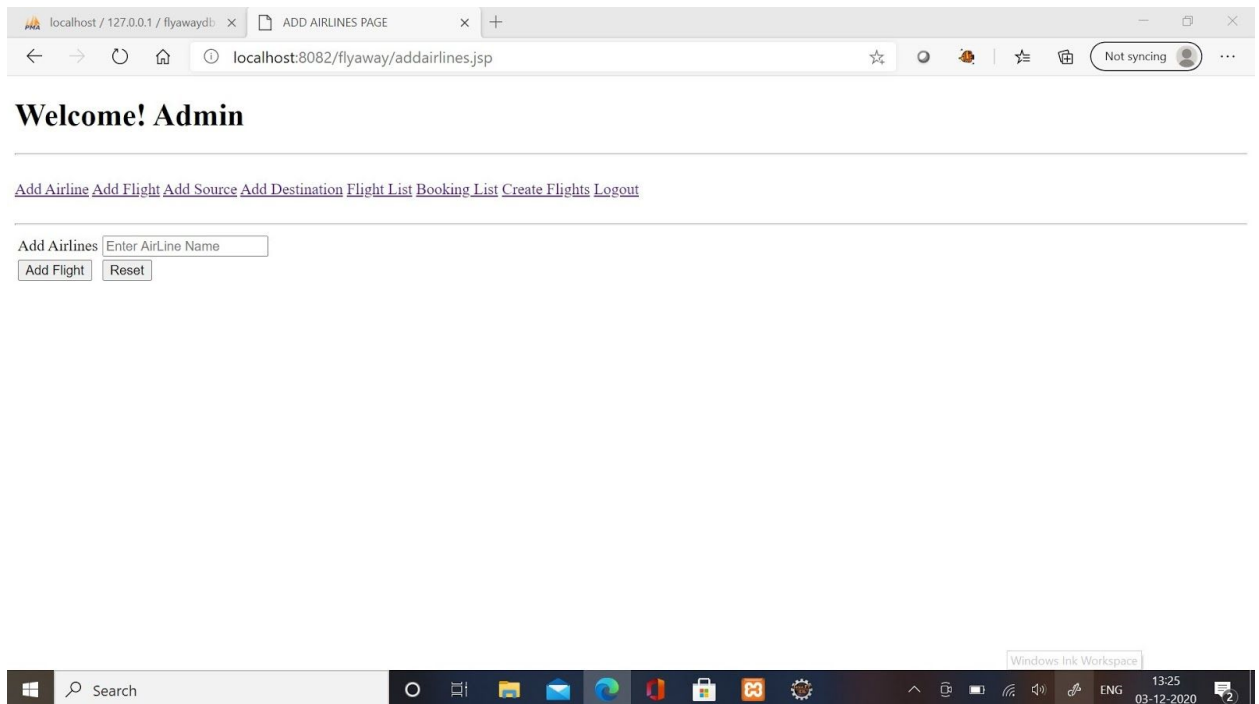
Welcome! Admin

[Add Airline](#) [Add Flight](#) [Add Source](#) [Add Destination](#) [Flight List](#) [Booking List](#) [Create Flights](#) [Logout](#)

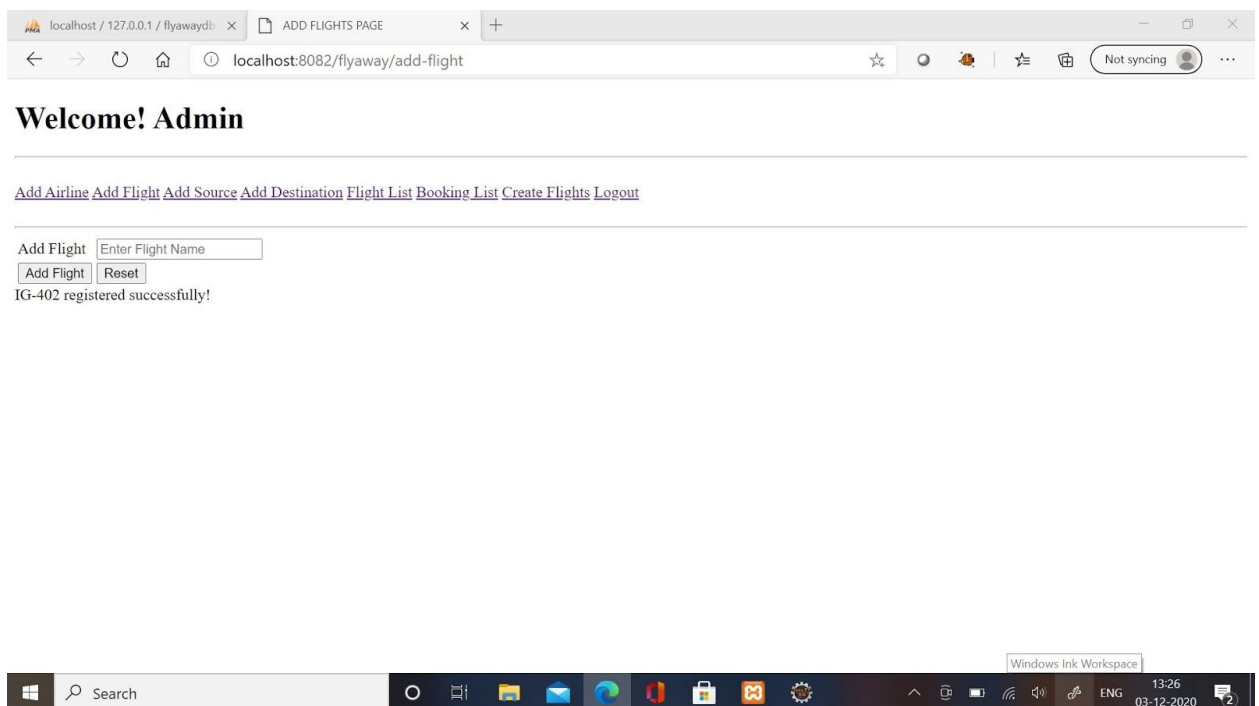
Add Flight

Windows Ink Workspace 13:23 03-12-2020

6. Add Airlines:



7. Add Flights:



8. Add Source:

localhost / 127.0.0.1 / flyawaydb x ADD SOURCE PAGE x +

localhost:8082/flyaway/add-source

Welcome! Admin

[Add Airline](#) [Add Flight](#) [Add Source](#) [Add Destination](#) [Flight List](#) [Booking List](#) [Create Flights](#) [Logout](#)

Add Source

GOA already exists

Windows Ink Workspace 13:27 03-12-2020

9. Add Destination:

localhost / 127.0.0.1 / flyawaydb x DESTINATION PAGE x +

localhost:8082/flyaway/add-destination

Welcome! Admin

[Add Airline](#) [Add Flight](#) [Add Source](#) [Add Destination](#) [Flight List](#) [Booking List](#) [Create Flights](#) [Logout](#)

Add Destination

Hyderabad successfully registered!

Windows Ink Workspace 13:28 03-12-2020

10. Flight Creation:

localhost / 127.0.0.1 / flyawaydb x ADMIN PAGE x +

localhost:8082/flyaway/createflights.jsp

Welcome! Admin

[Add Airline](#) [Add Flight](#) [Add Source](#) [Add Destination](#) [Flight List](#) [Booking List](#) [Create Flights](#)

Create Flight

Airline Name:

Flight Name:

Source Name:

Destination Name:

Date:

Price:

Windows Ink Workspace 13:29 03-12-2020

User Flow:

1. User Dashboard:

The screenshot shows a web browser window with the address bar displaying `localhost:8082/flyaway/dashboardofuser.jsp`. The page title is "Welcome! User". Below the title, the email `kumar@gmail.com` is displayed, followed by a [Logout](#) link. A section titled "Search for Flights" contains a form with "Search by Source and Destination" dropdowns set to "GOA" and "Hyderabad", and buttons for "Search Flights" and "Reset". Below this is a section titled "MOST TRAVELLED ROUTES" with the text "Flights Available:". A table lists flight details:

	Airline Name	Flight Name	Source Name	Destination Name	Date	Price
INDIGO	INDIGO ----	IG-402 ----	GOA ----	Hyderabad ----	2020-12-05 ----	1200

The Windows taskbar at the bottom shows the system clock as 13:44 on 03-12-2020.

2. Search Flights:

The screenshot shows a web browser window with the address bar displaying `localhost:8082/flyaway/searchresult.jsp`. The page title is "Insert title here". Below the title, the [Logout](#) link is visible. A form titled "No. of persons: 2" and "Flights Based on your search:" contains a table with flight details:

	Airline Name	Flight Name	Source Name	Destination Name	Date	Price
<input checked="" type="radio"/>	INDIGO ----	IG-402 ----	GOA ----	Hyderabad ----	2020-12-05 ----	1200

Below the table are buttons for "Select Flights" and "Reset". The Windows taskbar at the bottom shows the system clock as 13:44 on 03-12-2020.

3. Personal Details

localhost / 127.0.0.1 / flyawaydtb x LOGIN PAGE x PERSONAL DETAILS x +

localhost:8082/flyaway/personaldetails.jsp

Personal Details

[Logout](#)

User ID: 2
User Name: kumar
User Email: kumar@gmail.com
User Phone: 9874562130
User Address: DELHI

Windows Ink Workspace 13:45 03-12-2020

4. Booking Details:

localhost / 127.0.0.1 / flyawaydtb x LOGIN PAGE x Insert title here x +

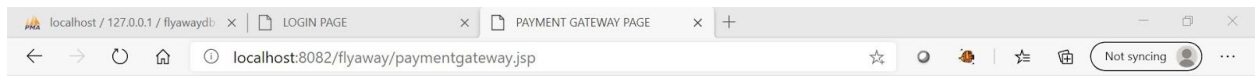
localhost:8082/flyaway/bookingdetails.jsp?

[Logout](#)

Booking ID:	1
User Name:	kumar
User Email:	kumar@gmail.com
Airline Name:	INDIGO
Flight Number	IG-402
Travel Date:	2020-12-05
Source:	GOA
Destination:	Hyderabad
Number of Persons:	2
Total Price:	2400
	<input type="button" value="I confirm and pay"/>

Windows Ink Workspace 13:45 03-12-2020

5. PaymentGateway:

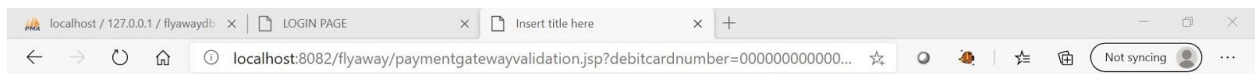


Payment Method Options

CardNumber:
Card Expiry Date:
Card CVV:



6. Payment Success:



Tools and Technologies Used:

Eclipse, Java, SQL, Maven, GIT, GitHub.

GIT Hub source code link:

<https://github.com/ajaydeveloper94/FirstRepo/tree/master/flyaway>