



# **Savitribai Phule Pune University**

**A**

**Project Report**

**On**

**“Online Bus Ticket Reservation System”**

**Submitted by**

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**UNDER THE GUIDANCE OF**

**Prof. Pachhade R.C.**



**DEPARTMENT OF COMPUTER ENGINEERING  
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SAROLA BADDI AHMEDNAGAR 414201  
ACADEMIC YEAR 2023-24**



**DEPARTMENT OF COMPUTER ENGINEERING**  
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**SAROLA BADDI, AHMEDNAGAR**

## **CERTIFICATE**

This is to certify that 1.Momin Mohammad Saud Mohammad Ziya 2. Shaikh Adnan Afzal Patel 3. Shaikh Aaqib Sadik has successfully completed his Mini-Project Report on “**Online Bus Ticket Reservation System**” at Vishwabharati Academy's College of Engineering, Ahmednagar in the partial fulfillment of the Graduate Degree course in **TE Computer** at the Department of Computer Engineering, in the academic Year 2023-2024. as prescribed by the Savitribai Phule Pune University.

Prof. Pachhade R.C.

**Project Guide**

Prof. Joshi S.G.

**Head**

Date:

Place: Ahmednagar

# Acknowledgement

A successful work of Project is the result of inspiration, support, guidance, motivation and cooperation of facilities during study. It gives me great pleasure to acknowledge my deep sense of gratitude to present my mini project titled: “**Online Bus Ticket Reservation System**”. I would like to give sincere thanks to my respected guide **Prof. Pachhade R . C .** and Head of Department Prof. Joshi S. G. for her whole - hearted support and affectionate encouragement without which my successful mini project would not have been possible. Last but not least I have to express my gratitude towards all staff members of Vishwabharati Academy’s College of Engineering and special thanks to my friends for their moral support and help.

Momin Mohammad Saud Mohammad Ziya  
Shaikh Adnan Afzal Patel  
Shaikh Aaqib Sadik

# Table of Contents

<b>1. Abstract.....</b>	
<b>2. Introduction.....</b>	
<b>3. Functions to be used .....</b>	
<b>4. Software Requirement Specification.....</b>	
<b>5. Application.....</b>	
<b>6. Advantages &amp; Disadvantages .....</b>	
<b>7. Source Code.....</b>	
<b>8. Output.....</b>	
<b>9. Conclusion.....</b>	
<b>10. Reference.....</b>	

# **Abstract**

Online Bus Ticket Reservation System is a web-based application that works within a file one network. This project introduces an update to the software program “Online Bus Ticket Reservation System” as it should be used in the bus system, the area used reserved seats, booking cancellations and various types of route inquiries used for security quick booking. OBTRS is designed to manage and compile a traditional database, ticket booking and bus tracking and departure made.

Maintains all customer details, bus details, booking details. In order to achieve the design, Imo Transport Company (ITC) was selected as case study because of its importance in Imo State strategies. Systematic Analysis once Design Methodology (SSADM) was approved. In addition, PHP PHP Hypertext Preprocessor (PHP) language was used for software terminals while the back end was designed for use MySQL

# Introduction

The online bus ticket system brings unparalleled convenience to travelers, allowing them to browse through a comprehensive array of bus routes, schedules, and seat options with just a few clicks. Whether from the comfort of their homes, workplaces, or on the go, passengers can access a user-friendly platform to plan their journeys, significantly reducing the time and effort traditionally associated with ticket purchasing.

In this project we use PHP and MySQL database and it has one module i.e. Admin

The Online Bus Ticket Reservation System is a web-based application that allows visitors check bus Ticket availability, buy bus ticket and pay the bus ticket online. This system is established for all the home/office users after gaining access from the administrator.

Online Bus Reservation System provides bus transportation system, a facility to reserved seats, of seats and different types of enquiry which need an instant and quick reservation. This system can be used by the users in performing online reservation via internet for their all business purposes. Users can use this program directly on their websites and no need to install it.

# **Software Requirement Specification**

## **Introduction**

The Software Requirement Specification (SRS) document provides a complete description of all requirements, design issues and required specifications against challenges for “Online Bus Ticket Reservation System”.

## **Project Scope**

This project is that part of the online bus reservation system , which allows passengers to update information, while the online bus reservation system receives information and manipulates reports from given informations, and makes them a user friendly system. our UI design is accompanied by a set of .aspx file and a database for the system .

All possible features such as verification, validation, security, user friendliness etc have been.

## **Operating Environment**

- Processor - – AMD Ryzen 5 and above
- RAM –512 GB and above
- Hard Disk -40 GB and above

## **Technical Specification**

- Operating System – Windows
- Database – MySQL
- Technology : PHP
- Front End –: HTML
- Scripting Language : : JavaScript

# Applications

- User Authentication - allow user to create accounts and log in securely.
- search and booking - Display a list of available buses with details such as departure and arrival times, duration, and ticket prices.
- seat selection - Implement a seat map for each bus, allowing users to select their preferred seats.
- user profile - Allow users to manage their profiles, including personal information, booking history, and preferences.
- payment integrations - Support various payment methods such as credit cards, debit cards, and digital wallets.
- confirm and e-ticket- Send confirmation emails or SMS messages to users after successful booking.
- cancellation and refund - Implement a cancellation system that allows users to cancel their bookings.
- admin panel - Create an admin panel for managing buses, routes, schedules, and user data.
- bus management - Enable administrators to add, edit, or remove buses.
- reporting and analytics- reports on booking trends, revenue, and other relevant metrics.
- feedback and reviews - Allow users to provide feedback and reviews on their travel experience.
- customer support - Provide customer support through various channels, including chat, email, or phone.



# **Advantages & Disadvantages**

## **Advantages:**

- Convenience Users can book bus tickets from the comfort of their homes or on the go.
- 24/7 Accessibility Online reservation systems are available 24/7
- Real-time Information seat availability, and fares, enabling them to make informed decisions.
- Automated Confirmation: Users receive immediate confirmation of their bookings
- Promotions and Discounts: Online platforms often offer promotions, discounts.
- Multiple Payment Options: Users can choose from various payment options, including credit/debit cards, net banking , making the payment process convenient.
- Paperless Transactions: Online reservations contribute to environmental sustainability by reducing the need for paper tickets.

## **Disadvantages:**

- Technical Issues: Users may face technical glitches, server downtimes, or connectivity issues that can disrupt the booking process.
- Dependency on Technology: Users who are not comfortable with technology or lack internet access may find it challenging to use online reservation systems.

# Source Code

```
-- phpMyAdmin SQL Dump
-- version 5.1.1
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Generation Time: May 25, 2022 at 08:03 PM
-- Server version: 10.4.22-MariaDB
-- PHP Version: 7.4.27
```

## Booking php :-

```
<!-- Show these admin pages only when the admin is logged in -->
<?php require '../assets/partials/_admin-check.php'; ?>

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Bookings</title>
<!-- google fonts -->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@100;200;300;400;500&display=
swap" rel="stylesheet">
<!-- Font Awesome -->
<script src="https://kit.fontawesome.com/d8cfbe84b9.js" crossorigin="anonymous"></script>
<!-- Bootstrap CSS -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstrap.min.
css" rel="stylesheet" integrity="
sha384-+0n0xVW2eSR5OomGNYDnhzAbDsOXxcvSN1TPPrVMTNDbiYZCxYbOO17+AMvyTG2x"
crossorigin="anonymous">
<!-- External CSS -->
<?php
require '../assets/styles/admin.php';
require '../assets/styles/admin-options.php';
$page="booking";
?>
</head>
<body>
<!-- Requiring the admin header files -->
<?php require '../assets/partials/_admin-header.php';?>
<!-- Add, Edit and Delete Bookings -->
<?php
/*
```

```

1. Check if an admin is logged in
2. Check if the request method is POST
*/
if($loggedIn && $_SERVER["REQUEST_METHOD"] == "POST")
{
    if(isset($_POST["submit"]))
    {
        /*
        ADDING Bookings
        Check if the $_POST key 'submit' exists
        */
        // Should be validated client-side
        // echo "<pre>";
        // var_export($_POST);
        // echo "</pre>";
        // die;
        $customer_id = $_POST["cid"];
        $customer_name = $_POST["cname"];
        $customer_phone = $_POST["cphone"];
        $route_id = $_POST["route_id"];
        $route_source = $_POST["sourceSearch"];
        $route_destination = $_POST["destinationSearch"];
        $route = $route_source . " &rarr; " . $route_destination;
        $booked_seat = $_POST["seatInput"];
        $amount = $_POST["bookAmount"];
        // $dep_timing = $_POST["dep_timing"];

        $booking_exists = exist_booking($conn,$customer_id,$route_id);
        $booking_added = false;

        if(!$booking_exists)
        {
            // Route is unique, proceed
            $sql = "INSERT INTO `bookings` (`customer_id`, `route_id`, `customer_route`,
            `booked_amount`, `booked_seat`, `booking_created`) VALUES
            ('$customer_id', '$route_id', '$route', '$amount', '$booked_seat', current_timestamp());";
            $result = mysqli_query($conn, $sql);
            // Gives back the Auto Increment id
            $autoInc_id = mysqli_insert_id($conn);
            // If the id exists then,
            if($autoInc_id)
            {
                $key = "1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZ";
                $code = "";
                for($i = 0; $i < 5; ++$i)
                $code .= $key[rand(0,strlen($key) - 1)];

                // Generates the unique bookingid
                $booking_id = $code.$autoInc_id;

                $query = "UPDATE `bookings` SET `booking_id` = '$booking_id' WHERE `bookings`.`id`
                = $autoInc_id;";
            }
        }
    }
}

```

```

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

if(!$queryResult)
echo "Not Working";
}

if($result)
$booking_added = true;
}

if($booking_added)
{
// Show success alert
echo '<div class="my-0 alert alert-success alert-dismissible fade show" role="alert">
<strong>Successful!</strong> Booking Added
<button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
</div>';

// Update the Seats table
$bus_no = get_from_table($conn, "routes", "route_id", $route_id, "bus_no");
$seats = get_from_table($conn, "seats", "bus_no", $bus_no, "seat_booked");
if($seats)
{
$seats .= "," . $booked_seat;
}
else
$seats = $booked_seat;

$updateSeatSql = "UPDATE `seats` SET `seat_booked` = '$seats' WHERE `seats`.`bus_no`
= '$bus_no'";
mysqli_query($conn, $updateSeatSql);
}
else{
// Show error alert
echo '<div class="my-0 alert alert-danger alert-dismissible fade show" role="alert">
<strong>Error!</strong> Booking already exists
<button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
</div>';
}
}
if(isset($_POST["edit"]))
{
// EDIT BOOKING
// echo "<pre>";
// var_export($_POST);
// echo "</pre>";die;
$cname = $_POST["cname"];
$cphone = $_POST["cphone"];
$id = $_POST["id"];
$customer_id = $_POST["customer_id"];
$id_if_customer_exists = exist_customers($conn,$cname,$cphone);

```

```

if(!$id_if_customer_exists || $customer_id == $id_if_customer_exists)
{
$updateSql = "UPDATE `customers` SET
`customer_name` = '$cname',
`customer_phone` = '$cphone' WHERE `customers`.`customer_id` = '$customer_id'";

$updateResult = mysqli_query($conn, $updateSql);
$rowsAffected = mysqli_affected_rows($conn);

$messageStatus = "danger";
$messageInfo = "";
$messageHeading = "Error!";

if(!$rowsAffected)
{
$messageInfo = "No Edits Administered!";
}

elseif($updateResult)
{
// Show success alert
$messageStatus = "success";
$messageHeading = "Successfull!";
$messageInfo = "Customer details Edited";
}
else{
// Show error alert
$messageInfo = "Your request could not be processed due to technical Issues from our part.
We regret the inconvenience caused";
}

// MESSAGE
echo '<div class="my-0 alert alert-'. $messageStatus. ' alert-dismissible fade
show" role="alert">
<strong>'. $messageHeading. '</strong> '. $messageInfo. '
<button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
</div>';
}
else{
// If customer details already exists
echo '<div class="my-0 alert alert-danger alert-dismissible fade show" role="alert">
<strong>Error!</strong> Customer already exists
<button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
</div>';
}
}
if(isset($_POST["delete"]))
{
// DELETE BOOKING
$id = $_POST["id"];
$route_id = $_POST["route_id"];

```

```

// Delete the booking with id => id
$deleteSql = "DELETE FROM `bookings` WHERE `bookings`.`id` = $id";

$deleteResult = mysqli_query($conn, $deleteSql);
$rowsAffected = mysqli_affected_rows($conn);
$messageStatus = "danger";
$messageInfo = "";
$messageHeading = "Error!";

if(!$rowsAffected)
{
$messageInfo = "Record Doesn't Exist";
}

elseif($deleteResult)
{
$messageStatus = "success";
$messageInfo = "Booking Details deleted";
$messageHeading = "Successfull!";

// Update the Seats table
$bus_no = get_from_table($conn, "routes", "route_id", $route_id, "bus_no");
$seats = get_from_table($conn, "seats", "bus_no", $bus_no, "seat_booked");

// Extract the seat no. that needs to be deleted
$booked_seat = $_POST["booked_seat"];

$seats = explode(",", $seats);
$idx = array_search($booked_seat, $seats);
array_splice($seats,$idx,1);
$seats = implode(",", $seats);

$updateSeatSql = "UPDATE `seats` SET `seat_booked` = '$seats' WHERE `seats`.`bus_no`
= '$bus_no'";
mysqli_query($conn, $updateSeatSql);
}
else{

$messageInfo = "Your request could not be processed due to technical Issues from our part.
We regret the inconvenience caused";
}

// Message
echo '<div class="my-0 alert alert-'. $messageStatus. ' alert-dismissible fade
show" role="alert">
<strong>'. $messageHeading. '</strong> '. $messageInfo. '
<button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
</div>';
}
}
?>
<?php

```

```

$resultSql = "SELECT * FROM `bookings` ORDER BY booking_created DESC";

$resultSqlResult = mysqli_query($conn, $resultSql);

if(!mysqli_num_rows($resultSqlResult)){ ?>
<!-- Bookings are not present -->
<div class="container mt-4">
<div id="noCustomers" class="alert alert-dark " role="alert">
<h1 class="alert-heading">No Bookings Found!!</h1>
<p class="fw-light">Be the first person to add one!</p>
<hr>
<div id="addCustomerAlert" class="alert alert-success" role="alert">
Click on <button id="add-button" class="button btn-sm"type="button"data-bs-toggle=
"modal" data-bs-target="#addModal">ADD <i class="fas fa-plus"></i></button> to add a booking!
</div>
</div>
</div>
<?php }
else { ?>
<section id="booking">
<div id="head">
<h4>Booking Status</h4>
</div>
<div id="booking-results">
<div>
<button id="add-button" class="button btn-sm"type="button"data-bs-toggle="modal"
data-bs-target="#addModal">Add Bookings<i class="fas fa-plus"></i></button>
</div>
<table class="table table-hover table-bordered">
<thead>
<th>PNR</th>
<th>Name</th>
<th>Contact</th>
<th>Bus</th>
<th>Route</th>
<th>Seat</th>
<th>Amount</th>
<th>Departure</th>
<th>Booked</th>
<th>Actions</th>
</thead>
<?php
while($row = mysqli_fetch_assoc($resultSqlResult))
{
// echo "<pre>";
// var_export($row);
// echo "</pre>";
$id = $row["id"];
$customer_id = $row["customer_id"];
$route_id = $row["route_id"];

$pnr = $row["booking_id"];

```

```
$customer_name = get_from_table($conn, "customers", "customer_id",
$customer_id, "customer_name");

$customer_phone = get_from_table($conn, "customers", "customer_id",
$customer_id, "customer_phone");

$bus_no = get_from_table($conn, "routes", "route_id", $route_id, "bus_no");

$route = $row["customer_route"];

$booked_seat = $row["booked_seat"];

$booked_amount = $row["booked_amount"];

$dep_date = get_from_table($conn, "routes", "route_id", $route_id, "route_dep_date");

$dep_time = get_from_table($conn, "routes", "route_id", $route_id, "route_dep_time");

$booked_timing = $row["booking_created"];
?>
<tr>
<td>
<?php
echo $pnr;
?>
</td>
<td>
<?php
echo $customer_name;
?>
</td>
<td>
<?php
echo $customer_phone;
?>
</td>
<td>
<?php
echo $bus_no;
?>
</td>
<td>
<?php
echo $route;
?>
</td>
<td>
<?php
echo $booked_seat;
?>
</td>
```



```

<td>
<?php
echo '$'.$booked_amount;
?>
</td>
<td>
<?php
echo $dep_date . " , ". $dep_time;
?>
</td>
<td>
<?php
echo $booked_timing;
?>
</td>
<td>
<button class="button btn-sm edit-button" data-link="<?php echo $_SERVER['REQUEST_URI'];
?>" data-customerid="<?php
echo $customer_id;?>" data-id="<?php
echo $id;?>" data-name="<?php
echo $customer_name;?>" data-phone="<?php
echo $customer_phone;?>" >Edit</button>
<button class="button delete-button btn-sm" data-bs-toggle="modal"
data-bs-target="#deleteModal"
data-id="<?php
echo $id;?>" data-bookedseat="<?php
echo $booked_seat;
?>" data-routeid="<?php
echo $route_id;
?>"> Delete</button>
</td>
</tr>
<?php
}
?>
</table>
</div>
</section>
<?php } ?>
</div>
</main>
<!-- Requiring _getJSON.php-->
<!-- Will have access to variables
1. routeJson
2. customerJson
3. seatJson
4. busJson
5. adminJson
6. bookingJSON
-->
<?php require '../assets/partials/_getJSON.php';?>

```

```

<!-- All Modals Here -->
<!-- Add Booking Modal -->
<div class="modal fade" id="addModal" tabindex="-1" aria-labelledby="exampleModalLabel"
  aria-hidden="true">
<div class="modal-dialog modal-lg modal-dialog-scrollable">
<div class="modal-content">
<div class="modal-header">
<h5 class="modal-title" id="exampleModalLabel">Make Bookings</h5>
<button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
</div>
<div class="modal-body">
<form id="addBookingForm" action="<?php echo $_SERVER['REQUEST_URI']; ?>" method="POST">
<!-- Passing Route JSON -->
<input type="hidden" id="routeJson" name="routeJson" value='<?php echo $routeJson; ?>'>
<!-- Passing Customer JSON -->
<input type="hidden" id="customerJson" name="customerJson" value='<?php echo
$customerJson; ?>'>
<!-- Passing Seat JSON -->
<input type="hidden" id="seatJson" name="seatJson" value='<?php echo $seatJson; ?>'>

<div class="mb-3">
<label for="cid" class="form-label">Customer ID</label>
<!-- Search Functionality -->
<div class="searchQuery">
<input type="text" class="form-control searchInput" id="cid" name="cid">
<div class="sugg">

</div>
</div>
</div>
<div class="mb-3">
<label for="cname" class="form-label">Customer Name</label>
<input type="text" class="form-control" id="cname" name="cname" readonly>
</div>
<div class="mb-3">
<label for="cphone" class="form-label">Contact Number</label>
<input type="tel" class="form-control" id="cphone" name="cphone" readonly>
</div>
<div class="mb-3">
<label for="routeSearch" class="form-label">Route</label>
<!-- Search Functionality -->
<div class="searchQuery">
<input type="text" class="form-control searchInput" id="routeSearch" name="routeSearch">
<div class="sugg">
</div>
</div>
</div>
<!-- Send the route_id -->
<input type="hidden" name="route_id" id="route_id">
<!-- Send the departure timing too -->
<input type="hidden" name="dep_timing" id="dep_timing">

```

```

<div class="mb-3">
<label for="sourceSearch" class="form-label">Source</label>
<!-- Search Functionality -->
<div class="searchQuery">
<input type="text" class="form-control searchInput" id="sourceSearch" name="sourceSearch">
<div class="sugg">
</div>
</div>
</div>
</div>
<div class="mb-3">
<label for="destinationSearch" class="form-label">Destination</label>
<!-- Search Functionality -->
<div class="searchQuery">
<input type="text" class="form-control searchInput"
id="destinationSearch" name="destinationSearch">
<div class="sugg">
</div>
</div>
</div>
</div>
<!-- Seats Diagram -->
<div class="mb-3">
<table id="seatsDiagram">
<tr>
<td id="seat-1" data-name="1">1</td>
<td id="seat-2" data-name="2">2</td>
<td id="seat-3" data-name="3">3</td>
<td id="seat-4" data-name="4">4</td>
<td id="seat-5" data-name="5">5</td>
<td id="seat-6" data-name="6">6</td>
<td id="seat-7" data-name="7">7</td>
<td id="seat-8" data-name="8">8</td>
<td id="seat-9" data-name="9">9</td>
<td id="seat-10" data-name="10">10</td>
</tr>
<tr>
<td id="seat-11" data-name="11">11</td>
<td id="seat-12" data-name="12">12</td>
<td id="seat-13" data-name="13">13</td>
<td id="seat-14" data-name="14">14</td>
<td id="seat-15" data-name="15">15</td>
<td id="seat-16" data-name="16">16</td>
<td id="seat-17" data-name="17">17</td>
<td id="seat-18" data-name="18">18</td>
<td id="seat-19" data-name="19">19</td>
<td id="seat-20" data-name="20">20</td>
</tr>
<tr>
<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>

```

```

<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>
</tr>
<tr>
<td id="seat-21" data-name="21">21</td>
<td id="seat-22" data-name="22">22</td>
<td id="seat-23" data-name="23">23</td>
<td id="seat-24" data-name="24">24</td>
<td id="seat-25" data-name="25">25</td>
<td id="seat-26" data-name="26">26</td>
<td id="seat-27" data-name="27">27</td>
<td class="space">&nbsp;</td>
<td id="seat-28" data-name="28">28</td>
<td id="seat-29" data-name="29">29</td>
</tr>
<tr>
<td id="seat-30" data-name="30">30</td>
<td id="seat-31" data-name="31">31</td>
<td id="seat-32" data-name="32">32</td>
<td id="seat-33" data-name="33">33</td>
<td id="seat-34" data-name="34">34</td>
<td id="seat-35" data-name="35">35</td>
<td id="seat-36" data-name="36">36</td>
<td class="space">&nbsp;</td>
<td id="seat-37" data-name="37">37</td>
<td id="seat-38" data-name="38">38</td>
</tr>
</table>
</div>
<div class="row g-3 align-items-center mb-3">
<div class="col-auto">
<label for="seatInput" class="col-form-label">Seat Number</label>
</div>
<div class="col-auto">
<input type="text" id="seatInput" class="form-control" name="seatInput" readonly>
</div>
<div class="col-auto">
<span id="seatInfo" class="form-text">
Select from the above figure, Maximum 1 seat.
</span>
</div>
</div>
<div class="mb-3">
<label for="bookAmount" class="form-label">Total Amount</label>
<input type="text" class="form-control" id="bookAmount" name="bookAmount" readonly>
</div>
<button type="submit" class="btn btn-success" name="submit">Submit</button>
</form>
</div>

```

```

<div class="modal-footer">
<!-- Add Anything -->
</div>
</div>
</div>
</div>
<!-- Delete Modal -->
<div class="modal fade" id="deleteModal" tabindex="-1" aria-labelledby=
"exampleModalLabel" aria-hidden="true">
<div class="modal-dialog modal-dialog-centered">
<div class="modal-content">
<div class="modal-header">
<h5 class="modal-title" id="exampleModalLabel"><i class="fas fa-exclamation-circle"></i></h5>
<button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
</div>
<div class="modal-body">
<h2 class="text-center pb-4">
Are you sure?
</h2>
<p>
Do you really want to delete this booking? <strong>This process cannot be undone.</strong>
</p>
<!-- Needed to pass id -->
<form action="<?php echo $_SERVER['REQUEST_URI']; ?>" id="delete-form" method="POST">
<input id="delete-id" type="hidden" name="id">
<input id="delete-booked-seat" type="hidden" name="booked_seat">
<input id="delete-route-id" type="hidden" name="route_id">
</form>
</div>
<div class="modal-footer d-flex justify-content-center">
<button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Cancel</button>
<button type="submit" form="delete-form" name="delete" class="btn btn-danger">Delete</button>
</div>
</div>
</div>
</div>
<script src="../assets/scripts/admin_booking.js"></script>
<!-- Option 1: Bootstrap Bundle with Popper -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.bundle.
min.js" integrity="sha384-gtEjrD/SeCtmISkJKNUaakMoLD0//ElJ19smozuHV6z3Iehds+3U1b9Bn9Plx0x4
" crossorigin="anonymous"></script>
</body>
</html>

```

#### ADMIN HEADER& SEAT:-

```

<!-- Show these admin pages only when the admin is logged in -->
<?php require '../assets/partials/_admin-check.php'; ?>

```

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Seats</title>
<!-- google fonts -->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@100;200;300;400;500&display=
swap" rel="stylesheet">
<!-- Bootstrap CSS -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstrap.min.
css" rel="stylesheet" integrity=
"sha384-+0n0xVW2eSR50omGNYDnhzAbDsOXxcvSN1TPprVMTNDbiYZCxYbOO17+AMvyTG2x"
crossorigin="anonymous">
<!-- Font Awesome -->
<script src="https://kit.fontawesome.com/d8cfbe84b9.js" crossorigin="anonymous"></script>
<!-- External CSS -->
<?php
require '../assets/styles/admin.php';
require '../assets/styles/admin-options.php';
$page="seat";
?>
</head>
<body>
<!-- Requiring the admin header files -->
<?php require '../assets/partials/_admin-header.php';?>
<?php
$busSql = "Select * from buses";
$resultBusSql = mysqli_query($conn, $busSql);
$arr = array();
while($row = mysqli_fetch_assoc($resultBusSql))
$arr[] = $row;
$busJson = json_encode($arr);
?>

<section id="seat">
<div id="head">
<h4>Seat Status</h4>
</div>
<div id="main">
<form action="<?php echo $_SERVER['PHP_SELF']; ?>" method="GET">
<div class="searchBus">
<input type="text" id="bus-no" name="bus-no" placeholder="Bus Number"
class="busnoInput">
<div class="sugg">
</div>
</div>

<!-- Sending busJson -->
```

[illegible]

```

<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>
<td class="space">&nbsp;</td>
</tr>
<tr>
<td id="seat-21" data-name="21">21</td>
<td id="seat-22" data-name="22">22</td>
<td id="seat-23" data-name="23">23</td>
<td id="seat-24" data-name="24">24</td>
<td id="seat-25" data-name="25">25</td>
<td id="seat-26" data-name="26">26</td>
<td id="seat-27" data-name="27">27</td>
<td class="space">&nbsp;</td>
<td id="seat-28" data-name="28">28</td>
<td id="seat-29" data-name="29">29</td>
</tr>
<tr>
<td id="seat-30" data-name="30">30</td>
<td id="seat-31" data-name="31">31</td>
<td id="seat-32" data-name="32">32</td>
<td id="seat-33" data-name="33">33</td>
<td id="seat-34" data-name="34">34</td>
<td id="seat-35" data-name="35">35</td>
<td id="seat-36" data-name="36">36</td>
<td class="space">&nbsp;</td>
<td id="seat-37" data-name="37">37</td>
<td id="seat-38" data-name="38">38</td>
</tr>
</table>
<div style="text-align: center; color: #9a031e; font-weight: bold;">
<?php
echo $busno;
?>
</div>
<?php }
// If booked_seats is empty
else { ?>
<p>No seat Booked</p>
<?php }
}
?>
</div>
</div>
</section>
</div>
</main>
<script src="../../assets/scripts/admin_seat.js"></script>
</body>
</html>

```

**DOWNLOAD TICKET :-**



```
<?php
require '_functions.php';
$conn = db_connect();

if(!$conn)
die("Connection Failed");

if(isset($_GET["pnr"]))
{
$pnr = $_GET["pnr"];

$route_id = get_from_table($conn, "bookings", "booking_id", $pnr, "route_id");

$customer_id = get_from_table($conn, "bookings", "booking_id", $pnr, "customer_id");

$customer_name = get_from_table($conn, "customers", "customer_id", $customer_id, "customer_name");

$customer_phone = get_from_table($conn, "customers", "customer_id", $customer_id, "customer_phone");

$customer_route = get_from_table($conn, "bookings", "booking_id", $pnr, "customer_route");

$booked_amount = get_from_table($conn, "bookings", "booking_id", $pnr, "booked_amount");

$booked_seat = get_from_table($conn, "bookings", "booking_id", $pnr, "booked_seat");

$booked_timing = get_from_table($conn, "bookings", "booking_id", $pnr, "booking_created");

$dep_date = get_from_table($conn, "routes", "route_id", $route_id, "route_dep_date");

$dep_time = get_from_table($conn, "routes", "route_id", $route_id, "route_dep_time");

$bus_no = get_from_table($conn, "routes", "route_id", $route_id, "bus_no");

}
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link href="//netdna.bootstrapcdn.com/bootstrap/3.0.0/css/bootstrap.min.css" rel="stylesheet" id="bootstrap-css">
<script src="//netdna.bootstrapcdn.com/bootstrap/3.0.0/js/bootstrap.min.js"></script>
<script src="//code.jquery.com/jquery-1.11.1.min.js"></script>
<title>Document</title>
<style>
li{
list-style-type: none;
```

```
padding-left: 0;
}
</style>
</head>

<body>
<!-- <li>
<strong>PNR : </strong>
<?php echo $pnr; ?>
</li>
<li>
<strong>Customer Name : </strong>
<?php echo $customer_name; ?>
</li>
<li>
<strong>Customer Phone : </strong>
<?php echo $customer_phone; ?>
</li>
<li>
<strong>Route : </strong>
<?php echo $customer_route; ?>
</li>
<li>
<strong>Bus Number : </strong>
<?php echo $bus_no; ?>
</li>
<li>
<strong>Booked Seat Number : </strong>
<?php echo $booked_seat; ?>
</li>
<li>
<strong>Departure Date : </strong>
<?php echo $dep_date; ?>
</li>
<li>
<strong>Departure Time : </strong>
<?php echo $dep_time; ?>
</li>
<li>
<strong>Booked Timing : </strong>
<?php echo $booked_timing; ?>
</li> -->
<div class="container">
<div class="row">
<div class="well col-xs-10 col-sm-10 col-md-6 col-xs-offset-1 col-sm-offset-1 col-md-
offset-3">
<div class="row">
<div class="col-xs-6 col-sm-6 col-md-6">
<address>
<strong>S B T B S</strong>
<br>
Detroit, Mi 4646
```

```
</address>
</div>
<div class="col-xs-6 col-sm-6 col-md-6 text-right">

<p>
<em><b>Booked On:</b> <br><?php echo $booked_timing; ?></em>
</p>
</div>
</div>
<div class="row">
<div class="text-center">
<h4><b>PNR CODE:</b> <?php echo $pnr; ?></h5>
<h2>Ticket Details</h2>
</div>
</span>
<table class="table table-hover table-striped">
<!-- <thead>
<tr>
<td> </td>
<td> </td>
<th></th>

<th class="text-center"></th>

</tr>
</thead> -->
<tbody>
<tr>

<td class="col-md-6"><em><b>Customer Name:</b></em></h4></td>

<td class="col-md-6 text-center"><?php echo $customer_name; ?></td>

</tr>
<tr>

<td class="col-md-6"><em><b>Contact Details:</b></em></h4></td>

<td class="col-md-6 text-center"><?php echo $customer_phone; ?></td>

</tr>
<tr>

<td class="col-md-6"><em><b>Route:</b></em></h4></td>

<td class="col-md-6 text-center"><?php echo $customer_route; ?></td>

</tr>
<tr>
```

```

<td class="col-md-6"><em><b>Bus Number:</b></em></h4></td>
<td class="col-md-6 text-center"><?php echo $bus_no; ?></td>

</tr>

<tr>

<td class="col-md-6"><em><b>Seat Number:</b></em></h4></td>

<td class="col-md-6 text-center"><?php echo $booked_seat; ?></td>

</tr>

<tr>

<td class="col-md-6"><em><b>Departure Date:</b></em></h4></td>

<td class="col-md-6 text-center"><?php echo $dep_date; ?></td>

</tr>

<tr>

<td class="col-md-6"><em><b>Departure Time:</b></em></h4></td>

<td class="col-md-6 text-center"><?php echo $dep_time; ?></td>

</tr>

</tbody>
</table>
<!-- <div>
<h1 style="text-align:center;">
Thank you for your order.
</h1>

</div> -->
</div>
</div>
</div>

<div style="margin-top: 3rem;">
<button class="btn btn-primary">Print</button>
</div>

<script>
const printBtn = document.querySelector("button");

printBtn.addEventListener("click", () => window.print());
</script>

<style>

```

```

body {
margin-top: 20px;
}
</style>
</body>
</html>
<!-- Modal -->
<div class="modal fade" id="loginModal" tabindex="-1" aria-labelledby=
"exampleModalLabel" aria-hidden="true">
<div class="modal-dialog">
<div class="modal-content">
<div class="modal-header">
<h5 class="modal-title" id="loginModalLabel">Login As Admin</h5>
<button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
</div>
<div class="modal-body">
<form action="assets/partial/_handleLogin.php" method="POST">
<div class="mb-3">
<label for="username" class="form-label">Username</label>
<input type="text" class="form-control" id="username" name="username">
</div>
<div class="mb-3">
<label for="password" class="form-label">Password</label>
<input type="password" class="form-control" id="password" name="password">
<div class="form-text">We'll never share your password with anyone else.</div>
</div>
<button type="submit" class="btn btn-success" name="submit">Login</button>
</form>
</div>
<div class="modal-footer">
<!-- Add anything here in the future -->
</div>
</div>
</div>
</div>

```

**LOGOUT: -**

```

<?php

    session_start();
    session_unset();
    session_destroy();

    header("location: ../../index.php");
?>

```

## Conclusion

The project titled as **Online Bus Ticket Reservation System** was deeply studied and analyzed to design the code and implement. It was done under the guidance of the experienced project guide. All the current requirements and possibilities have been taken care during the project time.

the online bus ticket reservation system has transformed the travel industry by providing a user-friendly, efficient, and accessible way for passengers to plan and book their journeys.

## References

### For PHP

- <https://www.w3schools.com/php/default.asp>
- <https://www.sitepoint.com/php/>
- <https://www.php.net/>

### For MySQL

- <https://www.mysql.com/>

## Screenshots

### Home page

The image shows two screenshots of a web application. The top screenshot is the home page of the 'BUS TICKET' system, accessible at `localhost:8090/bus%20service/index.php`. It features a navigation bar with links: 'Pick Bus', 'Bus Operators', 'Routes map', 'Verify Payment', 'Cancel Ticket', and 'Contact'. The main content area has a large banner with the text 'Buy bus ticket at home through 5 easy steps' and a sequence of five numbered steps: 1. Search, 2. Book, 3. Confirm, 4. Pay, and 5. Ticket. To the right, there is a 'Pick Your Bus' form with fields for 'From:', 'To:', 'Date of Journey:', and 'Coach Type(optional):', along with a 'Search Bus' button. The bottom screenshot shows the admin dashboard at `localhost/SimpleBusTicket-PHP/SimpleBusTicket-PHP/admin/signup.php`. It displays a welcome message for 'Liam Moore' and a 'LOGOUT' button. The main section is titled 'ADD NEW ADMIN' and contains a form with fields for 'First Name\*', 'Last Name\*', 'Username\*', 'Password\*' (with a placeholder 'Please fill out this field.'), and 'Confirm Password\*'. A 'PROCEED' button is at the bottom of the form. The left sidebar shows the user profile as '@admin System Administrator' and a list of menu items: 'Dashboard', 'Buses', 'Routes', 'Customers', 'Bookings', 'Seats', and 'Add New Admin'. The right side of the dashboard features a large image of a red bus with an 'Activate Windows' watermark.

**BUS TICKET**  
FAST, EASY & SECURE

Pick Bus Bus Operators Routes map Verify Payment Cancel Ticket Contact

1 Search 2 Book 3 Confirm 4 Pay 5 Ticket

Buy bus ticket at home through 5 easy steps

**Pick Your Bus** [Search by voice](#) [Search by map](#)

**From:**  
Enter City

**To:**  
Enter City

**Date of Journey:**  
dd-----yyyy

**Coach Type(optional):**  
All

Search Bus

localhost/SimpleBusTicket-PHP/SimpleBusTicket-PHP/admin/signup.php

VEED - Create, Edit... (4) WhatsApp

**SBTBS**  
@admin  
System Administrator

Welcome, **Liam Moore** [LOGOUT](#)

**ADD NEW ADMIN**

First Name\* Last Name\*

Username\*

Password\* Please fill out this field.

Confirm Password\*


PROCEED

Activate Windows  
Go to Settings to activate Windows



## Bus Status :-

SBTBS



@admin  
System Administrator

Dashboard

Buses

Routes

Customers

Bookings

Seats

Add New Admin

Welcome, **Liam Moore**

Logout


Bus Status


Add Bus Details

#	Bus Number	Actions
1	CD125577	<a href="#">EDIT</a> <a href="#">DELETE</a>
2	CAS3300	<a href="#">EDIT</a> <a href="#">DELETE</a>
3	NBS4455	<a href="#">EDIT</a> <a href="#">DELETE</a>
4	SSX6633	<a href="#">EDIT</a> <a href="#">DELETE</a>
5	LLL7699	<a href="#">EDIT</a> <a href="#">DELETE</a>
6	MMM9969	<a href="#">EDIT</a> <a href="#">DELETE</a>
7	TTH8888	<a href="#">EDIT</a> <a href="#">DELETE</a>
8	RDH4255	<a href="#">EDIT</a> <a href="#">DELETE</a>
9	BCC9999	<a href="#">EDIT</a> <a href="#">DELETE</a>
10	XYZ7890	<a href="#">EDIT</a> <a href="#">DELETE</a>

Activate Windows  
Go to Settings to activate Windows.


Type here to search



ENG 11:50 AM  
IN 20-Nov-23

## Bus Route Status :-

SBTBS



@admin  
System Administrator

Dashboard

Buses

Routes

Customers

Bookings

Seats

Add New Admin

Welcome, **Liam Moore**

Logout


Route Status


Add Route Details

ID	Via Cities	Bus	Departure Date	Departure Time	Cost	Actions
RT-2042961	AURANGABAD-NAGAR	CD125577	2023-11-03	07:31:00	\$75	<a href="#">EDIT</a> <a href="#">DELETE</a>
RT-5887160	FLORIA,ARKBY	CAS3300	2021-10-19	10:30:00	\$118	<a href="#">EDIT</a> <a href="#">DELETE</a>
RT-6028759	BELRITH,ARKBY	LLL7699	2021-10-20	13:50:00	\$166	<a href="#">EDIT</a> <a href="#">DELETE</a>
RT-753558	ARKBY,VEIM	TTH8888	2021-10-20	12:04:00	\$55	<a href="#">EDIT</a> <a href="#">DELETE</a>
RT-775557	ENCEFORD,VLRGINIA	ABC0010	2021-10-19	13:30:00	\$131	<a href="#">EDIT</a> <a href="#">DELETE</a>
RT-9069556	ANTALAND,ZREGOW	XYZ7890	2021-10-19	11:40:00	\$85	<a href="#">EDIT</a> <a href="#">DELETE</a>
RT-9941455	EDROISCHESTER,BRUGOW	RDH4255	2021-10-18	10:00:00	\$110	<a href="#">EDIT</a> <a href="#">DELETE</a>
RT-3835554	ZEKA,ZREGOW	MMM9969	2021-10-19	23:13:00	\$70	<a href="#">EDIT</a> <a href="#">DELETE</a>
RT-1908653	CITY1,CITY2	MVL1000	2021-10-17	22:05:00	\$100	<a href="#">EDIT</a> <a href="#">DELETE</a>

Activate Windows  
Go to Settings to activate Windows.


Type here to search



ENG 11:51 AM  
IN 20-Nov-23

## Seat Status:-

SBTBS



@admin  
System Administrator

Dashboard

Buses

Routes

Customers

Bookings

Seats

Add New Admin

Welcome, **Liam Moore**

Logout

Seat Status


1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	
30	31	32	33	34	35	36	37	38	

MMM9969

Activate Windows  
Go to Settings to activate Windows.

## Customer Status:-

SBTBS



@admin  
System Administrator

Dashboard

Buses

Routes

Customers

Bookings

Seats

Add New Admin

Welcome, **Liam Moore**

Logout

Customer Status

ID	Name	Contact	Actions
CUST-9997540	Demo Customer	7777777700	<input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
CUST-4031139	Jamie Rhoades	1003000010	<input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
CUST-9474738	Alan Moore	7900000000	<input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
CUST-5585037	Bobb Horn	1111111110	<input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
CUST-2017936	George Watts	7011111111	<input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
CUST-8996235	William Hobbs	4012222222	<input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
CUST-2114034	Dfirst Dlast	7002001200	<input type="button" value="EDIT"/> <input type="button" value="DELETE"/>

Activate Windows  
Go to Settings to activate Windows.

# Output

## Table : Admin

**Description -:** This table store the Admin information.

No	Fieldname	Data Type	Size	Constraint	Description
1	Admin_id	int	6	Primary key	It stores id of the admin.
2	username	varchar	30	Unique key	It stores name of the admin.
3	password	varchar	30	Not null	It stores password of the admin.
4	email	varchar	50	Not null	It stores email-id of the admin.

## Table : Customer

**Description -:** This table are store the Customer information

No	Fieldname	Data Type	Size	Constraint	Description
1	Customer_id	int	6	Primary key	It stores id of the Customer..
2	username	varchar	30	Unique key	It stores name of the Customer..
3	password	varchar	30	Not null	It stores password of the Customer..
4	address	varchar	60	Not null	It stores address of Customer.
5	city	varchar	30	Not Null	It stores city of Customer for city table.
6	gender	varchar	6	Not null	It stores gender of Customer.
7	date_birth	date	-	Not null	It stores Customer date of birth.
8	contact_no	varchar	10	Not null	It stores Customer contact mobile no.
9	email	varchar	40	null	It stores email-id of the Customer.

## Table : route detail

**Description -:** This table are store the route information of the Ticket.

No	Fieldname	Data Type	Size	Constraint	Description
1	Route_id	int	11	Primary key	It stores id of the route.
2	Departure_station	varchar	30	Not Null	It stores departure station of the route
3	Arrival_station	varchar	30	Not Null	It stores arrival station of the route
4	Via_station	varchar	30	Not Null	It stores Via station of the route
5	Distance	varchar	5	Not Null	It store Total of Travel distance.
6	Rent	int	-	Not Null	It store price of ticket.

## Table : Ticket

**Description -:** This table are store the information of Ticket.

No	Fieldname	Data Type	Size	Constraint	Description
1	Trans_type	varchar	15	Primary key	It stores transaction type of the requirement.
2	Departure_time	varchar	30	Not Null	It stores departure time of the person
3	Arrival_time	varchar	30	Not Null	It stores arrival time of the person
2	Departure_station	varchar	30	Foreign key	Reference from Route_detail
3	Arrival_station	varchar	30	Foreign key	Reference from Route_detail
6	Via station	varchar	30	Foreign key	Reference from Route_detail
7	Distance	varchar	5	Not Null	It store Total of Travel distance.
8	Rent	int	-	Foreign key	Reference from Route_detail.

## Table : Payment

**Description -:** This table are store the information of the Payment.

No	Fieldname	Data Type	Size	Constraint	Description
1	Customer_id	int	6	Foreign key	Reference from Customer.
2	Owner Name	varchar	50	Not Null	It stores card holder name.
3	Bank	Varchar	20	Not Null	It store bank name.
4	Trans_type	varchar	15	Not null	It stores transaction type of the customer.
5	Ticket_type	varchar	20	Foreign key	Reference from Ticket.
6	Total_Rent	int	-	Not null	It store total rent of payment.

## Table : Book\_Detail

**Description -:** This table are store the information of the book Detail.

No	Fieldname	Data Type	Size	Constraint	Description
1	Seat_no	int	3	Primary key	It stores Seat no .
2	Route_id	int	11	Foreign key	It stores id of the route.
3	Journey_Date	Date	-	Not Null	It stores travelling date.
4	Booking_Date	Date	-	Not Null	It stores booking date.
5	Distance	int	5	Foreign key	It store journey distance.
6	Rent	int	-	Foreign key	Reference from Route_detail.
7	Bus_Type	varchar	30	Foreign key	Reference from Bus.
8	Choice	varchar	15	Null	It stores choice of seat.



## Table : Password\_Update

**Description** -: This table are store the information of the change password.

No	Fieldname	Data Type	Size	Constraint	Description
1	Id	int	6	foreign key	It stores id.
2	Old_Password	varchar	30	foreign key	It stores old password.
3	New_Passwrđ	varchar	30	Not Null	It stores new password.
4	Type	varchar	10	Not Null	It stores admin or customer login in site.

## Table : contact\_us

**Description** -: This table are store the all contact person detail.

No	Fieldname	Data Type	Size	Constraint	Description
1	Customer_id	int	11	Foreign key	It stores id of the contact us.
2	username	varchar	30	Foreign key	It stores name of the person.
3	email	varchar	30	Null	It stores email-id of the person.
4	message	text		Not null	It stores message of the person.