

## INTEGRATED PROGRAMMING LAB – PROJECT OUTPUT SCREENSHOTS

### AIRLINE RESERVATION SYSTEM

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#### Overview :

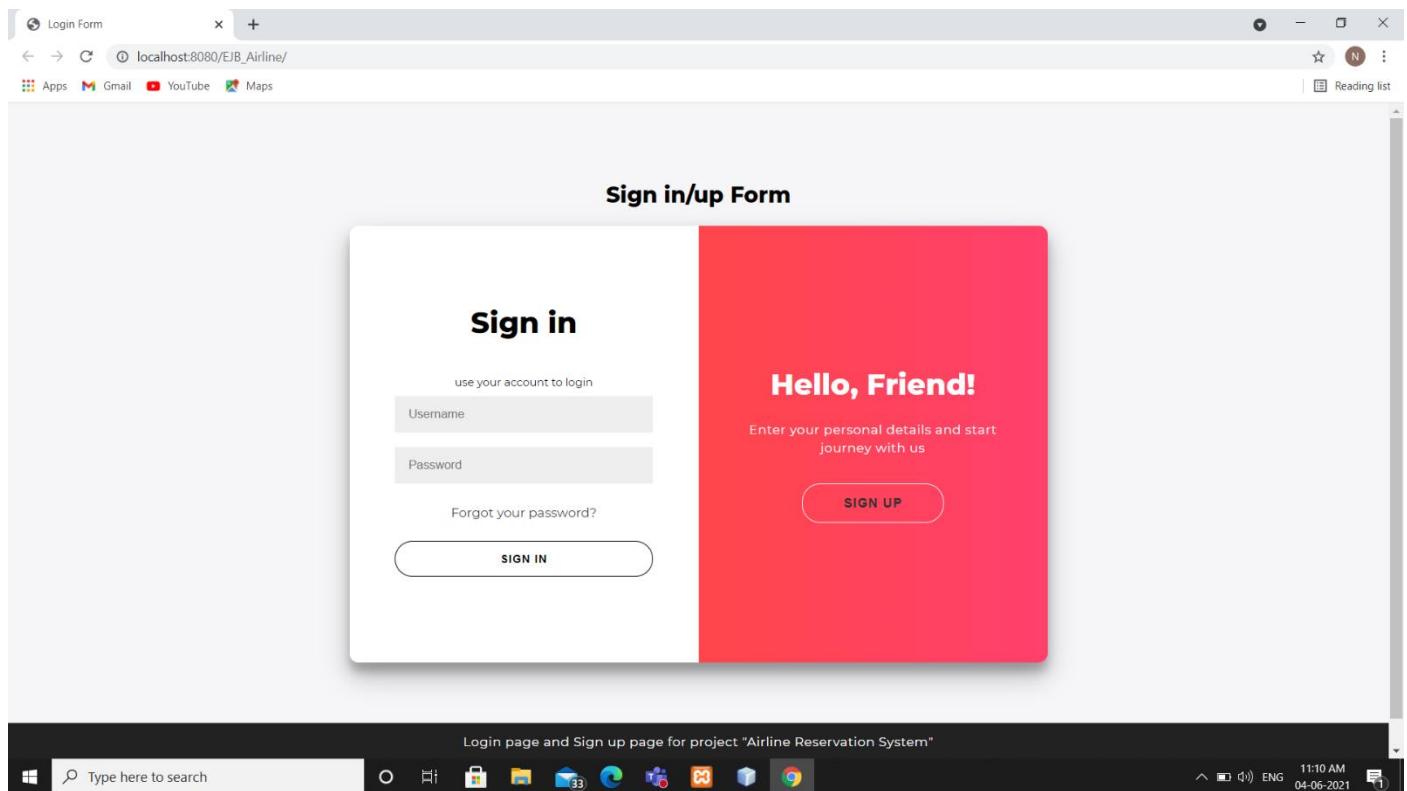
The Airline Reservation System has modules for

- ❖ Registration
- ❖ Login
- ❖ Forgot Password (**implemented using JAVA MAIL API**)
- ❖ Ticket Booking
- ❖ Ticket Cancellation
- ❖ Availability Check
- ❖ Payment Gateway (**implemented using EJB STATELESS SESSION BEANS** )
- ❖ View Profile
- ❖ View Booked Details
- ❖ Delete the registered Account and
- ❖ Logout.

The technologies implemented are **JSP, Java Servlet, EJB (Stateless Session Beans), Java Database Connectivity (JDBC), Java Mail API, Java Http Sessions, Java Class (Models), JavaScript, Request Dispatcher**(to show Success messages from Servlet).

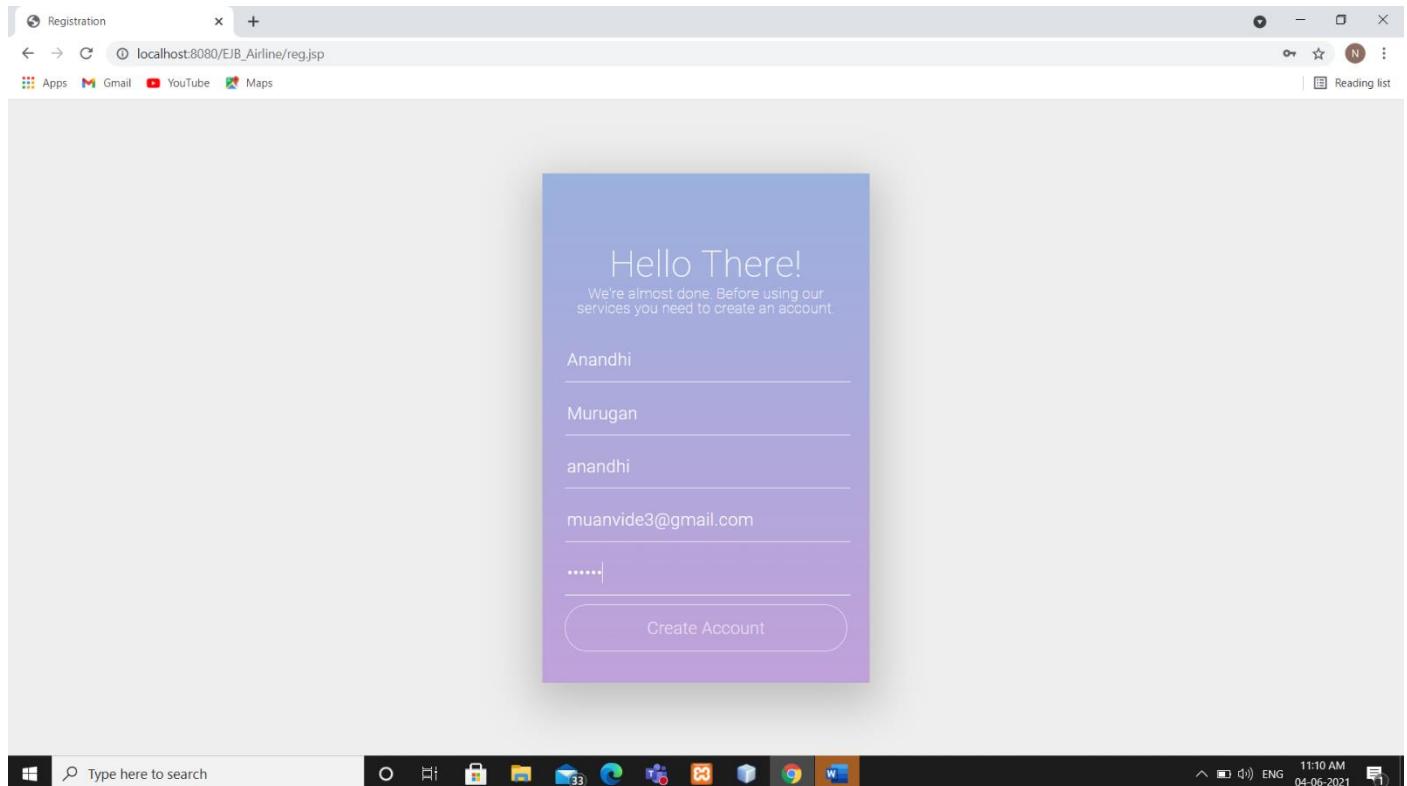
#### Index page (jsp) :

This page has gateway for both login and sign up pages. Login can be done on the same page. For sign up the user can click on the signup button.



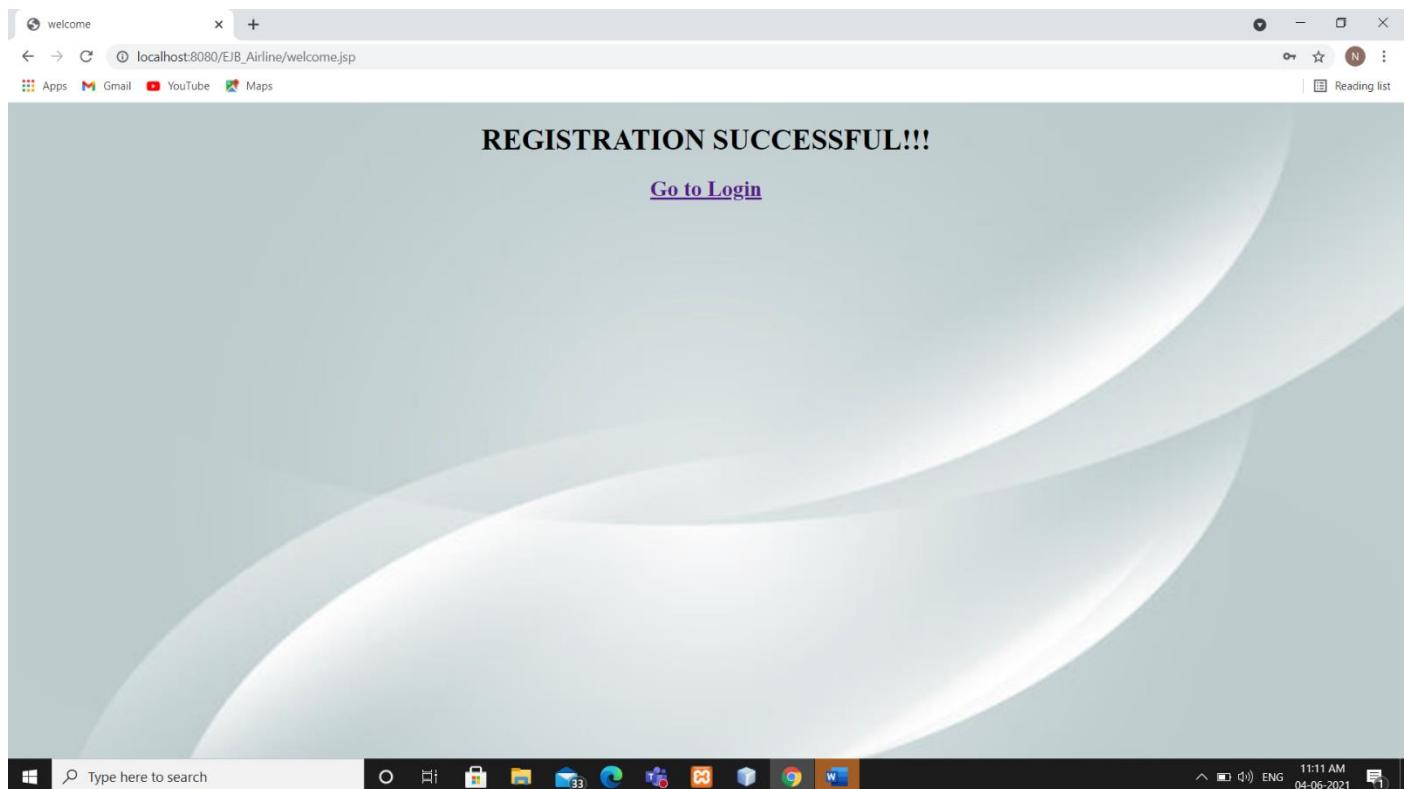
## Registration Page (jsp) :

This page has a form to be filled up for registration. The details will be stored in the database. The username is primary key. So if the username is not available then appropriate message will be shown.



## Welcome Page (jsp) :

On Successful Registration, this page appears.



## Database Screenshot :

The “members” relation has the details stored by registration page. Additionally, it saves the registration date.

The screenshot shows the phpMyAdmin interface for the 'placement' database. The 'members' table is selected. The table structure includes columns: first\_name, last\_name, email, uname, pass, and regdate. Three rows of data are displayed:

	first_name	last_name	email	uname	pass	regdate
1	Vishnupriya	Murugan	muanvide3@gmail.com	vishnu	123456	2021-05-05
2	Devipriya	Murugan	muanvide3@gmail.com	devi	123456	2021-05-05
3	Anandhi	Murugan	muanvide3@gmail.com	anandhi	123456	2021-06-04

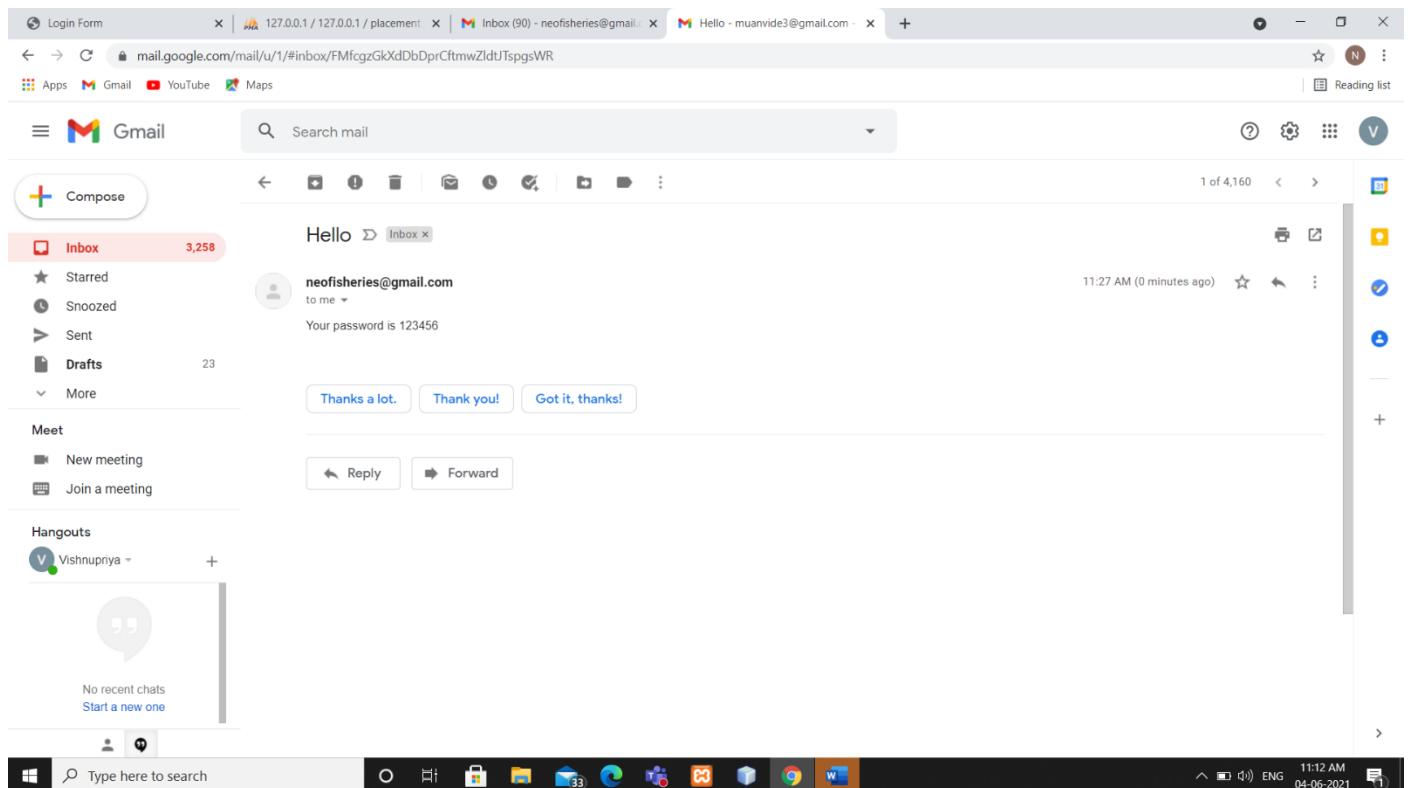
## Forgot Password Page (jsp) :

This page asks for username and email id to send the password to the user. If the username and email id matches and is in the database, mail will be sent. Else appropriate message will appear.

The screenshot shows a JSP page titled "Forgot Password". The page contains two input fields: "Enter Email ID" with the value "muanvide3@gmail.com" and "Enter Username" with the value "anandhi". A green "Submit" button is located below the inputs.

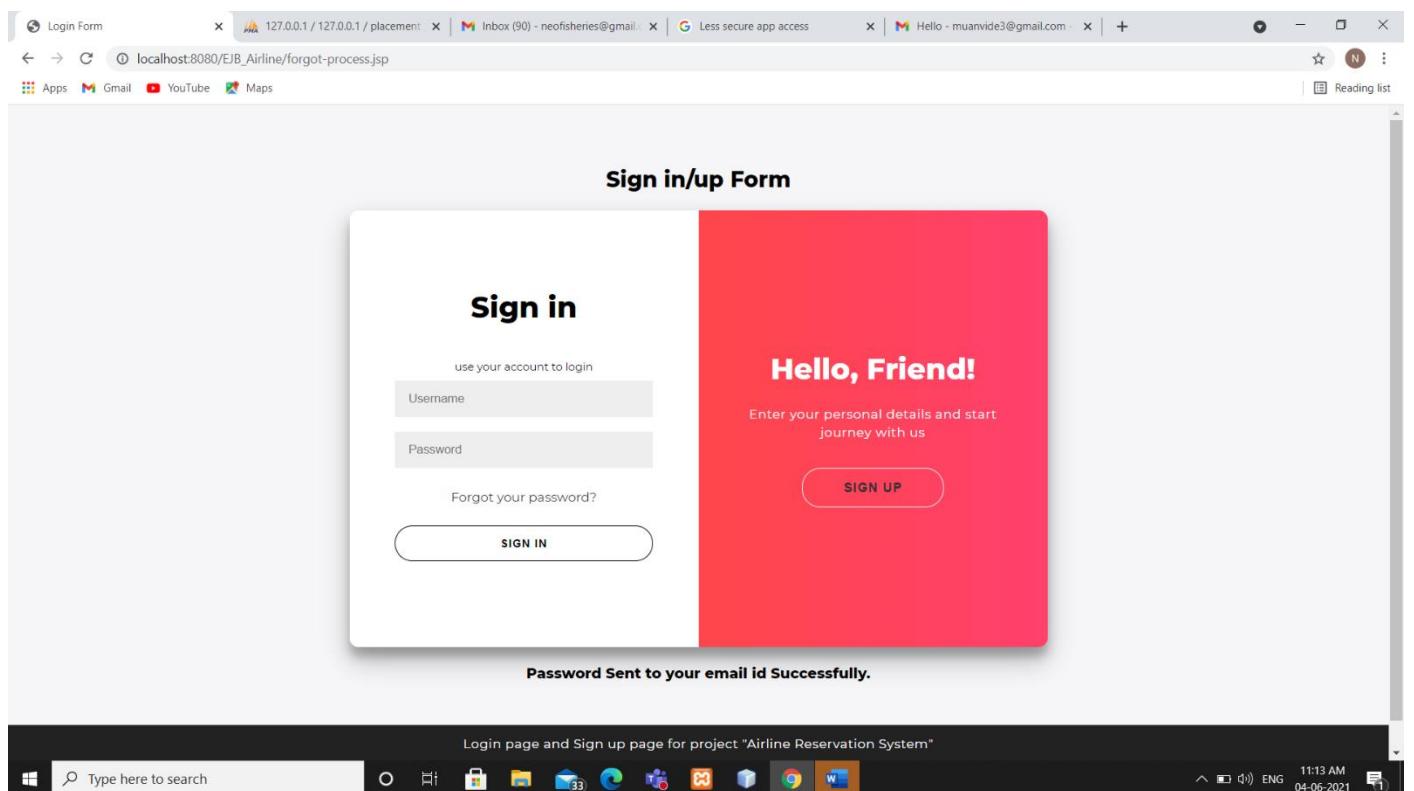
## Mail Screenshot :

On Successfully filling the above form, the mail with the password will be received on the registered email id.



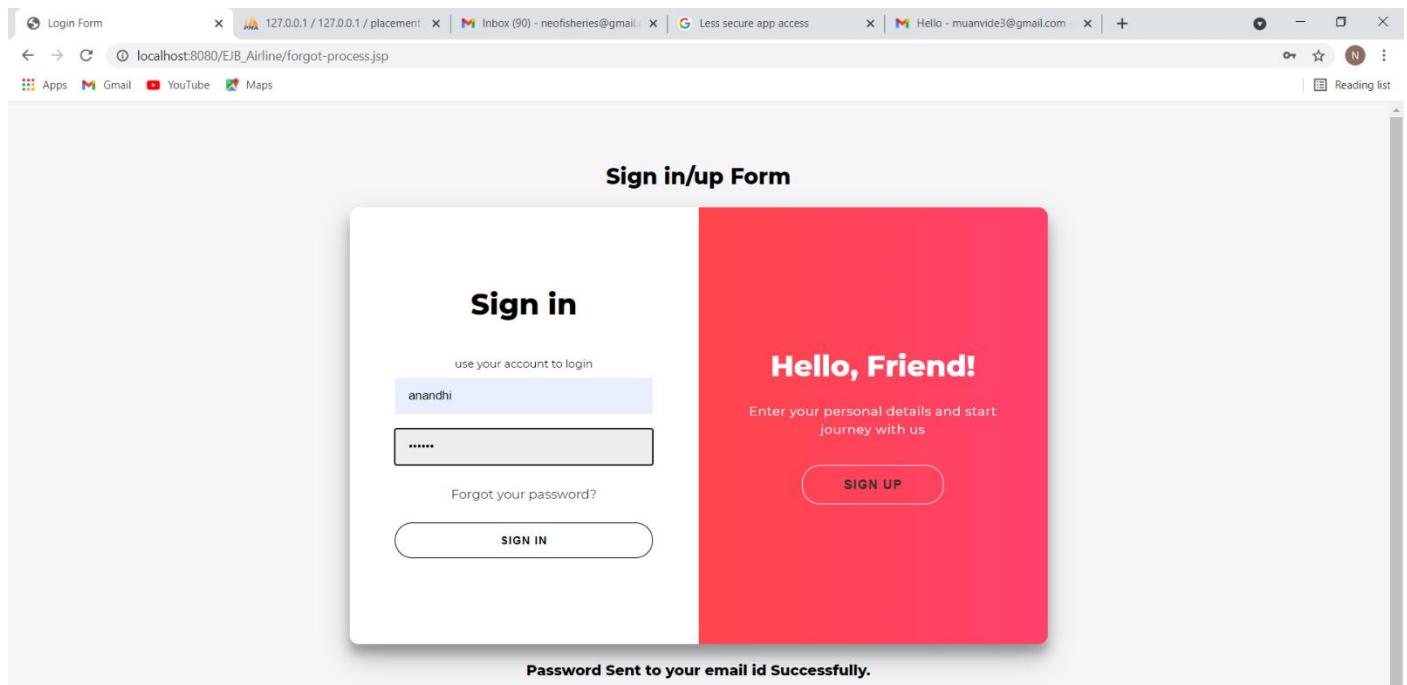
## Login Page with message (jsp) :

If the mail is sent successfully, the following message “Password Sent to your email id Successfully.” will appear on the redirected login page.



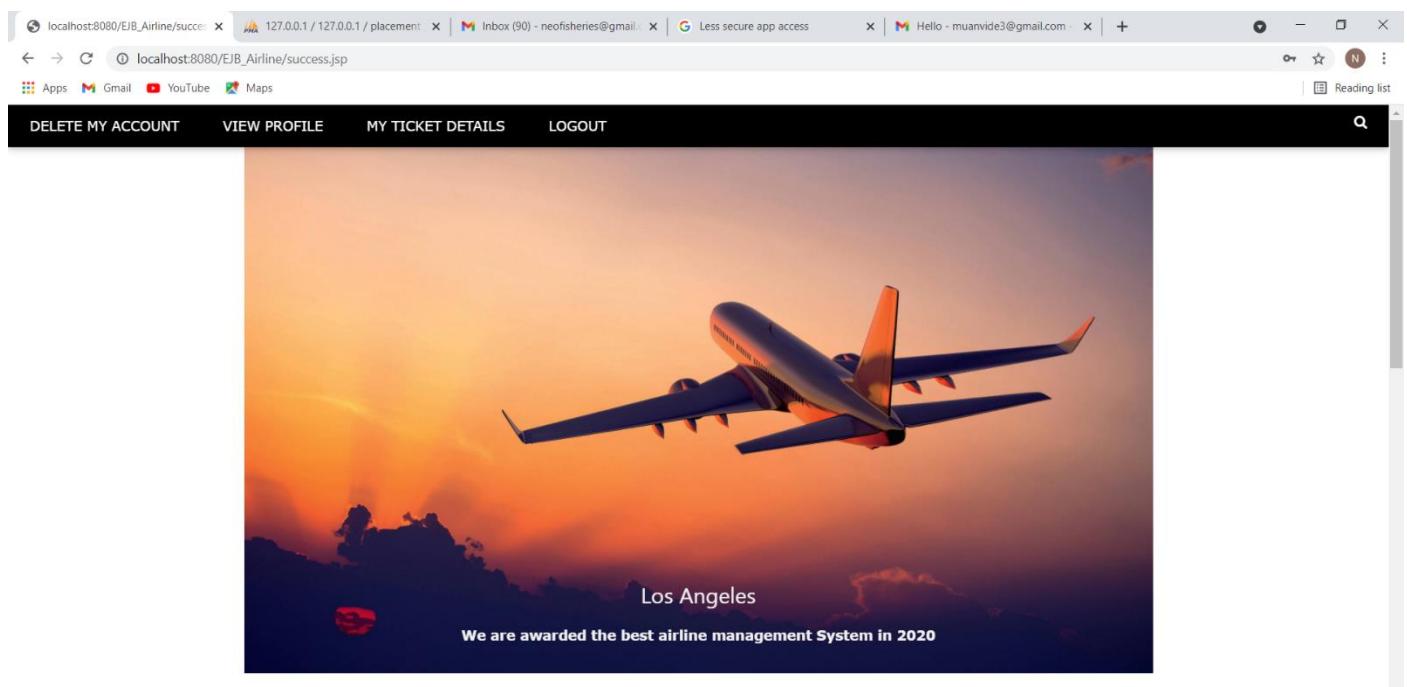
## Login Page (jsp) :

Filling up the login form, to login in to the system.



## Home Page (jsp) :

This page has gateway for all of the system modules. Also, has a slideshow for design purpose. The page is long, so inserted 3 screenshots by different scroll positions.



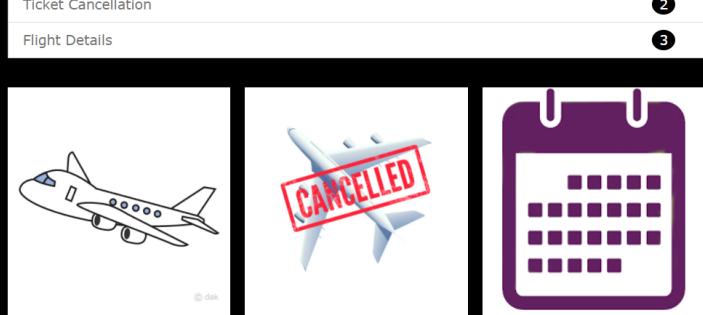
localhost:8080/EJB\_Airline/success.jsp | 127.0.0.1 / 127.0.0.1 / placement | Inbox (90) - neofisheries@gmail.com | Less secure app access | Hello - muanvide3@gmail.com | +

DELETE MY ACCOUNT VIEW PROFILE MY TICKET DETAILS LOGOUT

# Welcome anandhi

Remember to book your tickets!

Ticket Reservation 1  
Ticket Cancellation 2  
Flight Details 3



**Ticket Reservation**  
Reserve your Tickets here  
Fill the reservation form to book your tickets. Enjoy your journey with us.

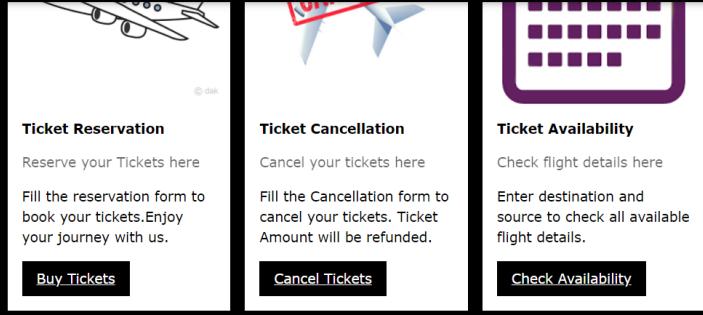
**Ticket Cancellation**  
Cancel your tickets here  
Fill the Cancellation form to cancel your tickets. Ticket Amount will be refunded.

**Flight Details**  
Check flight details here  
Enter destination and source to check all available flight details.

Type here to search 11:14 AM 04-06-2021

localhost:8080/EJB\_Airline/success.jsp | 127.0.0.1 / 127.0.0.1 / placement | Inbox (90) - neofisheries@gmail.com | Less secure app access | Hello - muanvide3@gmail.com | +

DELETE MY ACCOUNT VIEW PROFILE MY TICKET DETAILS LOGOUT



**Ticket Reservation**  
Reserve your Tickets here  
Fill the reservation form to book your tickets. Enjoy your journey with us.

**Ticket Cancellation**  
Cancel your tickets here  
Fill the Cancellation form to cancel your tickets. Ticket Amount will be refunded.

**Flight Details**  
Check flight details here  
Enter destination and source to check all available flight details.

[Buy Tickets](#) [Cancel Tickets](#) [Check Availability](#)

[Log out](#)

[Check Availability](#)  
[Reservation Form](#)  
[Ticket Cancellation](#)  
[Delete My Account](#)

Type here to search 11:14 AM 04-06-2021

## **View Profile Page (jsp) :**

This page shows all the details for the registration page. The profile details are retrieved from the database table “members”.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a profile page for 'Anandhi Murugan'. The page has a red header section featuring a placeholder user icon and the name 'Anandhi Murugan' along with the registered date '2021-06-04'. Below this, there are two sections: 'Information' and 'Login Details'. The 'Information' section shows 'Full Name' as 'Anandhi Murugan' and 'Email' as 'muanvide3@gmail.com'. The 'Login Details' section shows 'Username' as 'anandhi' and 'Password' as '123456'.



## **Delete My Account (jsp) :**

This page has form with input for username and password. The username will be automatically filled by using Http Sessions. The user has to enter the password to confirm deletion.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a 'Login' form for account deletion. The form has a 'Username' field containing 'anandhi' and a 'Enter your Password to confirm deletion' field containing '\*\*\*\*\*'. A large blue button at the bottom is labeled 'DELETE MY ACCOUNT'.



## Database Screenshot :

Database Screenshot after deletion.

The screenshot shows the phpMyAdmin interface for the 'placement' database. The 'members' table is selected. A query is run: `SELECT * FROM `members` ORDER BY `uname` DESC`. The results show two rows: one for 'Vishnupriya' and one for 'Devipriya'. Both rows have their 'Delete' and 'Edit' options highlighted. The table has columns: first\_name, last\_name, email, uname, pass, and regdate. The 'uname' column is set to primary key and descending order. Below the table, there are buttons for 'Check all', 'With selected', 'Edit', 'Copy', 'Delete', and 'Export'. The bottom section contains a 'Query results operations' panel with 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view' options. A 'Bookmark this SQL query' button is also present.

## Flight Availability Check Page (html) :

The page shows various sources and destinations for users to select from.

The screenshot shows a web page titled 'FLIGHT AVAILABILITY'. It has two main sections: '1. Source' and '1. Destination'. In the 'Source' section, 'Chennai' is selected. In the 'Destination' section, 'Mumbai' is selected. Below these sections is a 'Check Flights' button. A note at the bottom states: 'All these flights are available for the current month on the particular shown dates.' The page is running on port 8080 at localhost.

## Database Screenshot :

Database Screenshot of “Flight” table before any transaction.

The screenshot shows the phpMyAdmin interface for the 'placement' database. The left sidebar lists various databases and tables, with 'flight' selected under the 'placement' database. The main area displays the 'flight' table with 11 rows of data. The columns are: id, name, source, destination, timing, class, amount, tid, and seats. The data includes flights from Deccan Airline, XXX Airline, and YYYY Airline between cities like Chennai, Mumbai, Bangalore, and Delhi, with various seat amounts and timing details.

id	name	source	destination	timing	class	amount	tid	seats
0				0	A	3000	150	130
1	09876543	Deccan Airline	chennai	bangalore	26	3000	200	200
2	12345678	XXX Airline	chennai	mumbai	30	2000	200	200
3	12365487	XXX Airline	bangalore	chennai	29	3500	300	150
4	22294579	Deccan Airline	chennai	delhi	26	4000	800	200
5	44566721	Deccan Airline	bangalore	chennai	25	5500	400	180
6	45577809	Deccan Airline	delhi	chennai	28	5000	900	150
7	76896678	YYY Airline	chennai	delhi	27	3500	400	180
8	87654321	Deccan Airline	chennai	mumbai	29	3000	101	99
9	88324166	YYY Airline	bangalore	mumbai	24	7500	300	160
10	90989242	Deccan Airline	bangalore	chennai	28	4500	400	180

## View Available Flights (Servlet) :

(Logged in using another username “vishnu”) The flights which have the selected source and destination are shown in this page using Flight java class model and EJB session bean. There is also ticket booking module available. By filling in the number of seats and clicking book button the corresponding flight seats can be booked.

The screenshot shows a web browser displaying a page titled "Flights List". The page lists two flight options with their details and a booking form. The first flight is from chennai to mumbai on 30th, class A, with 2 seats available to be booked. The second flight is from chennai to mumbai on 29th, class B, with 1 seat available to be booked. A green "BOOK" button is present for each row.

Flight Id	Flight Name	Source	Destination	Date	Class	Number of Seats to be Booked
12345678	XXX Airline	chennai	mumbai	30	A	<input type="text" value="2"/> <button>BOOK</button>
87654321	Deccan Airline	chennai	mumbai	29	B	<input type="text"/> <button>BOOK</button>



## Payment Page (Servlet) :

This page shows the cost per seat and the total amount to be paid. By filling the card number and card name the tickets can be booked.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a form titled "Flight Details" with fields for "AMOUNT" (4000) and "TICKET ID" (200). Below this, a "Payment" section contains fields for "Card Number" (1234567), "Card Name" (vishnu), "Number of Seats" (2), and "Amount" (4000) which corresponds to the ticket ID. A "Ticket ID" field also shows the value 200. A "PAY" button is present at the bottom of the payment section. The background features a stylized orange and yellow graphic.

## Database Screenshot :

The Database Screenshot of “Account” table before any transaction.

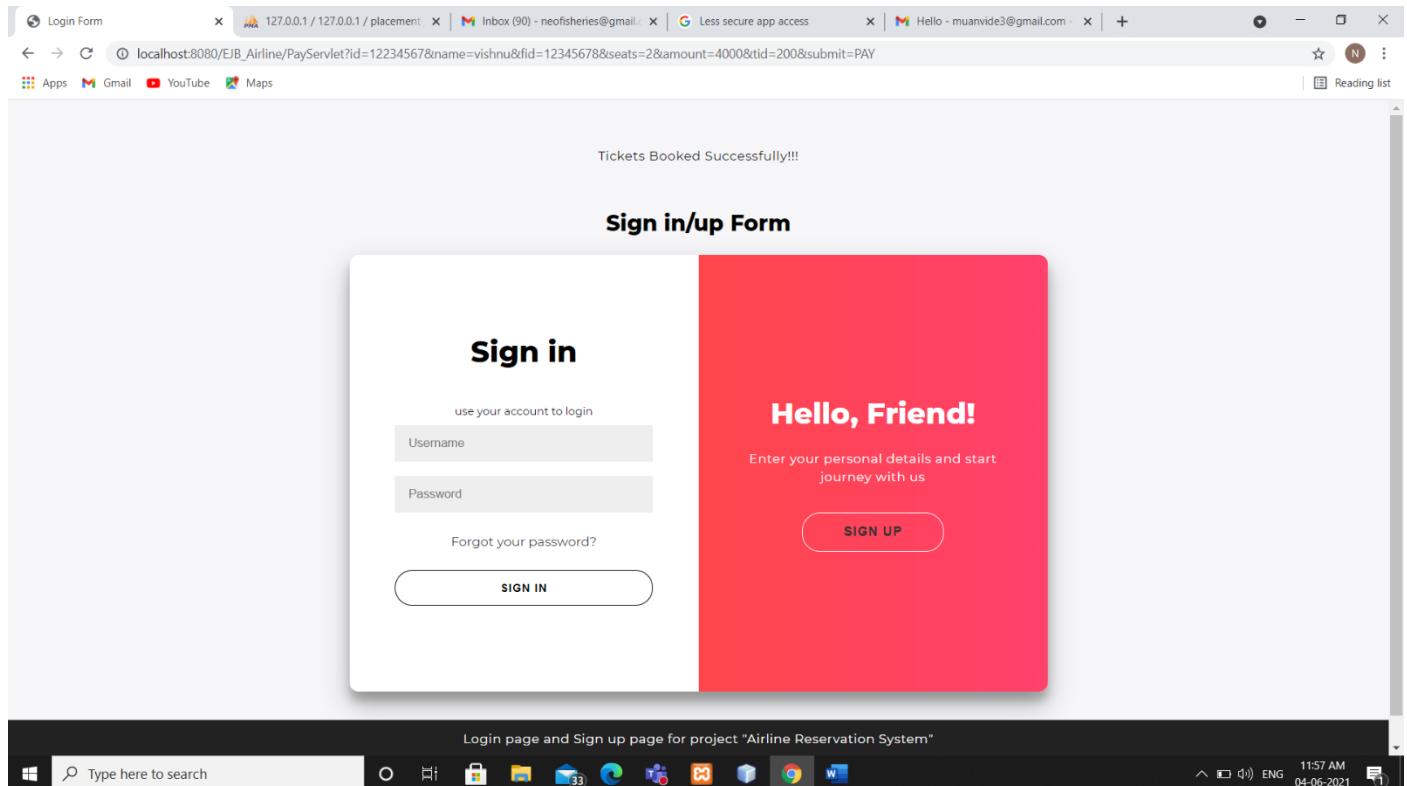
The screenshot shows the phpMyAdmin interface for the "placement" database. The left sidebar lists databases and tables, with "account" selected under the "placement" database. The main area shows the "account" table with one row of data:

	name	id	amount	tid	paid	seats	uname	fid
	vishnu	1234567	32000	0	0	0	vishnu	0

Below the table, there are "Query results operations" buttons for Print, Copy to clipboard, Export, Display chart, and Create view. At the bottom, there are "Bookmark this SQL query" and "Console" buttons.

## Login Page with Message (jsp) :

On successfully booking tickets, the redirected index page will have the following message “Tickets Booked Successfully!!!”



## Database Screenshot :

Database Screenshot of “Flight” after ticket booking. The available seats will be reduced and the ticket id will be increased. All these are done using Flight Java Class model and EJB session bean.

The screenshot shows the phpMyAdmin interface connected to a MySQL database. The left sidebar lists databases and tables, with "flight" selected under the "placement" database. The main area shows the "flight" table with 11 rows of data. The columns are: id, name, source, destination, timing, classs, amount, tid, and seats. The data includes various flight details like Deccan Airline from Chennai to Bangalore, Mumbai, and Delhi. Seats are listed as 130, 198, 150, 200, 180, 150, 180, 99, 160, and 180. Tid values range from 150 to 400. The screenshot also shows the "Query results operations" section at the bottom.

id	name	source	destination	timing	classs	amount	tid	seats
0	Deccan Airline	chennai	bangalore	26	A	3000	150	130
1	XYY Airline	chennai	mumbai	30	A	2000	202	198
2	XXX Airline	bangalore	chennai	29	B	3500	300	150
3	XXX Airline	chennai	delhi	26	A	4000	800	200
4	DeccaN Airline	bangalore	chennai	25	A	5500	400	180
5	DeccaN Airline	delhi	chennai	28	B	5000	900	150
6	YYY Airline	chennai	delhi	27	V.I.P	3500	400	180
7	DeccaN Airline	mumbai		29	B	3000	101	99
8	YYY Airline	bangalore	mumbai	24	A	7500	300	160
9	DeccaN Airline	bangalore	chennai	28	V.I.P	4500	400	180

## Database Screenshot :

Database Screenshot of “Account” Table after ticket booking. The paid amount, ticket id , flight id , number of seats booked and the balance amount will be updated. All these are done using “Account” Java class model and EJB session bean.

The screenshot shows the phpMyAdmin interface for the 'placement' database. The 'account' table is selected. A single row is highlighted with the following data:

	name	id	amount	tid	paid	seats	uname	fid
	vishnu	1234567	28000	200	4000	2	vishnu	12345678

## View Ticket Details Page (Servlet) :

This page retrieves the ticket details from the “Account” table using the session stored username(Foreign key) and shows all the flight details by retrieving it from “Flight” table using Flight id (Foreign key) from the account table. All these are done using both Flight and Account Java Class Models and EJB session beans.

The screenshot shows a web browser displaying the 'Ticket Details' page. The page contains the following information:

**Ticket Details**

- Ticket ID : 200
- Number of Seats : 2
- Ticket Class : A
- Ticket Cost : 4000

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**Flight Details**

- Flight ID : 12345678
- Flight Name : XXX Airline
- Source : chennai
- Destination : mumbai
- Flight Date : 30 JUNE 2021

## Ticket Cancellation Page (Html) :

This page has form which need to be filled to cancel the tickets.

The screenshot shows a 'Ticket Cancellation' page with a yellow background featuring stylized orange leaves and small trees. The page title is 'Ticket Cancellation'. It contains four input fields: 'Card Number' (1234567), 'Name on the Card' (vishnu), 'Flight ID' (12345678), and 'Ticket ID' (200). A 'CANCEL TICKETS' button is at the bottom. The browser's address bar shows 'localhost:8080/EJB\_Airline/cancel.html'. The taskbar at the bottom includes icons for search, file explorer, and various applications.

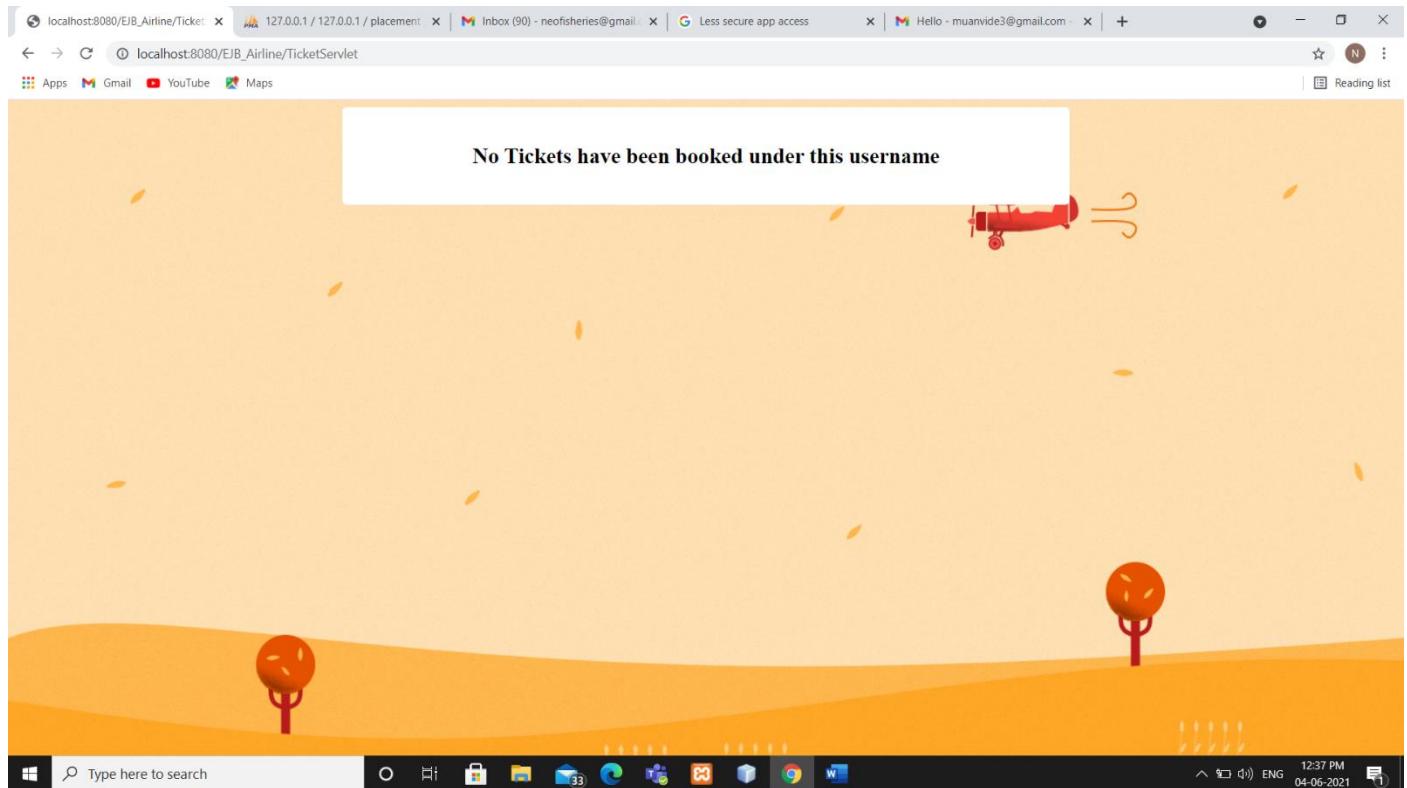
## Login Page with message (jsp) :

On successfully cancelling tickets, the redirected login page will have the message "Amount Refund Successfully!!!".

The screenshot shows a 'Login Form' page with a red header containing the message 'Amount Refund Successful!!!'. Below it is a 'Sign in/up Form' section. On the left, there is a 'Sign in' form with fields for 'Username' and 'Password', and links for 'Forgot your password?' and 'SIGN IN'. On the right, there is a red 'Hello, Friend!' section with the text 'Enter your personal details and start journey with us' and a 'SIGN UP' button. The browser's address bar shows 'localhost:8080/EJB\_Airline/CancelServlet?id=1234567&name=vishnu&fid=12345678&tid=200'. The taskbar at the bottom includes icons for search, file explorer, and various applications.

## Ticket Details Page after cancellation (Servlet) :

If the “Account” table has Flight id , Ticket id as zero then the ticket details page will show the that the current session stored username has no tickets booked.



## Database Screenshot :

Database Screenshot of “Account” Table after ticket cancellation. The paid amount will be added to the available balance amount. The ticket id , Flight id , the number of seats booked will be set to be zero. The paid amount will also set to be zero. All these are done using Account Java Class Model and EJB session bean.

A screenshot of the phpMyAdmin interface. The left sidebar shows databases like 'assess1', 'ejb\_db', 'id9128923\_project', 'information\_schema', 'mysql', 'performance\_schema', 'phpmyadmin', 'placement', and 'shop'. The 'placement' database is selected. Inside 'placement', the 'account' table is selected. The table structure includes columns: name, id, amount, tid, paid, seats, uname, and fid. A single row is shown: vishnu, 12234567, 32000, 0, 0, 0, vishnu, 0. Below the table, there are buttons for Edit, Copy, Delete, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers. At the bottom, there are buttons for Print, Copy to clipboard, Export, Display chart, Create view, and a 'Bookmark this SQL query' section.

## Database Screenshot :

Database Screenshot of “Flight” Table after ticket cancellation. The cancelled tickets will be added to the available seats and the ticket id will be reduced accordingly. All these calculations and update in the database are done using Flight Java Class Model and EJB session bean.

The screenshot shows the phpMyAdmin interface for the 'flight' table in the 'placement' database. The table has columns: id, name, source, destination, timing, class, amount, tid, and seats. The data shows various flight entries with their details like airline name, departure city, arrival city, timing, class, amount, ticket ID, and seats. Some rows show negative values for 'tid' and 'seats', indicating cancellations. The interface includes a SQL query editor at the top, a results table below it, and various navigation and search tools.

	id	name	source	destination	timing	class	amount	tid	seats
0	0	Deccan Airline	chennai	bangalore	26	A	3000	150	130
1	0	XXX Airline	chennai	mumbai	30	A	2000	200	200
2	0	XXX Airline	bangalore	chennai	29	B	3500	300	150
3	0	Deccan Airline	chennai	delhi	26	A	4000	800	200
4	0	Deccan Airline	bangalore	chennai	25	A	5500	400	180
5	0	Deccan Airline	delhi	chennai	28	B	5000	900	150
6	0	YYY Airline	chennai	delhi	27	V.I.P	3500	400	180
7	0	Deccan Airline	chennai	mumbai	29	B	3000	101	99
8	0	YYY Airline	bangalore	mumbai	24	A	7500	300	160
9	0	Deccan Airline	bangalore	chennai	28	V.I.P	4500	400	180

## Ticket Reservation Form Page (html) :

This page has a reservation page to be filled for booking tickets and generated captcha to be filled correctly. The captcha is generated using JavaScript.

The screenshot shows a web browser displaying a 'Reservation Form'. The form contains fields for Flight Name (XXX Airline), Flight ID (12345678), Source (chennai), Destination (mumbai), Number of Seats (5), and Class (Economy). Below the form is a CAPTCHA input field containing 'gHSS' and a 'Refresh' button. At the bottom is a 'BOOK TICKETS' button. The background features abstract orange and yellow shapes.

## Payment Page (Servlet) :

The page has form to be filled for ticket booking. The card number and card name should be given as input by the user. The cost per ticket and total amount to be paid are calculated.

AMOUNT	10000
TICKET ID	200

### Payment

Card Number:

Card Name:

Number of Seats:

Amount:  Ticket ID:

## Login Page with message (jsp) :

On successfully booking the tickets, the redirected login page will show the message “Ticket Booked Successfully!!!”.

Tickets Booked Successfully!!!

### Sign in/up Form

**Sign in**

use your account to login

Username

Password

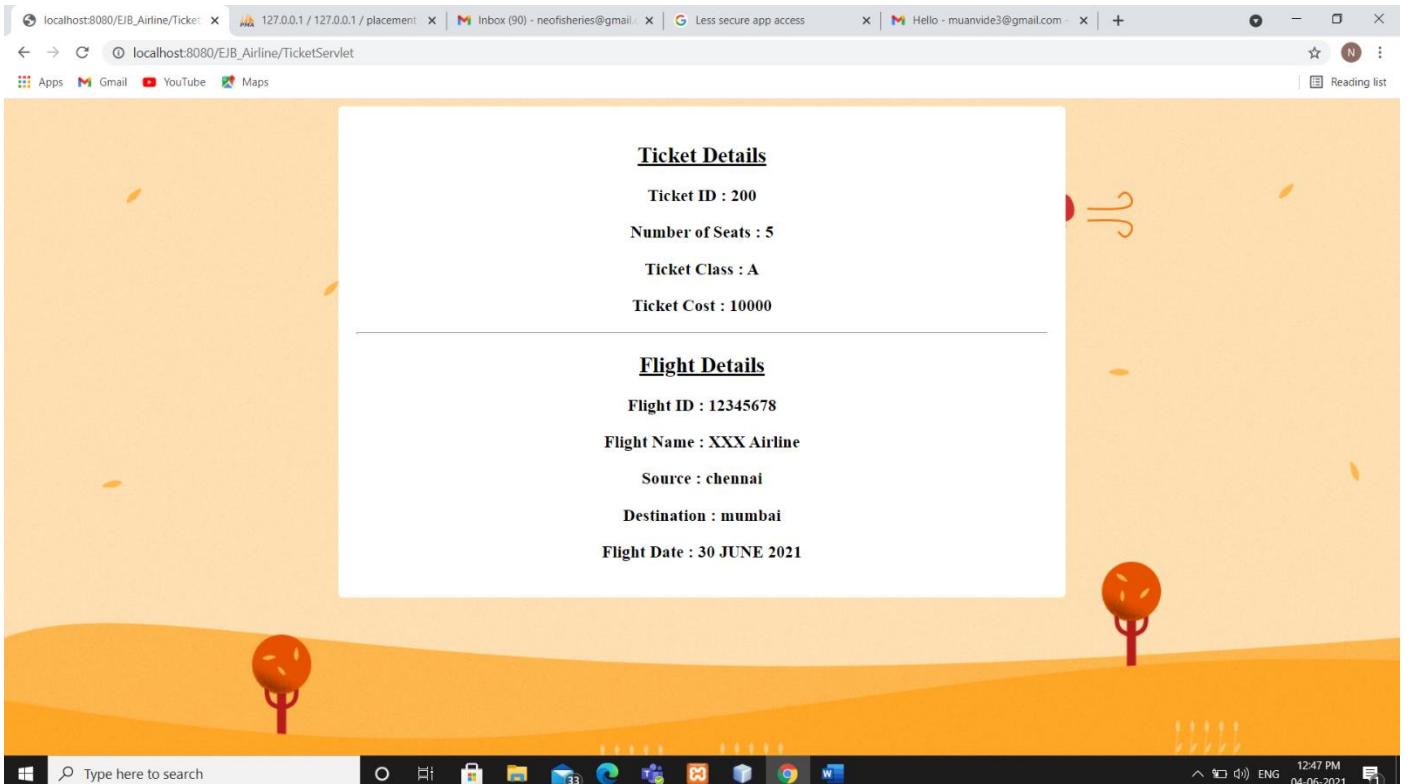
[Forgot your password?](#)

**Hello, Friend!**

Enter your personal details and start journey with us

## Ticket Details Page after ticket Booking (Servlet) :

The ticket details and Flight details will be shown by retrieving the corresponding lines from the database. The session saved username is used to retrieve Account details. Then using Flight id from “Account” table, the flight details are retrieved from “Flight” table.



## Database Screenshot :

Database Screenshot of “Account” table after ticket Booking. The ticket id, Flight id , amount to be paid and total balance amount are calculated in the Servlet and updated using Account Java Class Model and EJB stateless session bean.

**Server: 127.0.0.1 > Database: placement > Table: account**

**Browse** **Structure** **SQL** **Search** **Insert** **Export** **Import** **Privileges** **Operations** **Tracking** **Triggers**

Showing rows 0 - 0 (total, Query took 0.0031 seconds.)

SELECT \* FROM `account`

Show all | Number of rows: 25 Filter rows: Search this table

	name	id	amount	tid	paid	seats	uname	fid
<input type="checkbox"/>	vishnu	12234567	22000	200	10000	5	vishnu	12345678

+ Options  Edit  Copy  Delete vishnu  Check all  With selected:  Edit  Copy  Delete  Export

Show all | Number of rows: 25 Filter rows: Search this table

Query results operations  Print  Copy to clipboard  Export  Display chart  Create view

Bookmark this SQL query  Label:  Let every user access this bookmark  Bookmark this SQL query

Console

## Database Screenshot :

Database Screenshot of “Flight” table after ticket booking. The available seats will be reduced and the ticket id will be increased. The cost of ticket is also retrieved from this table for amount calculation. The update is done using Flight Java Class Model and EJB session bean.

The screenshot shows the phpMyAdmin interface for the 'placement' database. The 'account' table is selected. A single row is visible in the results table:

	name	id	amount	tid	paid	seats	uname	fid
	vishnu	12234567	22000	200	10000	5	vishnu	12345678

Below the table, there are buttons for Edit, Copy, Delete, and Export. The status bar at the bottom indicates the query took 0.0031 seconds.

## Logout :

On clicking the “Logout” button in the home page, the system will remove all the stored session information. And the user will be redirected to the index page.

The screenshot shows the 'Login Form' page with a 'Sign in/up Form'. The left side contains a 'Sign in' section with fields for Username and Password, and links for 'Forgot your password?' and 'SIGN IN'. The right side is a red panel with the heading 'Hello, Friend!' and the text 'Enter your personal details and start journey with us', along with a 'SIGN UP' button.

At the bottom, a footer note states: "Login page and Sign up page for project "Airline Reservation System""