



# American International University- Bangladesh

## CSC 3215: Web Technologies

### CO2 and CO4 Evaluation Finished Project Report Spring/Summer/Fall 2020-2021

**Project Title:** Airline Ticket Reservation System  
**Section:** H

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# Airline Ticket Reservation System

## Project Description:

Airline Ticket Reservation System or flight reservation system is online web-based application designed to make flight ticket booking easier. A system which contains all the possible flights and route for a particular departure to destination location. User gets to choose from a variety of flights from multiple airlines if available for given route. The system enables the customer to do the things such as search for airline flights for two travel cities on a specified date, choose a flight based on the details, reservation of flight and cancellation of reservation. The system allows the airline passenger to search for flights that are available between the two travel cities, namely the “Departure city” and “Arrival city” for a particular departure and arrival dates. The system displays all the flight’s details such as flight no, name, price and duration of journey etc.

After search the system display list of available flights and allows customer to choose a particular flight. Then the system checks for the availability of seats on the flight. If the seats are available then the system allows the passenger to book a seat. Otherwise it asks the user to choose another flight. To book a flight the system asks the customer to enter his details such as name, address, city, state, credit card number and contact number. Then it checks the validity of card and book the flight and update the airline database and user database.

## Project Folder Structure:

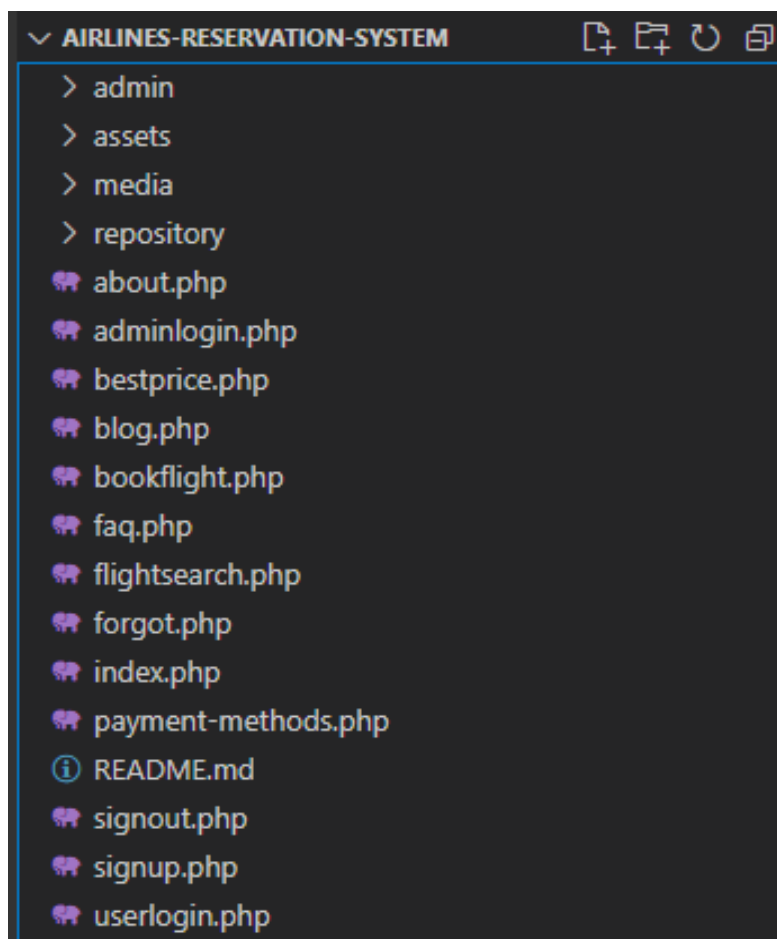


Fig 01: Main folder structure



# Airline Ticket Reservation System

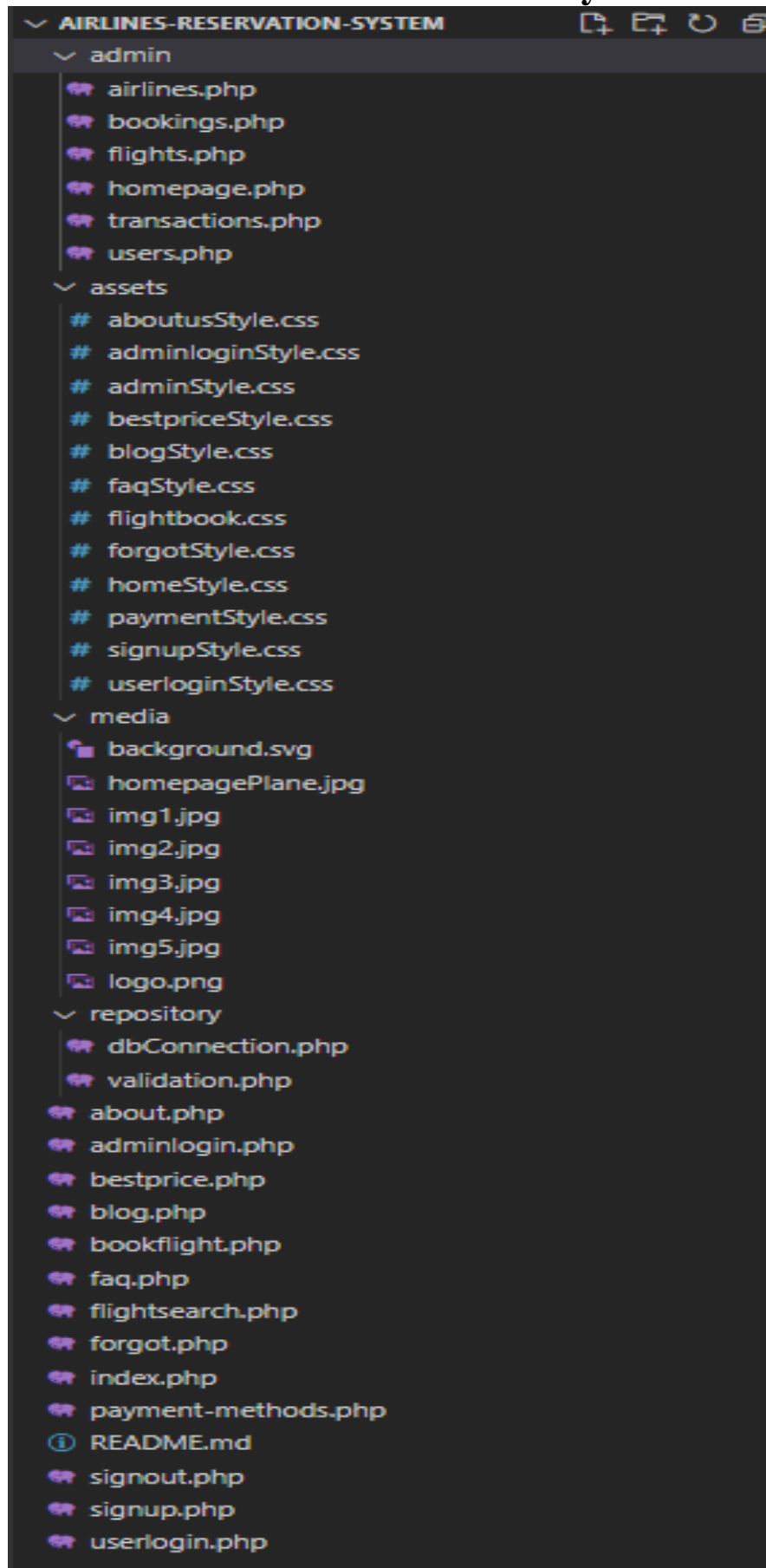


Fig 01: Detailed folder structure



# Airline Ticket Reservation System

## Core Modules of the Project:

Here, add *THREE* of your *CORE* modules' source code with appropriate filename as heading. (Use either consolas or courier new font for source code)

For example:

### index.php

```
<form action="#" method="POST" >
  <div class="box">
    <i class="fa fa-map-marker" aria-hidden="true"> Departure</i><br>
    <input type="text" list="airports" name="departure" id="departure" placeholder="enter departure airport here...">
    <datalist id="airports">
  </div>
  <?php
    include "repository/dbConnection.php";
    $query="SELECT * FROM airports";
    $conn=dbConnection();
    $result=mysqli_query($conn,$query);
    if (mysqli_num_rows($result) > 0) {
      while($row = mysqli_fetch_assoc($result)) {
        echo "<option >".$row['airport_name']. "</option>";
      }
    }
  >
  </datalist>
  </div>
  <div class="box">
    <i class="fa fa-map-marker" aria-hidden="true"> Destination</i><br><input list="airports" type="text" name="destination" id="destination" placeholder="enter destination airport here..." >
  </div>
  <div class="box">
    <label for="dDate" style="font-weight:bolder">Departure Date</label><br><input type="date" name="dDate" id="dDate">
  </div>
  <div class="box">
    <br><input type="button" id="searchflights" value="Search" onclick="flightSearch()">
  </div>
</form>
```

Figure 01: Live search of airports



# Airline Ticket Reservation System

## flightsearch.php

```
<?php
include "repository/dbConnection.php";
$conn=dbConnection();

$departure=$_REQUEST["departure"];
$destination=$_REQUEST["destination"];
$d_airport="";
$a_airport="";
$sql="SELECT iata FROM airports where airport_name='$departure'"; // get departure airport iata
$result=mysqli_query($conn,$sql);
if (mysqli_num_rows($result) > 0) {
    $row = mysqli_fetch_assoc($result); {
        $d_airport=$row['iata'];
    }}
$sql="SELECT iata FROM airports where airport_name='$destination'"; // get destination airport iata
$result=mysqli_query($conn,$sql);
if (mysqli_num_rows($result) > 0) {
    $row = mysqli_fetch_assoc($result); {
        $a_airport=$row['iata'];
    }}
// get all available flights
echo "
<table>
    <tr>
    <th>Flight ID</th>
    <th>Departure </th>
    <th>Arrival</th>
    <th>Departure Time</th>
    <th>Arrival Time</th>
    <th>Econ Price</th>
    <th>Buss Price</th>
    <th>Available Seats</th>
    <th>Book</th>
    </tr>";
$query="SELECT flight_id,departure,arrival,dtime,atime,eprice,bprice,available_capacity FROM flights where departure='$d_airport' and arrival='$a_airport'";
$result=mysqli_query($conn,$query);
if (mysqli_num_rows($result) > 0) {
    // output data of each row
    while($row = mysqli_fetch_assoc($result)) {
        echo "
        <tr>
        <td>".$row['flight_id']. "</td>
        <td> ".$row['departure']. "</td>
        <td>".$row['arrival']. "</td>
        <td>".$row['dtime']. "</td>
        <td>".$row['atime']. "</td>
        <td>".$row['eprice']. "</td>
        <td>".$row['bprice']. "</td>
        <td>".$row['available_capacity']. "</td>
        <td align='center'><button class='button'><a style='text-decoration:none' href='bookflight.php?fid=".$row['flight_id']."'&dep=".$row['departure'].
        </td>
        </tr>";
    }
}
echo "</form></table>";
?>
```

Figure 01: search of flights



# Airline Ticket Reservation System

## bookings.php

```
if(isset($_POST['addnewbooking']))
{
    if( isset($_POST['passenger_id']) & isset($_POST['flight_id']) & isset($_POST['airline_id']) & isset($_POST['ticket_type']) & isset($_POST['booking_date']) & isset($_POST['price']) ) {

        $passenger_id=$_POST['passenger_id'];
        $flight_id=$_POST['flight_id'];
        $airline_id=$_POST['airline_id'];
        $ticket_type=$_POST['ticket_type'];
        $booking_date=$_POST['booking_date'];
        $price=$_POST['price'];
        if($conn){
            $sql="SELECT *FROM bookings where booking_id='$booking_id'";
            $result=mysqli_query($conn,$sql);

            $sql="SELECT *FROM flights WHERE flight_id='$flight_id' and airline_id='$airline_id'"; //check if seat is available
            $get_available_seats=mysqli_query($conn,$sql);
            if($get_available_seats){
                $row = mysqli_fetch_assoc($get_available_seats);
                $available_seat=$row['available_capacity'];

            }
            if($available_seat>1){
                if(mysqli_num_rows($result)>=1) {
                    $query="UPDATE bookings SET passenger_id='$passenger_id',flight_id='$flight_id',airline_id='$airline_id',ticket_type='$ticket_type',booking_date='$booking_date',price='$price' where booking_id='$booking_id'";
                    $update=mysqli_query($conn,$query);
                    if($update){
                        header("refresh:1;");
                    }
                    else{
                        echo "<script> alert('error'); </script>";
                    }
                }
                else{
                    $query="INSERT INTO bookings (passenger_id,flight_id,airline_id,ticket_type,booking_date,price) VALUES ('$passenger_id','$flight_id','$airline_id','$ticket_type','$booking_date','$price')";
                    $update=mysqli_query($conn,$query);
                    if($update){
                        $updateAvailableSeat="UPDATE flights SET available_capacity=available_capacity-1 WHERE flight_id='$flight_id'"; // update available seats
                        $transaction_query="INSERT INTO transactions(flight_id,passenger_id,amount)VALUES('$flight_id','$passenger_id','$price')"; //update transaction
                        $check_transaction=mysqli_query($conn,$transaction_query);
                        $check=mysqli_query($conn,$updateAvailableSeat);
                        if($check & $check_transaction){
                            header("refresh:1;");
                        }
                    }
                    else{
                        echo "<script> alert('error'); </script>";
                    }
                }
            }
        }
    }
}
```

Figure 03: book new flight

