



**CSE370 : Database Systems**  
**Project Report**  
**Project Title : Online Flight Reservation**

Group No : _5_, CSE370 Lab Section : _5_, Spring 2024		
ID	Name	Contribution
21201558	Md. Rashed Fahim Chowdhury	Front end, Backend
20301389	Ashiqur Rahman Turzo	Frontend, Backend
23241054	Juaria Tashin	Frontend, Backend
20201032	Sumaiya Hossain	Frontend, Backend
21201366	Muhammad Tasib Ahasan	Frontend, Backend

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## **Introduction**

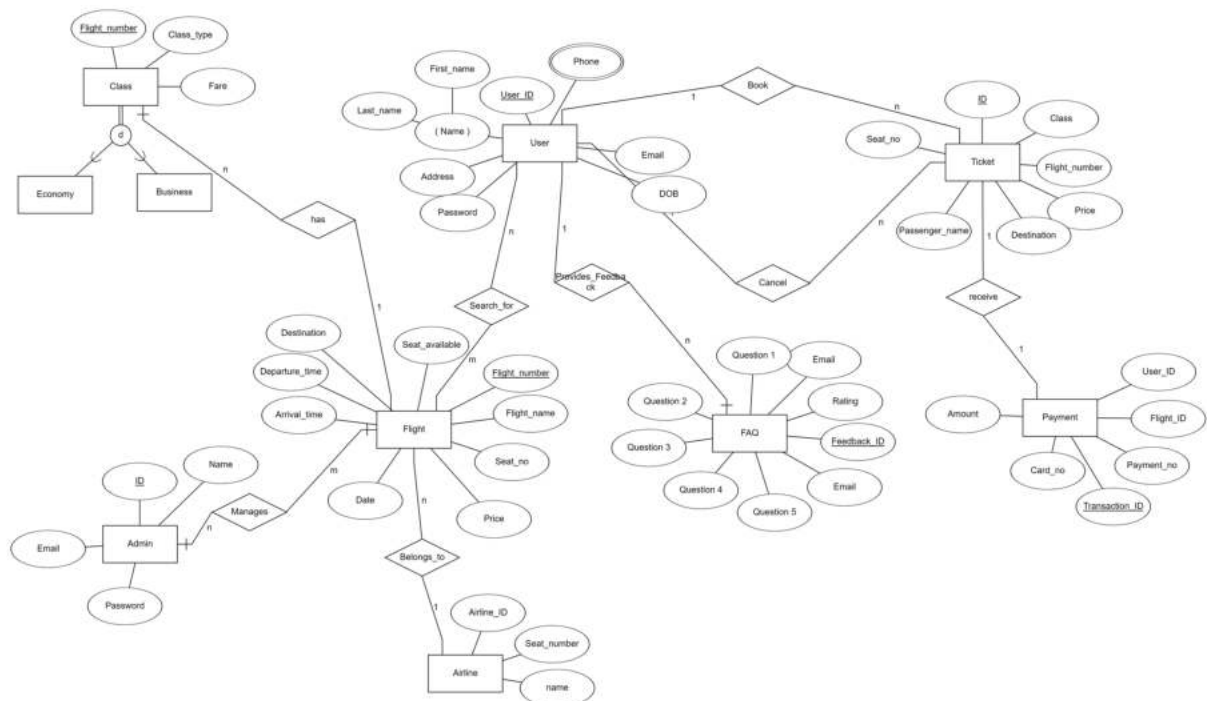
Our project intends to launch a cutting-edge online travel booking platform that provides customers with a smooth and effective booking experience.

The main goal of our project is to create an advanced online application that uses state-of-the-art technology to give consumers a full range of options for looking through, choosing, and booking flights. Our website provides a safe and dependable platform for passengers to look through flight alternatives, compare costs, and complete transactions with confidence because it is built upon strong frameworks and industry-standard procedures.

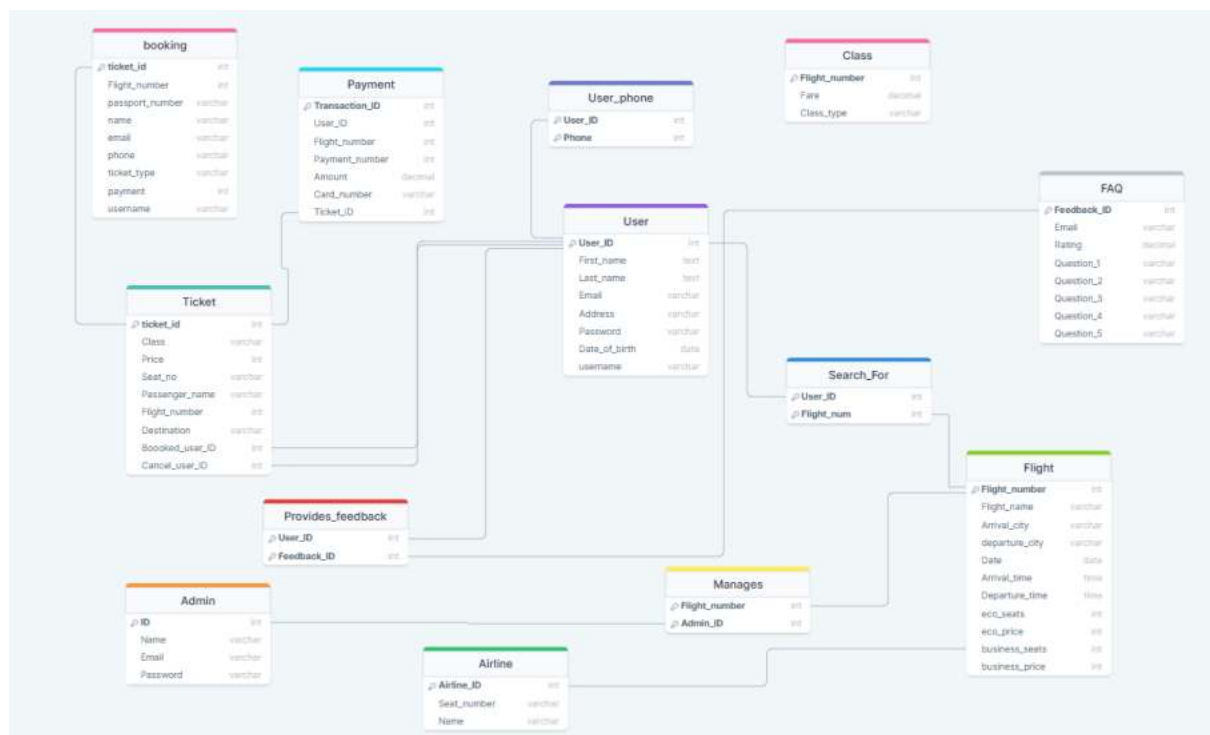
## **Project Features**

1. **Different Homepage for admins and users :** When users and admins log in to the website, they see different homepages according to their respective needs.
2. **Modifying and deleting flight schedules (Admin Panel):** This feature enables admins to change or remove flight details, ensuring the accuracy and currency of flight schedules.
3. **User registration:** Users can register accounts securely, enabling personalized experiences and streamlined booking processes through login authentication.
4. **Flight schedules in 24hrs format:** Displaying flight schedules in 24-hour format enhances clarity and avoids confusion, providing users with easily understandable time representations.
5. **Payment Methods:** Simplifying transactions by accepting payments in dollars for all customers ensures consistency and convenience across international users, reducing currency exchange complexities.
6. **Customer Services and FAQ for Feedback:** Provide a seamless flight booking experience with user-friendly interfaces and secure payment processing, ensuring customer satisfaction at every step. Also feedback option is added to collect users suggestions, and experiences to help us continuously improve and tailor our services to meet your needs better.

## ER/EER Diagram



## Schema Diagram

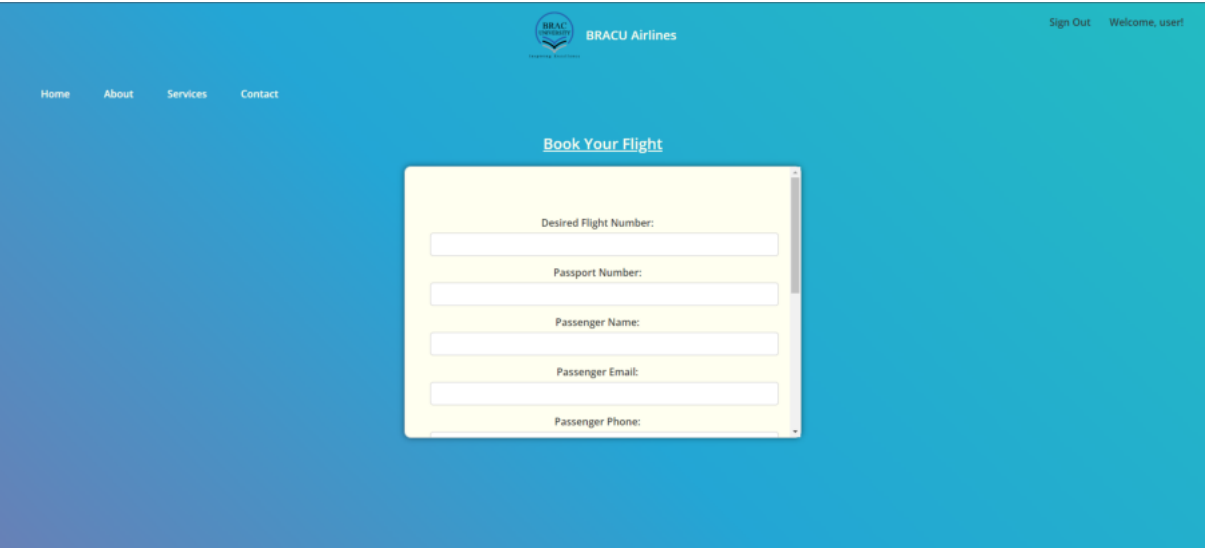
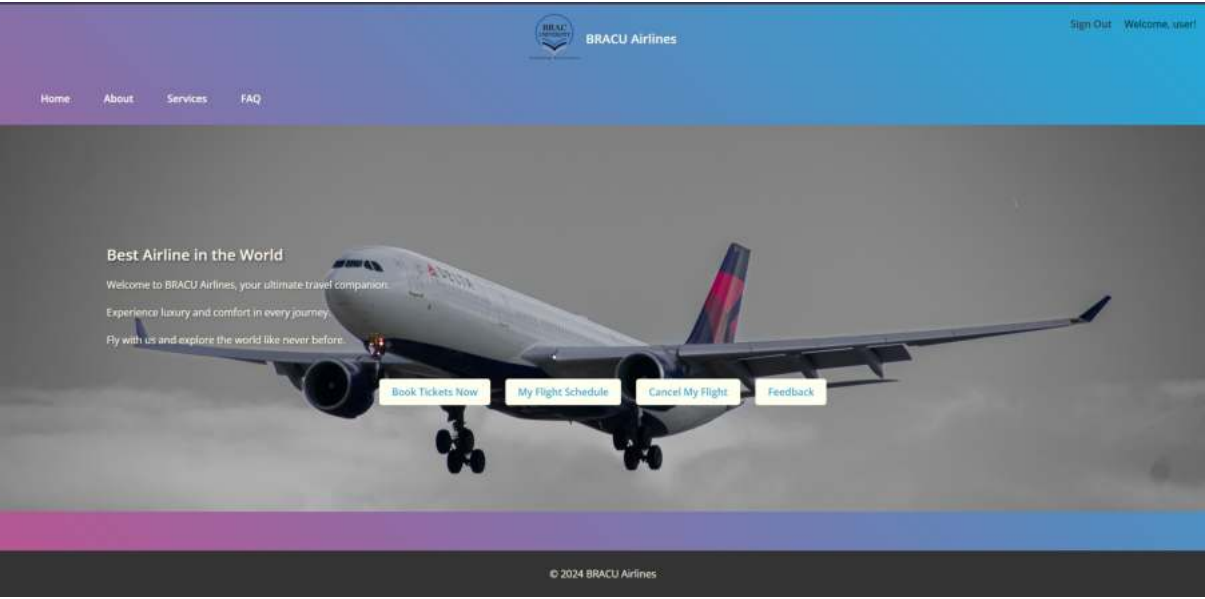


## **Frontend Development**

**Briefly discuss about Frontend Development and add Screenshots by mentioning Individual Contributions**

**Contribution of ID : 21201558, Name : Md. Rashed Fahim Chowdhury**

- I have used CSS to style your HTML elements and create a visually appealing layout. This includes setting background images, defining fonts, colors, padding, margins, and borders to make the content visually appealing and readable.
- created forms for user interaction, such as User home, Admin Panel, ,Book Ticket now, Delete Flight,Feedback and Payment . These forms include various input fields for submitting the form data. Also included navigation elements like buttons or links to navigate between different pages of the website.

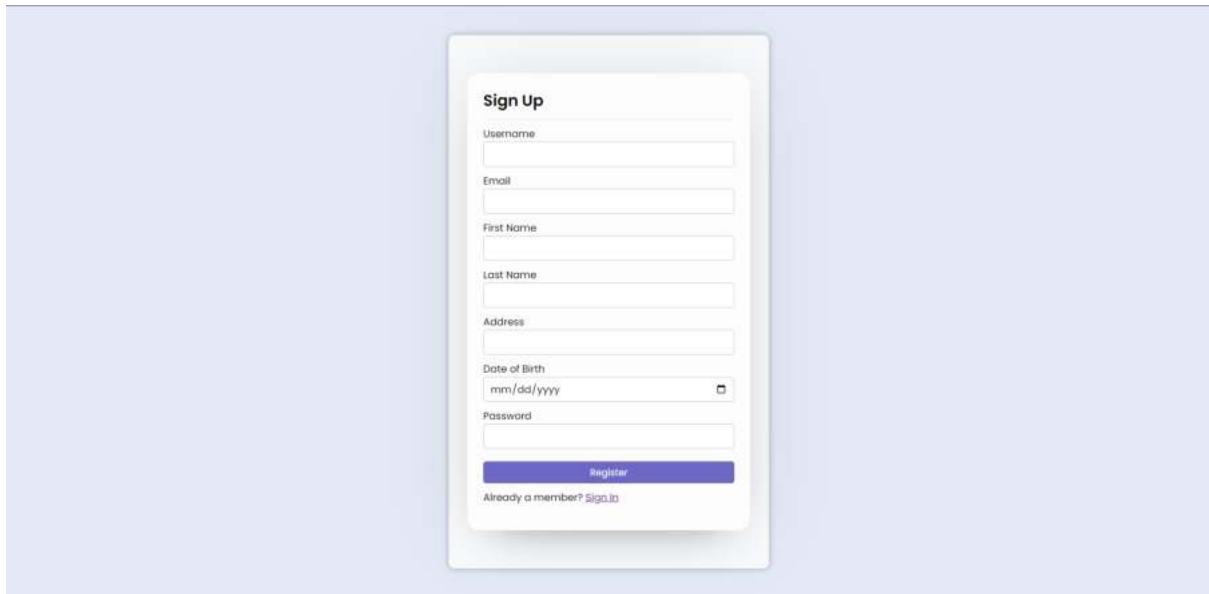




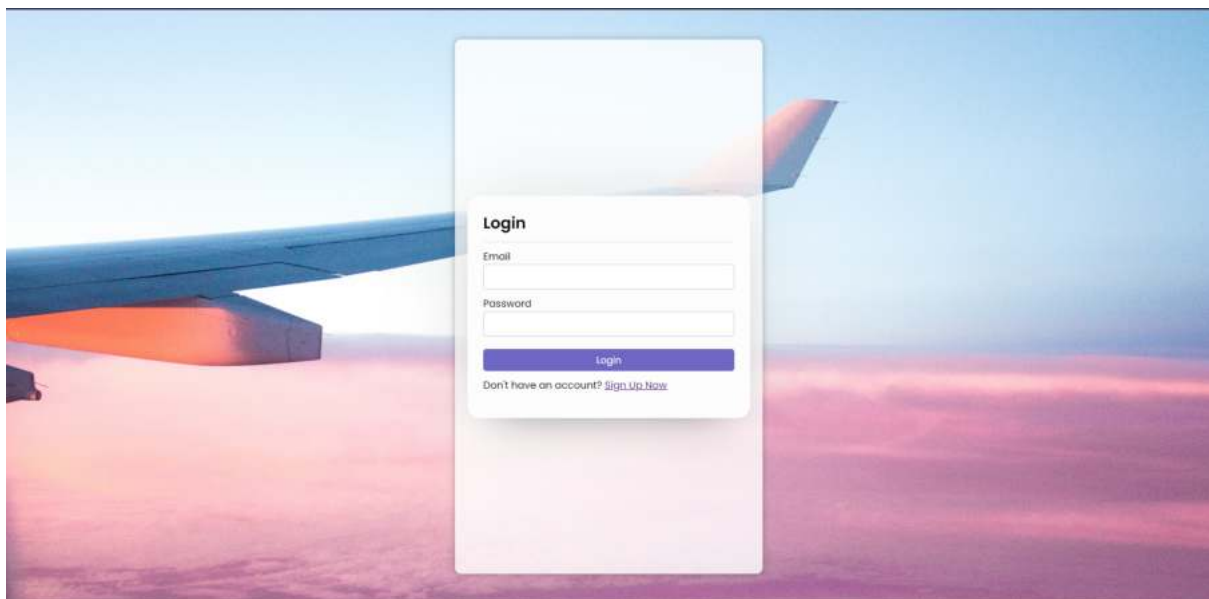


**Contribution of ID : 20301389, Name : Ashiqur Rahman Turzo**

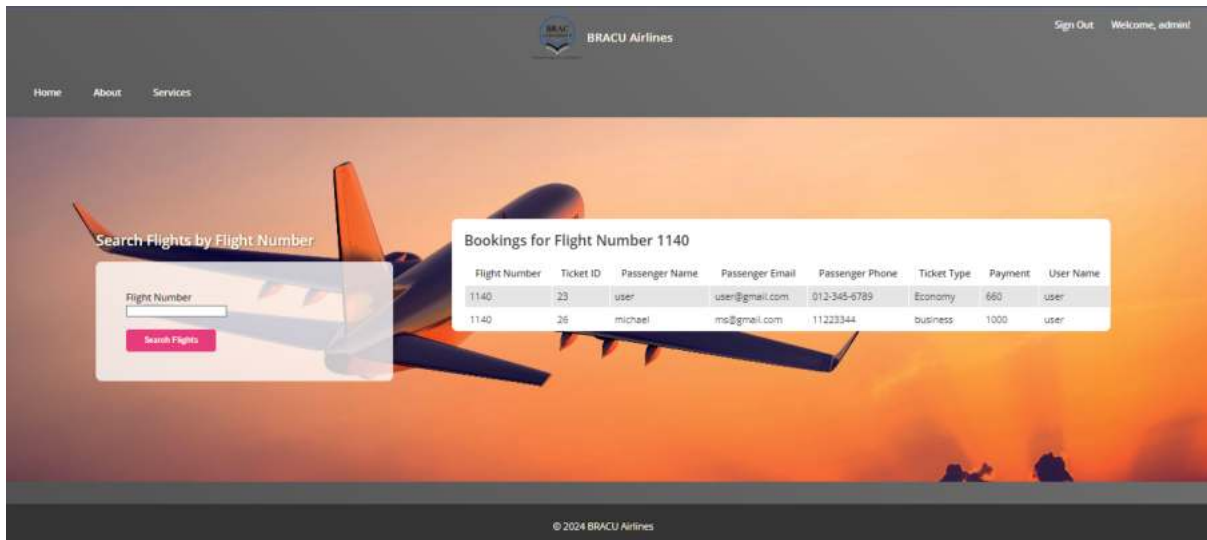
**Worked On:** User registration and login page. Also, on the “Show Flight Bookings” Page.



A 'Sign Up' form is displayed on a light purple background. The form is white with a thin grey border and contains the following fields: Username, Email, First Name, Last Name, Address, Date of Birth (with a placeholder 'mm/dd/yyyy' and a calendar icon), and Password. A purple 'Register' button is at the bottom of the form, followed by the text 'Already a member? [Sign In](#)'.

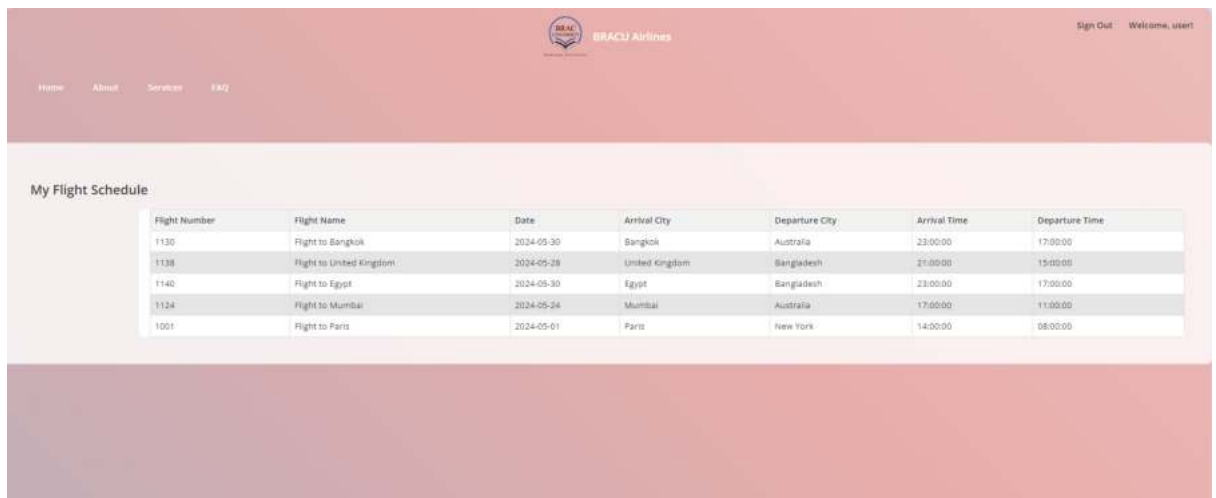



A 'Login' form is displayed on a background image of an airplane wing flying over a pink and purple sunset sky. The form is white with a thin grey border and contains the following fields: Email and Password. A purple 'Login' button is at the bottom of the form, followed by the text 'Don't have an account? [Sign Up Now](#)'.



### Contribution of ID : 23241054, Name : Juaria Tashin


- I have used CSS to style HTML elements and create a visually appealing layout.

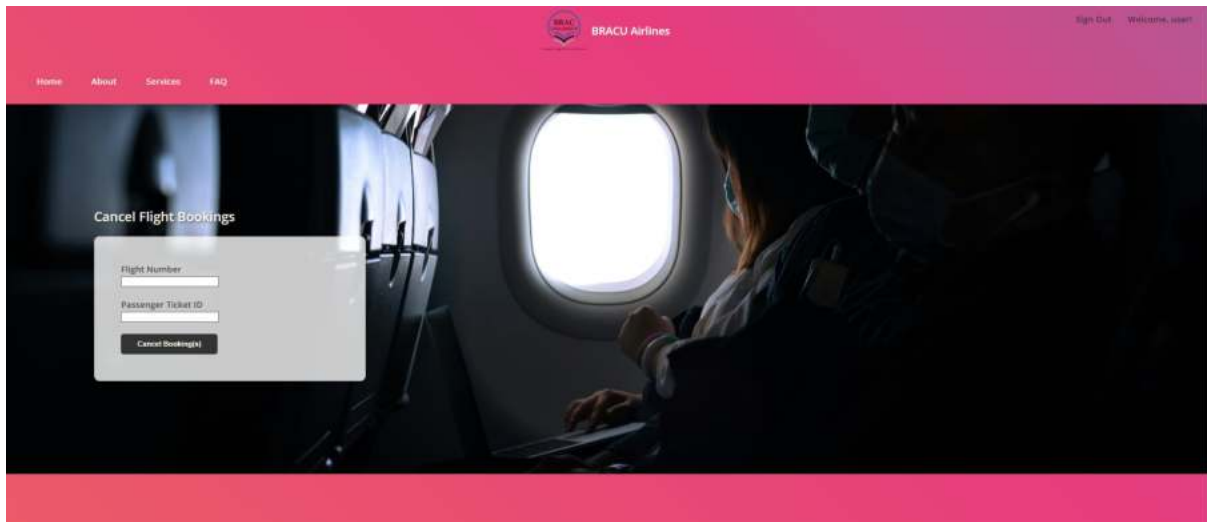


<div>  BRACU Airlines </div> <div> <a href="#">Home</a> <a href="#">About</a> <a href="#">Services</a> </div> <div> <a href="#">Sign Out</a> <a href="#">Welcome, admin!</a> </div>										
Flight Schedule										
Flight Number	Flight Name	Date	Arrival City	Departure City	Arrival Time	Departure Time	Economy Seats	Economy Price	Business Seats	Business Price
1001	Flight to Paris	2024-05-01	Paris	New York	14:00:00	08:00:00	148	300	20	600
1002	Flight to London	2024-05-02	London	Los Angeles	15:00:00	09:00:00	160	320	22	620
1003	Flight to Tokyo	2024-05-03	Tokyo	San Francisco	16:00:00	10:00:00	170	340	24	640
1004	Flight to Dubai	2024-05-04	Dubai	Chicago	17:00:00	11:00:00	180	360	26	660
1005	Flight to Sydney	2024-05-05	Sydney	Toronto	18:00:00	12:00:00	190	380	28	680
1006	Flight to Rome	2024-05-06	Rome	Houston	19:00:00	13:00:00	200	400	30	700
1007	Flight to Singapore	2024-05-07	Singapore	Miami	20:00:00	14:00:00	210	420	32	720
1008	Flight to Istanbul	2024-05-08	Istanbul	Seattle	21:00:00	15:00:00	220	440	34	740
1009	Flight to Seoul	2024-05-09	Seoul	Atlanta	22:00:00	16:00:00	230	460	36	760
1010	Flight to Beijing	2024-05-10	Beijing	Boston	23:00:00	17:00:00	240	480	38	780
1011	Flight to Madrid	2024-05-11	Madrid	Dallas	14:30:00	08:30:00	250	500	40	800
1012	Flight to Amsterdam	2024-05-12	Amsterdam	Denver	15:30:00	09:30:00	260	520	42	820
1013	Flight to Berlin	2024-05-13	Berlin	Detroit	16:30:00	10:30:00	270	540	44	840
1014	Flight to Moscow	2024-05-14	Moscow	Las Vegas	17:30:00	11:30:00	280	560	46	860

## Contribution of ID : 20201032 , Name : Sumaiya Hossain

The HTML elements have been styled and a visually pleasing layout has been created using CSS. To make the information aesthetically pleasing and understandable, I defined fonts, colors, padding, margins, and borders. This is for the FAQ section and Cancel Flight section.

<div>  BRACU Airlines </div> <div> <a href="#">Home</a> <a href="#">About</a> <a href="#">Services</a> </div> <div> <a href="#">Sign Out</a> <a href="#">Welcome, user!</a> </div>										
Frequently Asked Questions (FAQ)										
<b>How do I book a flight?</b> To book a flight, simply log into your account, search for available flights, select your desired flight, and proceed with the booking process.										
<b>What payment methods are accepted?</b> We accept payments via major credit cards (Visa, MasterCard, American Express), debit cards, and online payment platforms such as PayPal.										
<b>Can I cancel or modify my booking?</b> Yes, you can modify or cancel your booking depending on the airline's policies. Please check your booking confirmation email for details or contact our customer support.										
<b>Are meals included in the ticket?</b> Meal options vary by flight and class. Some flights offer complimentary meals, while others have meal options available for purchase. You can check during the booking process.										
<b>What should I do if my flight is delayed or canceled?</b> In case of flight delays or cancellations, the airline will notify you via email or SMS. You can also check your flight status on our website or contact our customer support for assistance.										
<b>How can I retrieve my booking confirmation?</b> Your booking confirmation is sent to the email address provided during the booking process. If you haven't received it, please check your spam folder. You can also log in to your account to view and print your booking details.										



**Contribution of ID : 21201366, Name : Muhammad Tasib Ahasan**

I have worked on “Modify Flight Schedule” and “Add Flight Schedule page”. With HTML,CSS and JavaScript I have added layout, colors, fonts, animations and created dynamic tables.

BRACU

UNIVERSITY

BRACU Airlines

Inspiring Excellence

Sign Out

You are not logged in.

Home

About

Services

Contact

Edit Flight Schedules

departure City:

Arrival Time:

-- :00 --

Departure Time:

-- :00 --

Economy Seats:

Economy Price:

Business Seats:

Business Price:

Save Changes

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Sign Out

You are not logged in.

Home

About

Services

Contact

Edit Flight Schedules

Flight Number	Flight Name	Date	Arrival City	Departure City	Arrival Time	Departure Time	eco_seats	eco_price	business_seats	business_price	Action
1001	Flight to Paris	2024-05-01	Paris	New York	14:00:00	08:00:00	150	300	20	600	<div>Edit</div>
1002	Flight to London	2024-05-02	London	Los Angeles	15:00:00	09:00:00	160	320	22	620	<div>Edit</div>
1003	Flight to Tokyo	2024-05-03	Tokyo	San Francisco	16:00:00	10:00:00	170	340	24	640	<div>Edit</div>
1004	Flight to Dubai	2024-05-04	Dubai	Chicago	17:00:00	11:00:00	180	360	26	660	<div>Edit</div>
1005	Flight to Sydney	2024-05-05	Sydney	Toronto	18:00:00	12:00:00	190	380	28	680	<div>Edit</div>
1006	Flight to Rome	2024-05-06	Rome	Houston	19:00:00	13:00:00	200	400	30	700	<div>Edit</div>
1007	Flight to Singapore	2024-05-07	Singapore	Miami	20:00:00	14:00:00	210	420	32	720	<div>Edit</div>
1008	Flight to Istanbul	2024-05-08	Istanbul	Seattle	21:00:00	15:00:00	220	440	34	740	<div>Edit</div>

BRACU

UNIVERSITY

BRACU Airlines

Sign Out

Welcome, admin

Home

About

Services

Add Flight Schedules

Flight Number

Flight Name

Date

Arrival City

Arrival Time

Departure City

Departure Time

Number Of Seats | Economy Class

Ticket Price | Economy Class

Number Of Seats | Business Class

Ticket Price | Business Class

Add Flight Schedule

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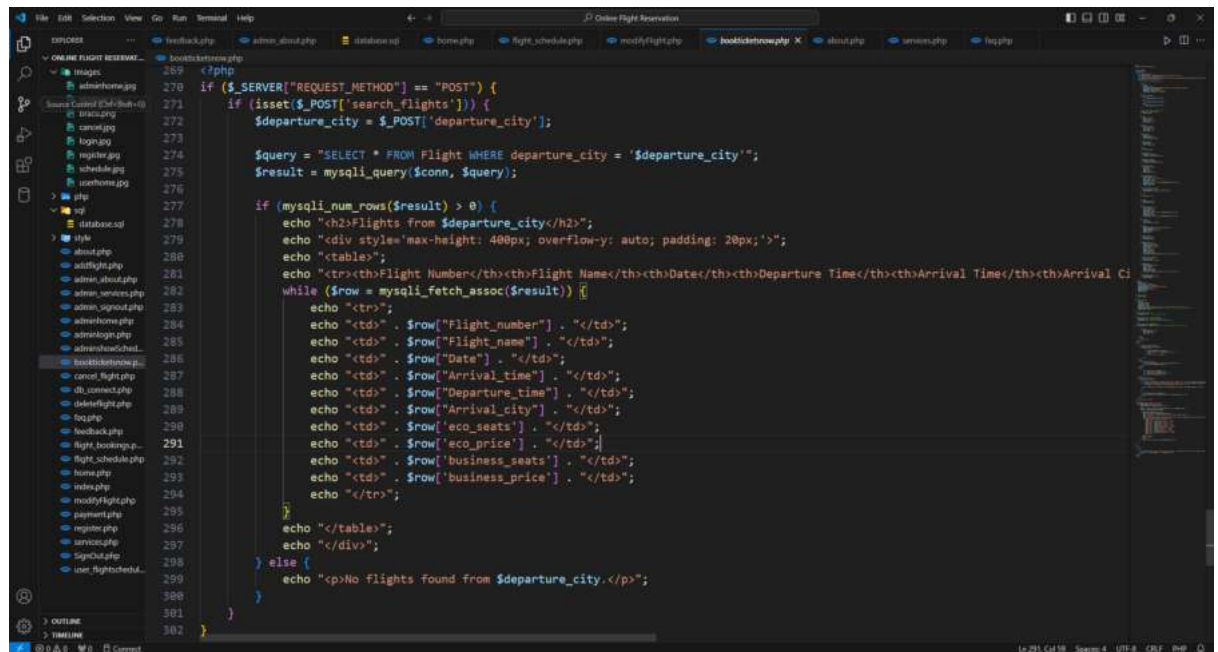
14

## Backend Development

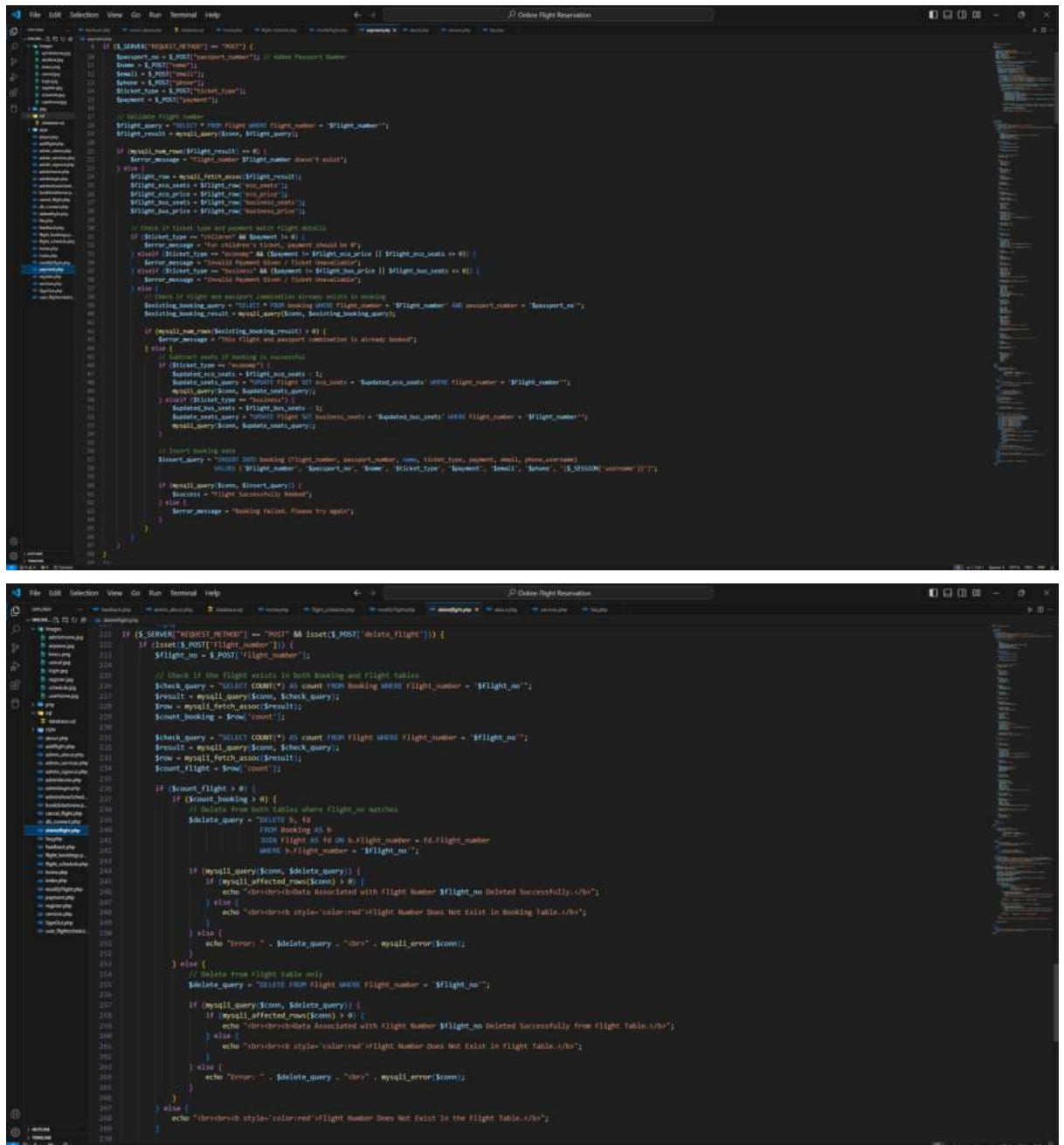
Briefly discuss about Backend Development and add Screenshots by mentioning Individual Contributions

Contribution of ID : 21201558, Name : Md. Rashed Fahim Chowdhury

- Used HTML, PHP, SQL Queries for Booking Ticket in User panel  
bookticketsnow.php file. Also created the Payment page payment.php. Used SQL to store the information when user books a ticket. Also worked on delete.php file. When the admin tries to delete a flight from Admin Panel I made sure that it gets delete from the both flight table and the booking table. Created feedback.php file to store the feedbacks from the users and their ratings to know about experiences with the online flight reservation system.



```
269 <?php
270 if ($_SERVER["REQUEST_METHOD"] == "POST") {
271     if (isset($_POST['search_flights'])) {
272         $departure_city = $_POST['departure_city'];
273
274         $query = "SELECT * FROM Flight WHERE departure_city = '$departure_city'";
275         $result = mysqli_query($conn, $query);
276
277         if (mysqli_num_rows($result) > 0) {
278             echo "<h2>Flights from $departure_city</h2>";
279             echo "<div style='max-height: 400px; overflow-y: auto; padding: 20px;'>";
280             echo "<table>";
281             echo "<tr><th>Flight Number</th><th>Flight Name</th><th>Date</th><th>Departure Time</th><th>Arrival Time</th><th>Arrival City</th></tr>";
282             while ($row = mysqli_fetch_assoc($result)) {
283                 echo "<tr>";
284                 echo "<td> . $row['Flight_number'] . "</td>";
285                 echo "<td> . $row['Flight_name'] . "</td>";
286                 echo "<td> . $row['Date'] . "</td>";
287                 echo "<td> . $row['Arrival_time'] . "</td>";
288                 echo "<td> . $row['Departure_time'] . "</td>";
289                 echo "<td> . $row['Arrival_city'] . "</td>";
290                 echo "<td> . $row['eco_seats'] . "</td>";
291                 echo "<td> . $row['eco_price'] . "</td>";
292                 echo "<td> . $row['business_seats'] . "</td>";
293                 echo "<td> . $row['business_price'] . "</td>";
294                 echo "</tr>";
295             }
296             echo "</table>";
297             echo "</div>";
298         } else {
299             echo "<p>No flights found from $departure_city.</p>";
300         }
301     }
302 }
```



**Contribution of ID : 20101998, Name : Ashiqur Rahman Turzo.**

- I worked on the flight\_bookings.php (“Show Flight Bookings” on the admin homepage). For that I incorporated HTML and, mainly PHP and MySQL queries.
- Also, I worked on register.php and index.php - these files are for User Registration and Login. Similar to “Show Flight Bookings”, I used HTML, PHP and MySQL queries here as well.



## flight\_bookings.php

```
<?php
session_start();
$servername = "localhost"; // for the database server name
$username = "root"; // the database username
$password = ""; // the database password
$dbname = "database"; // the database name

// Connection creation
$conn = new mysqli($servername, $username, $password, $dbname);

// Connection checking
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```

```
<div class="top-right-options">
    <a href="admin_signout.php">Sign Out</a>
    <a href="#"><?php
        if (isset($_SESSION['Name'])) {
            echo "Welcome, " . $_SESSION['Name'] . "!";
        } else {
            echo "You are not logged in.";
        }
    ?>
    </a>
</div>
```

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (isset($_POST['search_flights'])) {
        $flight_number = $_POST['Flight_number'];

        $query = "SELECT * FROM Booking WHERE Flight_number = '$flight_number'";
        $result = mysqli_query($conn, $query);

        if (mysqli_num_rows($result) > 0) {
            echo "<h2>Bookings for Flight Number $flight_number</h2>";
            echo "<div style='max-height: 400px; overflow-y: auto;'>";
            echo "<table>";
            echo "<tr><th>Flight Number</th><th>Ticket ID</th><th>Passenger Name</th><th>Passenger Email</th><th>Passenger Phone</th><th>Ticket Type</th><th>Payment</th><th>Username</th></tr>";
            while ($row = mysqli_fetch_assoc($result)) {
                echo "<tr>";
                echo "<td>" . $row["Flight_number"] . "</td>";
                echo "<td>" . $row["ticket_id"] . "</td>";
                echo "<td>" . $row["name"] . "</td>";
                echo "<td>" . $row["email"] . "</td>";
                echo "<td>" . $row["phone"] . "</td>";
                echo "<td>" . $row["ticket_type"] . "</td>";
                echo "<td>" . $row["payment"] . "</td>";
                echo "<td>" . $row["username"] . "</td>";
                echo "</tr>";
            }
            echo "</table>";
        }
    }
    echo "</div>";
}
```

```

    } else {
        echo "<p>No bookings found for Flight Number $Flight_number.</p>";
    }
}
?>

```

## index.php

```

<?php
    session_start();
?>

```

```

<?php
include("php/config.php");
if(isset($_POST['submit'])){
    $email = mysqli_real_escape_string($con,$_POST['email']);
    $password = mysqli_real_escape_string($con,$_POST['password']);

    $result = mysqli_query($con,"SELECT * FROM user WHERE Email='$email' AND Password='$password' ") or die("Select Error");
    $row = mysqli_fetch_assoc($result);

    if(is_array($row) && !empty($row)){
        $_SESSION['valid'] = $row['Email'];
        $_SESSION['username'] = $row['Username'];
        $_SESSION['age'] = $row['Age'];
        $_SESSION['id'] = $row['Id'];
    }else{
        echo "<div class='message'>
            <p>Wrong Username or Password</p>
        </div> <br>";
        echo "<a href='index.php'><button class='btn'>Go Back</button>";

    }

    if(isset($_SESSION['valid'])){
        header("Location: home.php");
    }
}

```

```

}else{
?>

```

## register.php

```

<?php
include("php/config.php");
if(isset($_POST['submit'])){
    $username = $_POST['username'];
    $email = $_POST['email'];
    $dob = $_POST['Date_of_Birth'];
    $password = $_POST['password'];
    $first_name = $_POST['first_name'];
    $last_name = $_POST['last_name'];
    $address = $_POST['address'];

    // Verify the unique email
    $verify_query = mysqli_query($con,"SELECT Email FROM user WHERE Email='$email'");

    if(mysqli_num_rows($verify_query) != 0){
        echo "<div class='message'>
            <p>This email is already in use. Please try another one.</p>
        </div> <br>";
        echo "<a href='javascript:self.history.back()'><button class='btn'>Go Back</button>";
    }
    else{
        mysqli_query($con,"INSERT INTO user (Username, Email, Date_of_Birth, Password, First_name, Last_name, Address)
        VALUES ('$username', '$email', '$dob', '$password', '$first_name', '$last_name', '$address')")
        or die("Error Occurred");
    }
}

```

```

    echo "<div class='message'>
        <p>Registration successful!</p>
    </div> <br>";
    echo "<a href='index.php'><button class='btn'>Login Now</button>";
}
} else {
?>

```

### Contribution of ID : 23241054, Name : Juaria Tashin

- I have used PHP code to create a connection to the database.
- I Also used a SQL query for constructing to retrieve flight booking information for the logged-in user. This query typically involves joining the Flight and Booking tables based on the flight number.
- Handling user authentication (\$\_SESSION['username']) to ensure that only authenticated users can access the flight schedule page.
- The flight details are usually displayed in HTML tables, where each row is corresponding to a reservation. Dynamic HTML markup with flight information can be generated using PHP echo statements.

### For “Show Flight Schedule”:

```

<?php
require_once('db_connect.php');
?>

```

```

<?php
// Connect to the database
$mysqli = new mysqli("localhost", "root", "", "database");

// Check connection
if ($mysqli->connect_error) {
    die("Connection failed: " . $mysqli->connect_error);
}

// Fetch flight schedules from the database
$sql = "SELECT * FROM Flight";
$result = $mysqli->query($sql);
?>

```

```

<?php
if ($result->num_rows > 0) {
    // Output data of each row
    while ($row = $result->fetch_assoc()) {
        echo "<tr>";
        echo "<td>" . $row['Flight_number'] . "</td>";
        echo "<td>" . $row['Flight_name'] . "</td>";
        echo "<td>" . $row['Date'] . "</td>";
        echo "<td>" . $row['Arrival_city'] . "</td>";
        echo "<td>" . $row['departure_city'] . "</td>";
        echo "<td>" . $row['Arrival_time'] . "</td>";
        echo "<td>" . $row['Departure_time'] . "</td>";
        echo "<td>" . $row['eco_seats'] . "</td>";
        echo "<td>" . $row['eco_price'] . "</td>";
        echo "<td>" . $row['business_seats'] . "</td>";
        echo "<td>" . $row['business_price'] . "</td>";
        echo "</tr>";
    }
} else {
    echo "<tr><td colspan='11'>No flight schedules available</td></tr>";
}
}

```

For “My Flight Schedule”:

```

<?php
require_once('db_connect.php');
?>

```

```

// Check if the user is logged in
if (!isset($_SESSION['username'])) {
    header("Location: login.php"); // Redirect to login page if not logged in
    exit();
}

$username = $_SESSION['username']; // Get the username from the session

// Query to retrieve booked flights for the user
$query = "SELECT Flight.*, Booking.ticket_type
FROM Flight
INNER JOIN Booking ON Flight.Flight_number = Booking.Flight_number
WHERE Booking.username = '$username'";

$result = mysqli_query($conn, $query);

?>

```

```

while ($row = mysqli_fetch_assoc($result)) {
    // Fetch flight details based on flight number
    $flightNumber = $row['Flight_number'];
    $flightQuery = "SELECT * FROM Flight WHERE Flight_number = $flightNumber";
    $flightResult = mysqli_query($conn, $flightQuery);
    $flight = mysqli_fetch_assoc($flightResult);
}

```

```

<div class="results-section">
    <?php
    // Check if there are any flights booked by the user
    // Check if there are any flights booked by the user
    if (mysqli_num_rows($result) > 0) {
        // Display flight schedules in table
        echo "<table class='flight-table'>";
        echo "<thead><tr>";
        echo "<th>Flight Number</th>";
        echo "<th>Flight Name</th>";
        echo "<th>Date</th>";
        echo "<th>Arrival City</th>";
        echo "<th>Departure City</th>";
        echo "<th>Arrival Time</th>";
        echo "<th>Departure Time</th>";
        echo "<tbody>";

        while ($row = mysqli_fetch_assoc($result)) {
            // Fetch flight details based on flight number
            $flightNumber = $row['Flight_number'];
            $flightQuery = "SELECT * FROM Flight WHERE Flight_number = $flightNumber";
            $flightResult = mysqli_query($conn, $flightQuery);
            $flight = mysqli_fetch_assoc($flightResult);

            // Display flight details in table rows
            echo "<tr>";
            echo "<td>" . $flight['Flight_number'] . "</td>";
            echo "<td>" . $flight['Flight_name'] . "</td>";
            echo "<td>" . $flight['Date'] . "</td>";
            echo "<td>" . $flight['Arrival_city'] . "</td>";
            echo "<td>" . $flight['departure_city'] . "</td>";
            echo "<td>" . $flight['Arrival_time'] . "</td>";
            echo "<td>" . $flight['Departure_time'] . "</td>";
            echo "</tr>";
        }
    }
}

```

**Contribution of ID : 20201032, Name : Sumaiya Hossain**

Did the backend for FAQ and for Cancel Flight.

For Cancel Flight: In order to connect to the database, I first created a connection using the code that has a `require\_once('db\_connect.php');` declaration.

```

<?php
require_once('db_connect.php');

```

I made sure that the script checks to see if the HTTP request type is POST, which indicates that the cancellation form has been submitted. The process of retrieving data involves obtaining the flight number ({ \$Flight\_number }) and ticket ID ({ \$ticket\_id }) that were entered through the form. Furthermore, the script verifies that the ticket ID and flight number are entered and are not blank.

```

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (isset($_POST['delete_flight'])) {
        $Flight_number = $_POST['Flight_number'];
        $ticket_id = $_POST['ticket_id'];

        // Check if both Flight_number and ticket_id are provided
        if (!empty($Flight_number) && !empty($ticket_id)) {
            // Check if the provided Flight_number and ticket_id match a booking
            $check_booking_query = "SELECT ticket_type FROM Booking WHERE username = '{$_SESSION['username']}'
                                   AND Flight_number = '$Flight_number' AND ticket_id = '$ticket_id'";
            $result = mysqli_query($conn, $check_booking_query);

```

Verified the booking by comparing it to the flight number and ticket ID that were provided and linked to the person who was logged in.

When a matched booking is discovered, the booking is also canceled and the seat availability is updated. The booking is then deleted from the database. If there are any problems during the cancellation procedure, the script gently resolves errors by displaying the relevant error messages.

```

// Delete the booking
$delete_booking_query = "DELETE FROM Booking WHERE username = '{$_SESSION['username']}'
                        AND Flight_number = '$Flight_number' AND ticket_id = '$ticket_id'";

if (mysqli_query($conn, $delete_booking_query)) {
    $success = "Booking Deleted Successfully.";

```

```

        // Update seat availability based on ticket type
        if ($ticket_type === 'economy') {
            mysqli_query($conn, "UPDATE Flight SET eco_seats = eco_seats + 1 WHERE Flight_number = '$Flight_number'");
        } elseif ($ticket_type === 'business') {
            mysqli_query($conn, "UPDATE Flight SET bus_seats = bus_seats + 1 WHERE Flight_number = '$Flight_number'");
        }
    } else {
        $error_message = "Error deleting booking: " . mysqli_error($conn);
    }
} else {
    $error_message = "No matching booking found for the provided flight number and ticket ID.";
}
} else {
    $error_message = "Please provide both Flight Number and Ticket ID for the delete operation.";
}

mysqli_close($conn);
}
}
}

```

For FAQ:



```
<?php
session_start();

// Check if the user is not logged in, redirect to login page
if (!isset($_SESSION['username']) || empty($_SESSION['username'])) {
    header("Location: login.php");
    exit;
}
?>
```

The session\_start() function initiates or resumes a session. If the user is not logged in (i.e., \$\_SESSION['username'] is empty), they're redirected to the login page (login.php) using header(), and the script stops executing with exit().

```
<?php
session_start();
if (isset($_SESSION['username']) && !empty($_SESSION['username'])) {
    echo "Welcome, " . $_SESSION['username'] . "!";
} else {
    echo "You are not logged in.";
}
?>
```

**Contribution of ID : 21201366, Name : Muhammad Tasib Ahasan**

I used HTML, PHP and Mysql query. In the Modify Flight Schedule, First I used the php query to fetch the flight schedule tables from the database and to show them on the web.

```
<?php

$mysqli = new mysqli("localhost", "root", "", "database");

if ($mysqli->connect_error) {
    die("connection failed: " . $mysqli->connect_error);
}

$sql = "SELECT * FROM flight";
$result = $mysqli->query($sql);

if ($result->num_rows > 0) {
    while ($row = $result->fetch_assoc()) {
        echo "<tr>";
        echo "<td>" . $row["Flight_number"] . "</td>";
        echo "<td>" . $row["Flight_name"] . "</td>";
        echo "<td>" . $row["Date"] . "</td>";
        echo "<td>" . $row["Arrival_city"] . "</td>";
        echo "<td>" . $row["departure_city"] . "</td>";
        echo "<td>" . $row["Arrival_time"] . "</td>";
        echo "<td>" . $row["Departure_time"] . "</td>";
        echo "<td>" . $row["eco_seats"] . "</td>";
        echo "<td>" . $row["eco_price"] . "</td>";
        echo "<td>" . $row["business_seats"] . "</td>";
        echo "<td>" . $row["business_price"] . "</td>";
        echo "<td><button class='edit-btn' data-id='" . $row['Flight_number'] . "'>Edit</button></td>";
        echo "</tr>";
    }
} else {
```

Added a button with every row to execute the edit operation.

```
echo "<td><button class='edit-btn' data-id='" . $row['Flight_number'] . "'>Edit</button></td>";
```

After getting the request, it takes all the updated parameters and uses sql query to update them in the database and show the updated message and updated table.

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST['flight_number'])) {

    $flight_number = $_POST['flight_number'];
    $flight_name = $_POST['flight_name'];
    $date = $_POST['Date'];
    $arrival_city = $_POST['arrival_city'];
    $departure_city = $_POST['departure_city'];
    $arrival_time = $_POST['arrival_time'];
    $departure_time = $_POST['departure_time'];
    $eco_seats = $_POST['eco_seats'];
    $eco_price = $_POST['eco_price'];
    $business_seats = $_POST['business_seats'];
    $business_price = $_POST['business_price'];

    $sql = "UPDATE flight SET Flight_name=?, Date=?, Arrival_city=?, departure_city=?, Arrival_time=?, Departure_time=?, eco_seats=?, eco_price=?, b

    $stmt = $mysqli->prepare($sql);
    $stmt->bind_param("sssssiidii", $flight_name, $date, $arrival_city, $departure_city, $arrival_time, $departure_time, $eco_seats, $eco_price, $b

    if ($stmt->execute()) {
        echo "Flight schedule updated successfully.";
    } else {
        echo "Error updating flight schedule: " . $stmt->error;
    }

    $stmt->close();
}
$mysqli->close();
?>
```

In the add flight schedule after it takes all the data it uses sql query to check if the flight number already exists . If it doesn't exist then another query inserts the data in the table.

```
<?php
if (isset($_POST['Flight_number']) && isset($_POST['Flight_name']) && isset($_POST['Arrival_city']) && isset($_POST['Arrival_time']) && isset($_POST['Departure_city']) && isset($_POST['Departure_time']) && isset($_POST['eco_seats']) && isset($_POST['eco_price']) && isset($_POST['business_seats']) && isset($_POST['business_price'])) {

    $Flight_number = $_POST['Flight_number'];
    $check_query = "SELECT Flight_number FROM flight WHERE Flight_number = $Flight_number";
    $check_result = mysqli_query($conn, $check_query);

    if (mysqli_num_rows($check_result) > 0) {
        echo "<br><br><b style='color:red'>Flight Number already exists in the database.</b>";
    } else {

        $Flight_name = $_POST['Flight_name'];
        $Date = $_POST['Date'];
        $Arrival_city = $_POST['Arrival_city'];
        $Arrival_time = $_POST['Arrival_time'];
        $Departure_city = $_POST['Departure_city'];
        $Departure_time = $_POST['Departure_time'];
        $eco_seats = $_POST['eco_seats'];
        $eco_price = $_POST['eco_price'];
        $business_seats = $_POST['business_seats'];
        $business_price = $_POST['business_price'];
        $sql = "INSERT INTO flight (Flight_number, Flight_name, Date ,Arrival_city, Arrival_time, Departure_city, Departure_time, eco_seats, eco_price, business_seats, business_price) VALUES ($Flight_number, '$Flight_name', '$Date', '$Arrival_city', '$Arrival_time', '$Departure_city', '$Departure_time', '$eco_seats', '$eco_price', '$business_seats', '$business_price')";

        if (mysqli_query($conn, $sql)) {
            echo "<br><br><b style='color:black'>Flight Added Successfully.</b>";
        } else {
            echo "Error: " . $sql . "<br>" . mysqli_error($conn);
        }
    }

    mysqli_close($conn);
}
?>
```



### **Source Code Repository**

<https://github.com/RashedFahim/Online-Flight-Reservation>

## **Conclusion**

To sum up, the goal of our project is to completely transform the travel booking process by launching a state-of-the-art online platform that provides customers with a quick and easy way to book flights. Our team has put a lot of effort into integrating cutting-edge technology and industry-standard practices throughout the development process to guarantee a stable and secure platform for our clients.

A unique homepage for administrators and users, the capacity for administrators to add, edit, and remove flight schedules, user registration and login features, flight schedules presented in a 24-hour format, and uniform payment methods for all clients are just a few of the noteworthy features of our project.

Our team concentrated on developing aesthetically pleasing layouts with CSS styling, incorporating forms for user interaction, and establishing navigation features to improve the user experience in general during the frontend development stage. This part of the project required a lot of teamwork, and everyone delivered by making sure our frontend is both aesthetically beautiful and easy to use.

Our team used PHP and SQL on the backend to create database connections, get flight booking data, and create HTML markup dynamically for the flight details display. The backend development team put in a lot of effort to make sure the application integrated with the frontend and ran well.

All things considered, our project is the result of teamwork to provide a cutting-edge travel booking platform that satisfies the demands of contemporary customers.

## References

<https://youtu.be/1zXqo2WcOew?si=hUwriwvggm-KTx5q>

<https://learn.shayhowe.com/html-css/setting-backgrounds-and-gradients/#:~:text=Linear%20gradients%20are%20identified%20by,be%20the%20ending%20color%20value.>

<https://www.youtube.com/watch?v=jLdG1xLdhpw>

<https://www.youtube.com/watch?v=awKaV9jQPXs>

[https://www.youtube.com/watch?v=jX\\_Q1qTYXy0](https://www.youtube.com/watch?v=jX_Q1qTYXy0)

<https://www.youtube.com/watch?v=zZ6vybT1HQs&t=12778s>

[https://www.youtube.com/watch?v=\\_TST9dVptls&t=241s](https://www.youtube.com/watch?v=_TST9dVptls&t=241s)