

## CHAPTER1

### INTRODUCTION

#### **1.1 AIM**

The aim of the Hotel Management DBMS Mini Project is to design and implement a user-friendly and efficient database system to streamline hotel operations, enhance guest experience, and facilitate effective management.

#### **1.2 Problem statement**

The Hotel Management DBMS Mini Project aims to address the inefficiencies and complexities inherent in manual hotel management systems by developing a comprehensive database solution. The project seeks to overcome challenges such as manual data entry errors, difficulty in managing reservations and room allocations, inefficient billing processes, and lack of centralized data management.

#### **1.3 Objective of the project**

1. **Efficient Reservation Handling:** Enable users to quickly book rooms, modify reservations, and view availability, ensuring seamless guest experiences and optimal room occupancy.
2. **Streamlined Guest Management:** Facilitate easy registration, check-in, and check-out processes, along with maintaining guest profiles and preferences for personalized services.
3. **Effective Resource Management:** Manage inventory, staff schedules, and room allocation efficiently to optimize resource utilization and minimize operational costs.

#### **1.4 Proposed solutions**

The proposed solution for the Hotel Management DBMS Mini Project includes designing and implementing a relational database system with tables for guests, rooms, reservations, staff, and billing. The system will automate reservation processes, facilitate efficient room allocation.

## CHAPTER 2

### SYSTEM DESIGN

#### 2.1 Schema Diagram

A schema diagram for a hotel management system illustrates the structure of its database, depicting entities like Guest, Room, Reservation, and their attributes. Relationships between entities are shown, along with primary and foreign keys for data integrity. It provides a concise overview of the system's data organization.

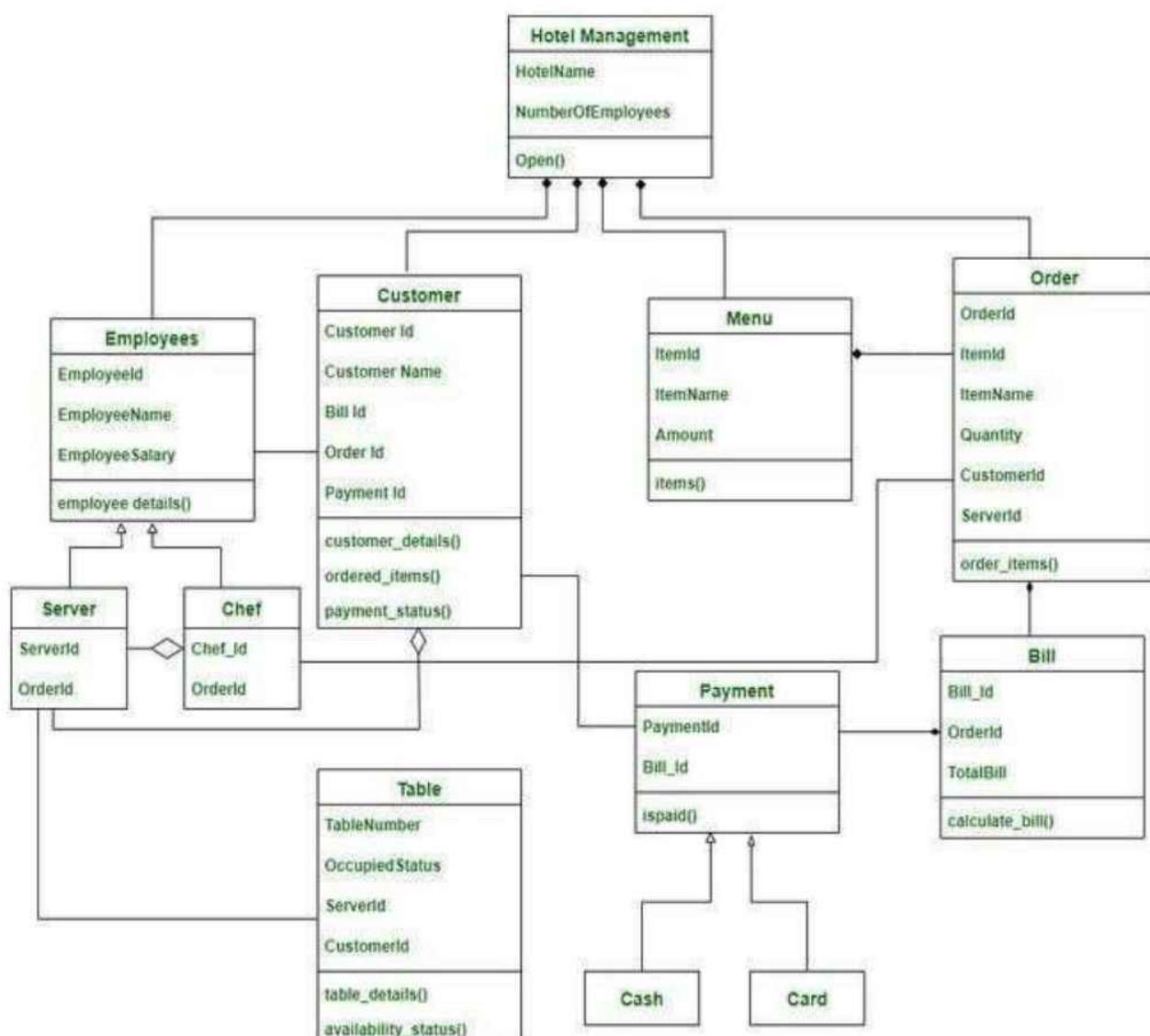
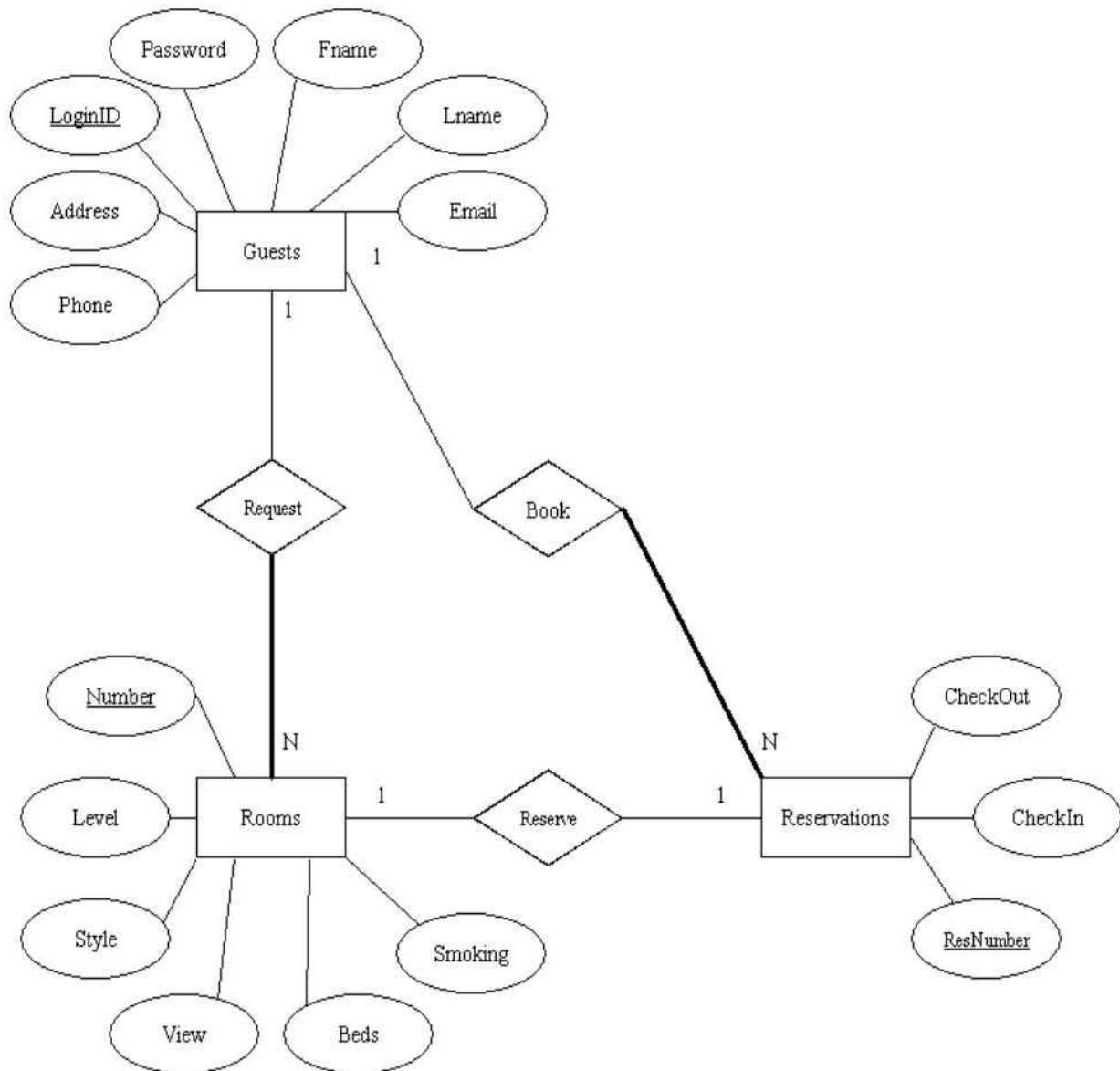


Fig 2.1 Scheme diagram for Hotel Management System

## 2.2 E-R Diagram for Hotel management System

An Entity-Relationship (E-R) diagram for a hotel management system visually represents entities like Guest, Room, Reservation, and their relationships. It illustrates how data is organized within the system, aiding in understanding the structure and flow of information.



**Fig 2.2 E-R Diagram for Hotel Management System**

## CHAPTER 3

### IMPLEMENTATION

#### **3.1 Languages used for implementation**

- **HTML:** HTML to create a structure of the user interface.
- **CSS:** CSS to design the layout, to make it visually appealing
- **PHP:** PHP is a popular programming language that is commonly used to create web applications. It can be used to develop an Hotel Management system that is accessible via a web browser. And also, to handle back-end tasks such as database interactions and user authentication.
- **JavaScript:** JavaScript is a programming language primarily used to create interactive effects within web browsers. It is used to implement an application that runs in a web browser or as a mobile app.
- **SQL :** For hotel database management system.

#### **3.2 Platform used for implementation**

For the implementation of the Hotel Management DBMS Mini Project, a robust and versatile platform such as MySQL will be utilized. MySQL offers a powerful relational database management system that is widely used for its reliability, scalability, and performance. With its support for SQL queries, transactions, and data integrity constraints, MySQL provides an ideal platform for designing and implementing the complex data structures required for hotel management systems. Additionally, MySQL's compatibility with various programming languages and frameworks allows for seamless integration with the project's user interface, enabling efficient interaction between the database and the frontend application.

### 3.3 SQL Commands and Queries

#### Creation of Table structure for table “login”

```
CREATE TABLE IF NOT EXISTS `login` (
`id` int(10) unsigned NOT NULL,
`usname` varchar(30) DEFAULT NULL,
`pass` varchar(30) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=3 ;
```

#### Insertion of values into “login”

```
INSERT INTO `login` (`id`, `usname`, `pass`) VALUES
(1, 'Admin', '1234'),
(2, 'Prasath', '12345');
```

#### Creation of Table structure for table “contact”

```
CREATE TABLE IF NOT EXISTS `contact` (
`id` int(10) unsigned NOT NULL,
`fullname` varchar(100) DEFAULT NULL,
`phoneno` int(10) DEFAULT NULL,
`email` text,
`cdate` date DEFAULT NULL,
`approval` varchar(12) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
```

#### Creation of Table structure for table “newsletterlog”

```
CREATE TABLE IF NOT EXISTS `newsletterlog` (
`id` int(10) unsigned NOT NULL,
`title` varchar(52) DEFAULT NULL,
`subject` varchar(100) DEFAULT NULL,
`news` text
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
```

#### Creation of Table structure for table “payment”

```
CREATE TABLE IF NOT EXISTS `payment` (
`id` int(11) DEFAULT NULL,
`title` varchar(5) DEFAULT NULL,
`fname` varchar(30) DEFAULT NULL,
`lname` varchar(30) DEFAULT NULL,
```

```
`troom` varchar(30) DEFAULT NULL,  
 `tbed` varchar(30) DEFAULT NULL,  
 `nroom` int(11) DEFAULT NULL,  
 `cin` date DEFAULT NULL,  
 `cout` date DEFAULT NULL,  
 `ttot` double(8,2) DEFAULT NULL,  
 `fintot` double(8,2) DEFAULT NULL,  
 `mepr` double(8,2) DEFAULT NULL,  
 `meal` varchar(30) DEFAULT NULL,  
 `btot` double(8,2) DEFAULT NULL,  
 `noofdays` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

### **— Creation of Table structure for table “room”**

```
CREATE TABLE IF NOT EXISTS `room` (  
 `id` int(10) unsigned NOT NULL,  
 `type` varchar(15) DEFAULT NULL,  
 `bedding` varchar(10) DEFAULT NULL,  
 `place` varchar(10) DEFAULT NULL,  
 `cusid` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=16;
```

### **— Insertion of data for table “room”**

```
INSERT INTO `room`(`id`, `type`, `bedding`, `place`, `cusid`)  
VALUES  
(1, 'Superior Room', 'Single', 'Free', NULL),  
(2, 'Superior Room', 'Double', 'Free', NULL),  
(3, 'Superior Room', 'Triple', 'Free', NULL),  
(4, 'Single Room', 'Quad', 'Free', NULL),  
(5, 'Superior Room', 'Quad', 'Free', NULL),  
(6, 'Deluxe Room', 'Single', 'Free', NULL),  
(7, 'Deluxe Room', 'Double', 'Free', NULL),  
(8, 'Deluxe Room', 'Triple', 'Free', NULL),  
(9, 'Deluxe Room', 'Quad', 'Free', NULL),  
(10, 'Guest House', 'Single', 'Free', NULL),  
(11, 'Guest House', 'Double', 'Free', NULL),  
(12, 'Guest House', 'Quad', 'Free', NULL),  
(13, 'Single Room', 'Single', 'Free', NULL),
```

(14, 'Single Room', 'Double', 'Free', NULL),  
(15, 'Single Room', 'Triple', 'Free', NULL);

### **□ Creation of Table structure for table “roombook”**

```
CREATE TABLE IF NOT EXISTS `roombook` (
`id` int(10) unsigned NOT NULL,
`Title` varchar(5) DEFAULT NULL,
`FName` text,
`LName` text,
`Email` varchar(50) DEFAULT NULL,
`National` varchar(30) DEFAULT NULL,
`Country` varchar(30) DEFAULT NULL,
`Phone` text,
`TRoom` varchar(20) DEFAULT NULL,
`Bed` varchar(10) DEFAULT NULL,
`NRoom` varchar(2) DEFAULT NULL,
`Meal` varchar(15) DEFAULT NULL,
`cin` date DEFAULT NULL,
`cout` date DEFAULT NULL,
`stat` varchar(15) DEFAULT NULL,
`nодays` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=2 ;
```

### **□ Adding primary key's for the above created tables**

- For contact table**

```
ALTER TABLE `contact`
ADD PRIMARY KEY (`id`);
```

- For login table**

```
ALTER TABLE `login`
ADD PRIMARY KEY (`id`);
```

- For newsletterlog table**

```
ALTER TABLE `roombook`
```

---

```
ADD PRIMARY KEY (`id`);
```

## **□ Adding Auto\_increment for the above created tables**

- For contact table**

```
ALTER TABLE `contact`
```

```
MODIFY `id` int(10) unsigned NOT NULL AUTO_INCREMENT;
```

- For login table**

```
ALTER TABLE `login`
```

```
MODIFY `id` int(10) unsigned NOT NULL  
AUTO_INCREMENT,AUTO_INCREMENT=3;
```

- For newsletterlog table**

```
ALTER TABLE `newsletterlog`
```

```
MODIFY `id` int(10) unsigned NOT NULL AUTO_INCREMENT;
```

- For room table**

```
ALTER TABLE `room`
```

```
MODIFY `id` int(10) unsigned NOT NULL  
AUTO_INCREMENT,AUTO_INCREMENT=16;
```

- For roombook table**

```
ALTER TABLE `roombook`
```

```
MODIFY `id` int(10) unsigned NOT NULL  
AUTO_INCREMENT,AUTO_INCREMENT=2;
```

```
/*!40101 SET  
CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;  
/*!40101 SET  
CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;  
/*!40101 SET  
COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

---

### 3.4\_ Code for home page

```
<?php
session_start();
if(!isset($_SESSION["user"])){
    header("location:index.php");
}
?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Administrator </title>
    <!-- Bootstrap Styles-->
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <!-- FontAwesome Styles-->
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <!-- Morris Chart Styles-->
    <link href="assets/js/morris/morris-0.4.3.min.css" rel="stylesheet" />
    <!-- Custom Styles-->
    <link href="assets/css/custom-styles.css" rel="stylesheet" />
    <!-- Google Fonts-->
    <link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet'
type='text/css' />
</head>
<body>
<div id="wrapper">
<nav class="navbar navbar-default top-navbar" role="navigation">
<div class="navbar-header">
<button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".sidebar-collapse"> <span class="sr-only">Toggle navigation</span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
</button>
<a class="navbar-brand" href="home.php"> <?php echo $_SESSION["user"]; ?>
</a> </div>
<ul class="nav navbar-top-links navbar-right">
```

```
<li class="dropdown">
<a class="dropdown-toggle" data-toggle="dropdown" href="#" aria-expanded="false">
<i class="fa fa-user fa-fw"></i> <i class="fa fa-caret-down"></i></a>
<ul class="dropdown-menu dropdown-user">
<li><a href="usersetting.php"><i class="fa fa-user fa-fw"></i> User Profile</a>
</li>
<li><a href="settings.php"><i class="fa fa-gear fa-fw"></i> Settings</a></li>
<li class="divider"></li>
<li><a href="logout.php"><i class="fa fa-sign-out fa-fw"></i> Logout</a></li>
</ul>
<!-- /.dropdown-user -->
</li>
<!-- /.dropdown -->
</ul></nav>
<!--/. NAV TOP -->
<nav class="navbar-default navbar-side" role="navigation">
<div class="sidebar-collapse">
<ul class="nav" id="main-menu">
<li><a class="active-menu" href="home.php"><i class="fa fa-dashboard"></i> Status</a>
</li><li>
<a href="messages.php"><i class="fa fa-desktop"></i> News Letters</a></li>
<li>
<a href="roombook.php"><i class="fa fa-bar-chart-o"></i> Room Booking</a>
</li><li>
<a href="payment.php"><i class="fa fa-qrcode"></i> Payment</a></li>
<li><a href="profit.php"><i class="fa fa-qrcode"></i> Profit</a>
</li>
<li><a href="logout.php"><i class="fa fa-sign-out fa-fw"></i> Logout</a>
</li>
</ul>
</div>
</nav>
<!-- /. NAV SIDE -->
<div id="page-wrapper">
<div id="page-inner">
<div class="row">
<div class="col-md-12">
<h1 class="page-header">
```

```
Status <small>Room Booking </small>
</h1></div>
</div>
<!-- /. ROW -->
<?php
include ('db.php');
$sql = "select * from roombook";
$re = mysqli_query($con,$sql);
$c =0;
while($row=mysqli_fetch_array($re)){
$new = $row['stat'];
$cin = $row['cin'];
$id = $row['id'];
if($new=="Not Conform"){
    $c = $c + 1;
}
}
?>
<div class="row">
<div class="col-md-12">
<div class="panel panel-default">
<div class="panel-heading"></div>
<div class="panel-body">
<div class="panel-group" id="accordion">
<div class="panel panel-primary">
<div class="panel-heading">
<h4 class="panel-title">
<a data-toggle="collapse" data-parent="#accordion" href="#collapseTwo">
<button class="btn btn-default" type="button">
New Room Bookings <span class="badge"><?php echo $c ; ?></span>
</button></a>
</h4></div>
<div id="collapseTwo" class="panel-collapse in" style="height: auto;">
<div class="panel-body">
<div class="panel panel-default">
<div class="panel-body">
<div class="table-responsive">
<table class="table">
<thead><tr>
<th>#</th>
```

```
<th>Name</th>
<th>Email</th>
<th>Country</th>
<th>Room</th>
<th>Bedding</th>
<th>Meal</th>
<th>Check In</th>
<th>Check Out</th>
<th>Status</th>
<th>More</th>
</tr></thead>
<tbody>
<?php
$tsql = "select * from roombook";
$tre = mysqli_query($con,$tsql);
while($trow=mysqli_fetch_array($tre )){
    $co =$trow['stat'];
    if($co=="Not Conform"){
        echo"<tr>
<th>".$trow['id']."'</th>
<th>".$trow['FName']."' ".$trow['LName']."'</th>
<th>".$trow['Email']."'</th>
<th>".$trow['Country']."'</th>
<th>".$trow['TRoom']."'</th>
<th>".$trow['Meal']."'</th>
<th>".$trow['cin']."'</th>
<th>".$trow['cout']."'</th>
<th>".$trow['stat']."'</th>
<th><a href='roombook.php?rid='".$trow['id']."' ' class='btn btn-primary'>Action</a></th>
</tr>" ;
    }
?>
</tbody></table>
</div></div>
</div>
<!-- End Basic Table -->
</div></div>
</div>
<?php
```

```
$rsql = "SELECT * FROM `roombook`";
$rre = mysqli_query($con,$rsql);
$r =0;
while($row=mysqli_fetch_array($rre) ){
    $br = $row['stat'];
    if($br=="Conform"){
        $r = $r + 1;

    }
?>
<div class="panel panel-info">
<div class="panel-heading">
<h4 class="panel-title">
<a data-toggle="collapse" data-parent="#accordion" href="#collapseOne"
class="collapsed">
<button class="btn btn-primary" type="button">
Booked Rooms <span class="badge"><?php echo $r ; ?></span></button></a>
</h4></div>
<div id="collapseOne" class="panel-collapse collapse" style="height: 0px;">
<div class="panel-body">
<?php
$msql = "SELECT * FROM `roombook`";
$mre = mysqli_query($con,$msql);
while($mrow=mysqli_fetch_array($mre) ){
    $br = $mrow['stat'];

    if($br=="Conform"){
        $fid = $mrow['id'];
echo "<div class='col-md-3 col-sm-12 col-xs-12'>
<div class='panel panel-primary text-center no-boder bg-color-blue'>
<div class='panel-body'>
<i class='fa fa-users fa-5x'></i>
<h3>".$mrow['FName']. "</h3></div>
<div class='panel-footer back-footer-blue'>
<a href=show.php?sid=".$fid . "><button class='btn btn-primary btn' data-
toggle='modal' data-target='#myModal'>
Show
</button></a>
".$mrow['TRoom']. "</div>
```

```
</div></div>";}
}
?>
</div></div> </div>
<?php
$fsql = "SELECT * FROM `contact`";
$fre = mysqli_query($con,$fsql);
$f =0;
while($row=mysqli_fetch_array($fre )){
    $f = $f + 1;
}
?>
<div class="panel panel-danger">
<div class="panel-heading">
<h4 class="panel-title">
<a data-toggle="collapse" data-parent="#accordion" href="#collapseThree"
class="collapsed">
<button class="btn btn-primary" type="button">
Followers <span class="badge"><?php echo $f ; ?></span></button>
</a></h4></div>
<div id="collapseThree" class="panel-collapse collapse">
<div class="panel-body">
<div class="panel-body">
<div class="table-responsive">
<table class="table">
<thead>
<tr><th>#</th>
    <th>Full Name</th>
    <th>Email</th>
    <th>Follow Start</th>
    <th>Permission status</th></tr>
</thead>
<tbody>
<?php
    $csq = "select * from contact";
    $cre = mysqli_query($con,$csq);
    while($crow=mysqli_fetch_array($cre )){
        echo"<tr>
<th>".$crow['id']. "</th>
<th>".$crow['fullname']. "</th>
```

```
<th>".$row['email']."' </th>
<th>".$row['cdate']."' </th>
<th>".$row['approval']."' </th>
</tr>";
}
?>
</tbody></table>
<a href="messages.php" class="btn btn-primary">More Action</a>
</div></div></div>
</div></div></div>
</div></div>
<!-- DEOMO-->
<div class='panel-body'>
<button class='btn btn-primary btn' data-toggle='modal' data-target='#myModal'>
    Update </button>
<div class='modal fade' id='myModal' tabindex='-1' role='dialog' aria-
labelledby='myModalLabel' aria-hidden='true'>
    <div class='modal-dialog'>
        <div class='modal-content'>
            <div class='modal-header'>
                <button type='button' class='close' data-dismiss='modal' aria-
hidden='true'>&times;</button>
                <h4 class='modal-title' id='myModalLabel'>Change the User name and
                Password</h4>
            </div>
            <form method='post'>
                <div class='modal-body'>
                    <div class='form-group'>
                        <label>Change User name</label>
                        <input name='usname' value='<?php echo $fname; ?>' class='form-control'>
                        <placeholder>Enter User name</placeholder>
                    </div>
                </div>
                <div class='modal-body'>
                    <div class='form-group'>
                        <label>Change Password</label>
                        <input name='pasd' value='<?php echo $ps; ?>' class='form-control'>
                        <placeholder>Enter Password</placeholder>
                    </div>
                </div>
                <div class='modal-footer'>
                    <button type='button' class='btn btn-default' data-

```

```
dismiss='modal'>Close</button>
<input type='submit' name='up' value='Update' class='btn btn-primary'></form>
</div></div>
</div></div>
</div>
<!--DEMO END-->
<!-- /. ROW -->
</div>
<!-- /. PAGE INNER -->
</div>
<!-- /. PAGE WRAPPER -->
</div>
<!-- /. WRAPPER -->
<!-- JS Scripts-->
<!-- jQuery Js -->
<script src="assets/js/jquery-1.10.2.js"></script>
<!-- Bootstrap Js -->
<script src="assets/js/bootstrap.min.js"></script>
<!-- Metis Menu Js -->
<script src="assets/js/jquery.metisMenu.js"></script>
<!-- Morris Chart Js -->
<script src="assets/js/morris/raphael-2.1.0.min.js"></script>
<script src="assets/js/morris/morris.js"></script>
<!-- Custom Js -->
<script src="assets/js/custom-scripts.js"></script>
</body>
</html>
```

### 3.5\_ Code for index.php

```
<?php
session_start();
if(isset($_SESSION["user"])) {
    header("location:home.php");
}
?>
<!DOCTYPE html>
<html >
```

```
<head>
<meta charset="UTF-8">
<title>MANTIS MIND ADMIN</title>
<link rel="stylesheet" href="css/style.css">
</head>
<body>
<div class="container">
<div id="login">
<form method="post">
<fieldset class="clearfix">
<p><span class="fontawesome-user"></span><input type="text" name="user" value="Username" onBlur="if(this.value == '') this.value = 'Username'" onFocus="if(this.value == 'Username') this.value = '' required></p> <!-- JS because of IE support; better: placeholder="Username" -->
<p><span class="fontawesome-lock"></span><input type="password" name="pass" value="Password" onBlur="if(this.value == '') this.value = 'Password'" onFocus="if(this.value == 'Password') this.value = '' required></p> <!-- JS because of IE support; better: placeholder="Password" -->
<p><input type="submit" name="sub" value="Login"></p></fieldset>
</form>
</div> <!-- end login --></div>
<div class="bottom"> <h3><a href="../index.php">MANTIS MIND HOMEPAGE</a></h3></div>
</body></html>
<?php
include('db.php');
if($_SERVER["REQUEST_METHOD"] == "POST") {
$myusername = mysqli_real_escape_string($con,$_POST['user']);
$mypassword = mysqli_real_escape_string($con,$_POST['pass']);
$sql = "SELECT id FROM login WHERE usname = '$myusername' and pass = '$mypassword'";
$result = mysqli_query($con,$sql);
$row = mysqli_fetch_array($result,MYSQLI_ASSOC);
```

```
$active = $row['active'];
$count = mysqli_num_rows($result);
if($count == 1) {
$_SESSION['user'] = $myusername;
header("location: home.php");
} else {
echo '<script>alert("Your Login Name or Password is invalid") </script>';
}
?>
```

### **3.6 – Code for logout page**

```
<?php
session_start();
unset($_SESSION["user"]);
header("location:index.php");
?>
```

### **3.7 – Code for payment page**

```
<?php
session_start();
if(!isset($_SESSION["user"])){
header("location:index.php");
}
?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>MANTIS HOTEL</title>
```

```
<!-- Bootstrap Styles-->
<link href="assets/css/bootstrap.css" rel="stylesheet" />
<!-- FontAwesome Styles-->
<link href="assets/css/font-awesome.css" rel="stylesheet" />
<!-- Morris Chart Styles-->

<!-- Custom Styles-->
<link href="assets/css/custom-styles.css" rel="stylesheet" />
<!-- Google Fonts-->
<link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet'
type='text/css' />
<!-- TABLE STYLES-->
<link href="assets/js/dataTables/dataTables.bootstrap.css" rel="stylesheet" />
</head>
<body>
<div id="wrapper">
<nav class="navbar navbar-default top-navbar" role="navigation">
<div class="navbar-header">
<button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".sidebar-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span></button>
<a class="navbar-brand" href="home.php"><?php echo $_SESSION["user"]; ?>
</a></div>
<ul class="nav navbar-top-links navbar-right">
<li class="dropdown">
<a class="dropdown-toggle" data-toggle="dropdown" href="#" aria-
expanded="false">
<i class="fa fa-user fa-fw"></i> <i class="fa fa-caret-down"></i></a>
<ul class="dropdown-menu dropdown-user">
```

```
<li><a href="usersetting.php"><i class="fa fa-user fa-fw"></i> User  
Profile</a></li>  
<li><a href="settings.php"><i class="fa fa-gear fa-fw"></i> Settings</a></li>  
<li class="divider"></li>  
<li><a href="logout.php"><i class="fa fa-sign-out fa-fw"></i> Logout</a></li>  
</ul>  
<!-- /.dropdown-user --></li>  
<!-- /.dropdown -->  
</ul></nav>  
<!--/. NAV TOP -->  
<nav class="navbar-default navbar-side" role="navigation">  
<div class="sidebar-collapse">  
<ul class="nav" id="main-menu">  
<li>  
<a href="home.php"><i class="fa fa-dashboard"></i> Status</a></li>  
<li>  
<a href="messages.php"><i class="fa fa-desktop"></i> News Letters</a></li>  
<li>  
<a href="roombook.php"><i class="fa fa-bar-chart-o"></i>Room Booking</a>  
</li><li>  
<a class="active-menu" href="payment.php"><i class="fa fa-qrcode"></i>  
Payment</a> </li>  
<li>  
<a href="profit.php"><i class="fa fa-qrcode"></i> Profit</a></li>  
<li>  
<a href="logout.php" ><i class="fa fa-sign-out fa-fw"></i> Logout</a></li>  
</div></nav>  
<!-- /. NAV SIDE -->  
<div id="page-wrapper" >  
<div id="page-inner">  
<div class="row">  
<div class="col-md-12">
```

```
<h1 class="page-header">
Payment Details<small> </small>
</h1></div></div>
<!-- /. ROW -->
<div class="row">
<div class="col-md-12">
<!-- Advanced Tables -->
<div class="panel panel-default">
<div class="panel-body">
<div class="table-responsive">
<table class="table table-striped table-bordered table-hover" id="dataTables-example">
<thead><tr>
<th>Name</th>
<th>Room type</th>
<th>Bed Type</th>
<th>Check in</th>
<th>Check out</th>
<th>No of Room</th>
<th>Meal Type</th>
<th>Room Rent</th>
<th>Bed Rent</th>
<th>Meals </th>
<th>Gr.Total</th>
<th>Print</th>
</tr></thead>
<tbody>
<?php
include ('db.php');
$sql="select * from payment";
$re = mysqli_query($con,$sql);
```

```
while($row = mysqli_fetch_array($re))
$id = $row['id'];
if($id % 2 ==1 ){
echo"<tr class='gradeC'>
<td>".$row['title']."' ".$row['fname']."' ".$row['lname']."'</td>
<td>".$row['troom']."'</td>
<td>".$row['tbed']."'</td>
<td>".$row['cin']."'</td>
<td>".$row['cout']."'</td>
<td>".$row['nroom']."'</td>
<td>".$row['ttot']."'</td>
<td>".$row['mepr']."'</td>
<td>".$row['btot']."'</td>
<td>".$row['fintot']."'</td>
<td><a href=print.php?pid=".$id ." <button class='btn btn-primary'> <i class='fa fa-print' ></i> Print</button></td>
</tr>";}
else{
echo"<tr class='gradeU'>
<td>".$row['title']."' ".$row['fname']."' ".$row['lname']."'</td>
<td>".$row['troom']."'</td>
<td>".$row['tbed']."'</td>
<td>".$row['cin']."'</td>
<td>".$row['cout']."'</td>
<td>".$row['nroom']."'</td>
<td>".$row['meal']."'</td>
<td>".$row['ttot']."'</td>
<td>".$row['mepr']."'</td>
<td>".$row['btot']."'</td>
<td>".$row['fintot']."'</td>
<td><a href=print.php?pid=".$id ." <button class='btn btn-primary'> <i class='fa fa-print' ></i> Print</button></td>
```

```
</tr>";
    }
?>
</tbody></table>
</div></div></div>
<!--End Advanced Tables -->
</div></div>
<!-- /. ROW -->
</div></div></div>
<!-- /. PAGE INNER -->
</div>
<!-- /. PAGE WRAPPER -->
<!-- /. WRAPPER -->
<!-- JS Scripts-->
<!-- jQuery Js -->
<script src="assets/js/jquery-1.10.2.js"></script>
<!-- Bootstrap Js -->
<script src="assets/js/bootstrap.min.js"></script>
<!-- Metis Menu Js -->
<script src="assets/js/jquery.metisMenu.js"></script>
<!-- DATA TABLE SCRIPTS -->
<script src="assets/js/dataTables/jquery.dataTables.js"></script>
<script src="assets/js/dataTables/dataTables.bootstrap.js"></script>
<script>
$(document).ready(function () {
    $('#dataTables-example').dataTable();
});
</script>
<!-- Custom Js -->
<script src="assets/js/custom-scripts.js"></script></body>
</html>
```

### 3.8 □ Code for room book

```
<?php
session_start();
if(!isset($_SESSION["user"])){
header("location:index.php");}
?>
<?php
if(!isset($_GET["rid"])){
header("location:index.php");
}
else {
$curdate=date("Y/m/d");
include ('db.php');
$id = $_GET['rid'];
$sql ="Select * from roombook where id = '$id'";
$re = mysqli_query($con,$sql);
while($row=mysqli_fetch_array($re)){
$title = $row['Title'];
$fname = $row['FName'];
$lname = $row['LName'];
$email = $row['Email'];
$nat = $row['National'];
$country = $row['Country'];
$Phone = $row['Phone'];
$troom = $row['TRoom'];
$nroom = $row['NRoom'];
$bed = $row['Bed'];
$non = $row['NRoom'];
$meal = $row['Meal'];
$cin = $row['cin'];
```

```
$cout = $row['cout'];
$sta = $row['stat'];
$days = $row['nodays'];
}}
?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Administrator </title>
    <!-- Bootstrap Styles-->
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <!-- FontAwesome Styles-->
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <!-- Morris Chart Styles-->
    <link href="assets/js/morris/morris-0.4.3.min.css" rel="stylesheet" />
    <!-- Custom Styles-->
    <link href="assets/css/custom-styles.css" rel="stylesheet" />
    <!-- Google Fonts-->
    <link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet'
type='text/css' />
</head>
<body>
    <div id="wrapper">
        <nav class="navbar navbar-default top-navbar" role="navigation">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".sidebar-collapse">
                    <span class="sr-only">Toggle navigation</span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
```

```
<span class="icon-bar"></span></button>
<a class="navbar-brand" href="home.php"><?php echo $_SESSION["user"]; ?>
</a></div>
<ul class="nav navbar-top-links navbar-right">
<li class="dropdown">
<a class="dropdown-toggle" data-toggle="dropdown" href="#" aria-
expanded="false">
<i class="fa fa-user fa-fw"></i> <i class="fa fa-caret-down"></i></a>
<ul class="dropdown-menu dropdown-user">
<li><a href="usersetting.php"><i class="fa fa-user fa-fw"></i> User Profile</a>
</li>
<li><a href="settings.php"><i class="fa fa-gear fa-fw"></i> Settings</a></li>
<li class="divider"></li>
<li><a href="logout.php"><i class="fa fa-sign-out fa-fw"></i> Logout</a></li>
</ul>
<!-- /.dropdown-user -->
</li>
<!-- /.dropdown -->
</ul></nav>
<!--/. NAV TOP -->
<nav class="navbar-default navbar-side" role="navigation">
<div class="sidebar-collapse">
<ul class="nav" id="main-menu">
<li><a href="home.php"><i class="fa fa-dashboard"></i> Status</a></li>
<li><a href="messages.php"><i class="fa fa-desktop"></i> News Letters</a></li>
<li><a class="active-menu" href="roombook.php"><i class="fa fa-bar-chart-
o"></i> Room Booking</a></li>
<li><a href="payment.php"><i class="fa fa-qrcode"></i> Payment</a></li>
<li><a href="profit.php"><i class="fa fa-qrcode"></i> Profit</a></li>
<li><a href="logout.php"><i class="fa fa-sign-out fa-fw"></i> Logout</a></li>
</ul></div>
</nav>
```

```
<!-- /. NAV SIDE -->
<div id="page-wrapper">
<div id="page-inner">
<div class="row">
<div class="col-md-12">
<h1 class="page-header">
Room Booking<small> <?php echo $curdate; ?></small>
</h1></div>
<div class="col-md-8 col-sm-8">
<div class="panel panel-info">
<div class="panel-heading">Booking Conformation</div>
<div class="panel-body">
<div class="table-responsive">
<table class="table">
<tr><th>DESCRIPTION</th>
<th>INFORMATION</th>
</tr>
<tr>
<th>Name</th>
<th><?php echo $title.$fname.$lname; ?></th>
</tr><tr>
<th>Email</th>
<th><?php echo $email; ?></th></tr>
<tr><th>Nationality </th>
<th><?php echo $nat; ?></th>
</tr><tr>
<th>Country </th>
<th><?php echo $country; ?></th>
</tr><tr>
<th>Phone No </th>
<th><?php echo $Phone; ?></th>
```

```
</tr><tr>
<th>Type Of the Room </th>
<th><?php echo $troom; ?></th> </tr>
<tr><th>No Of the Room </th>
<th><?php echo $nroom; ?></th>
</tr><tr>
<th>Meal Plan </th>
<th><?php echo $meal; ?></th>
</tr><tr>
<th>Bedding </th>
<th><?php echo $bed; ?></th>
</tr><tr>
<th>Check-in Date </th>
<th><?php echo $cin; ?></th>
</tr><tr>
<th>Check-out Date</th>
<th><?php echo $cout; ?></th>
</tr><tr>
<th>No of days</th>
<th><?php echo $days; ?></th>
</tr><tr>
<th>Status Level</th>
<th><?php echo $sta; ?></th></tr>
</table></div></div>
<div class="panel-footer">
<form method="post">
<div class="form-group">
<label>Select the Conformation</label>
<select name="conf" class="form-control">
<option value selected> </option>
<option value="Conform">Conform</option></select>
```

```
</div>
<input type="submit" name="co" value="Conform" class="btn btn-success">
</form></div></div></div>
<?php
$rsql ="select * from room";
$rre= mysqli_query($con,$rsql);
$r =0 ;
$sc =0;
$gh = 0;
$dr = 0;
while($rrow=mysqli_fetch_array($rre)){
$r = $r + 1;
$s = $rrow['type'];
$p = $rrow['place'];
if($s=="Superior Room" ){
$sc = $sc+ 1;
}
if($s=="Guest House"){
$gh = $gh + 1;
}
if($s=="Single Room" ) {
$sr = $sr + 1;
}
if($s=="Deluxe Room" ) {
$dr = $dr + 1;
}}
?>
<?php
$csql ="select * from payment";
$cre= mysqli_query($con,$csql);
$cr =0 ;
```

```
$csc =0;
$cgh = 0;
$csr = 0;
$cdr = 0;
while($crow=mysqli_fetch_array($cre)) {
$cr = $cr + 1;
$cs = $crow['troom'];
if($cs=="Superior Room" ) {
$csc = $csc + 1;
if($cs=="Guest House" ) {
$cgh = $cgh + 1;
if($cs=="Single Room" ) {
$csr = $csr + 1;
if($cs=="Deluxe Room" ) {
$cdr = $cdr + 1;
}
}
?>
<div class="col-md-4 col-sm-4">
<div class="panel panel-default">
<div class="panel-heading">Available Room Details</div>
<div class="panel-body">
<table width="200px">
<tr><td><b>Superior Room </b></td>
<td><button type="button" class="btn btn-primary btn-circle"><?php
$f1 = $sc - $csc;
if($f1 <=0 ) { $f1 = "NO";
echo $f1;
}
else{
echo $f1;
?> </button></td> </tr>
```

```
<tr><td><b>Guest House</b> </td>
<td><button type="button" class="btn btn-primary btn-circle"><?php
$f2 = $gh -$cgh;
if($f2 <=0 ) { $f2 = "NO";
echo $f2;}
else{
echo $f2;}
?> </button></td> </tr>
<tr><td><b>Single Room </b></td>
<td><button type="button" class="btn btn-primary btn-circle"><?php
$f3 =$sr - $csr;
if($f3 <=0 ) { $f3 = "NO";
echo $f3;}
else{
echo $f3;}
?> </button></td> </tr>
<tr> <td><b>Deluxe Room</b> </td>
<td><button type="button" class="btn btn-primary btn-circle"><?php
$f4 =$dr - $cdr;
if($f4 <=0 ) { $f4 = "NO";
echo $f4;}
else{
echo $f4;}
?> </button></td> </tr>
<tr><td><b>Total Rooms </b></td>
<td><button type="button" class="btn btn-danger btn-circle"><?php
$f5 =$r-$cr;
if($f5 <=0 ) { $f5 = "NO";
echo $f5;}
else{
echo $f5;}
```

```
?> </button></td> </tr>
</table></div>
<div class="panel-footer">
</div></div></div></div>
    <!-- /. ROW -->
</div>
    <!-- /. ROW -->
</div>
    <!-- /. PAGE INNER -->
</div>
    <!-- /. PAGE WRAPPER -->
</div>
    <!-- /. WRAPPER -->
    <!-- JS Scripts-->
    <!-- jQuery Js -->
<script src="assets/js/jquery-1.10.2.js"></script>
    <!-- Bootstrap Js -->
<script src="assets/js/bootstrap.min.js"></script>
    <!-- Metis Menu Js -->
<script src="assets/js/jquery.metisMenu.js"></script>
    <!-- Morris Chart Js -->
<script src="assets/js/morris/raphael-2.1.0.min.js"></script>
<script src="assets/js/morris/morris.js"></script>
    <!-- Custom Js -->
<script src="assets/js/custom-scripts.js"></script>
</body></html>
<?php
if(isset($_POST['co'])) {
$st = $_POST['conf'];
if($st=="Conform"){
$urb = "UPDATE `roombook` SET `stat`='$st' WHERE id = '$id'";

```

```
if($f1=="NO" ) {  
echo "<script type='text/javascript'> alert('Sorry! Not Available Superior Room  
'</script>";}  
else if($f2 == "NO"){  
echo "<script type='text/javascript'> alert('Sorry! Not Available Guest  
House')</script>";}  
else if ($f3 == "NO"){  
echo "<script type='text/javascript'> alert('Sorry! Not Available Single  
Room')</script>";}  
else if($f4=="NO"){  
echo "<script type='text/javascript'> alert('Sorry! Not Available Deluxe  
Room')</script>";}  
else if( mysqli_query($con,$urb)) {  
$type_of_room = 0;  
if($troom=="Superior Room"){  
$type_of_room = 320;}  
else if($troom=="Deluxe Room"){  
$type_of_room = 220;}  
else if($troom=="Guest House"){  
$type_of_room = 180;}  
else if($troom=="Single Room"){  
$type_of_room = 150;}  
if($bed=="Single"){  
$type_of_bed = $type_of_room * 1/100; }  
else if($bed=="Double"){  
$type_of_bed = $type_of_room * 2/100;  
}else if($bed=="Triple"){  
$type_of_bed = $type_of_room * 3/100;  
}  
else if($bed=="Quad"){  
$type_of_bed = $type_of_room * 4/100;}  
else if($bed=="None"){
```

```
$type_of_bed = $type_of_room * 0/100; }

if($meal=="Room only"){
$type_of_meal=$type_of_bed * 0;
else if($meal=="Breakfast"){
$type_of_meal=$type_of_bed * 2;
}else if($meal=="Half Board"){
$type_of_meal=$type_of_bed * 3;
}else if($meal=="Full Board"){
$type_of_meal=$type_of_bed * 4;
}

$ttot = $type_of_room * $days * $nroom;
$mepr = $type_of_meal * $days;
$btotal = $type_of_bed * $days;
$fintot = $ttot + $mepr + $btotal;

//echo "<script type='text/javascript'> alert('Count Date')</script>";

$sql = "INSERT INTO `payment`(`id`, `title`, `fname`, `lname`, `troom`, `bed`, `nroom`, `cin`, `cout`, `ttot`, `meal`, `mepr`, `btotal`, `fintot`, `noofdays`) VALUES ('$id','$title','$fname','$lname','$troom','$bed','$nroom','$cin','$cout','$ttot','$meal','$mepr','$btotal','$fintot','$days')";

if(mysqli_query($con,$sql)) { $notfree="NotFree";
$query = "UPDATE `room` SET `place`='$notfree',`cusid`='$id' where bedding ='$bed' and type='$troom' ";
if(mysqli_query($con,$query)) {
echo "<script type='text/javascript'> alert('Booking Conform')</script>";
echo "<script type='text/javascript'> window.location='roombook.php'</script>";
}
}
}

?>
```

### 3.9 SYSTEM TESTING

System testing for a hotel management system DBMS mini project involves validating functions like room booking, check-in/out, and reservation handling. It ensures data integrity, security measures, and seamless integration with external systems. Performance testing assesses system responsiveness and scalability. Regression testing verifies existing features after updates. User acceptance testing involves stakeholders to ensure the system meets business requirements before deployment.

#### System output table

TEST CASE - ID	TEST CASE NAME	TEST CASE DESCRIPTION	INPUT	EXPECTED RESULTS	ACTUAL RESULTS	RESULTS
01	Admin Login	Validate Admin ID and Password	Enter valid Admin ID	Admin Login should be successful	Admin login successful	PASS
02	Admin Login	Validate Admin ID and Password	Enter Invalid Admin ID and Password	Invalid username/password Error message should display	Invalid username/password message is displayed	FAIL
03	Admin Login	Validate Admin Id	If any fields are left blank	Fields are empty Error message should be display	Fields are empty Error message is display	FAIL
04	User Login	Validate User name	Enter valid signed up user name	User should be valid	User logged in	PASS
05	User Login	Invalid username	Enter valid user name	User not present	Invalid Username	FAIL

## CHAPTER 4

### SCREENSHOTS

#### 4.1 Results

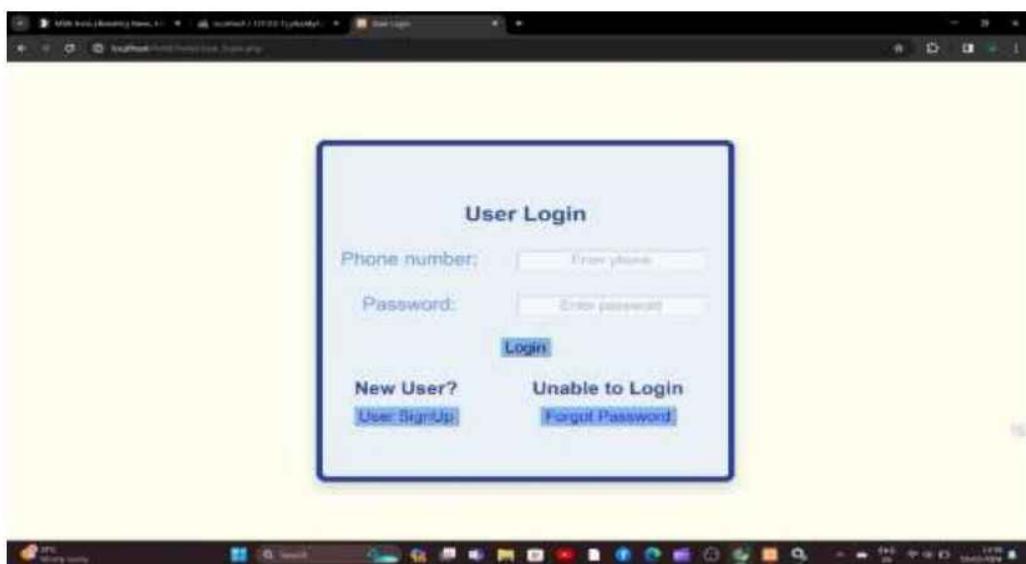
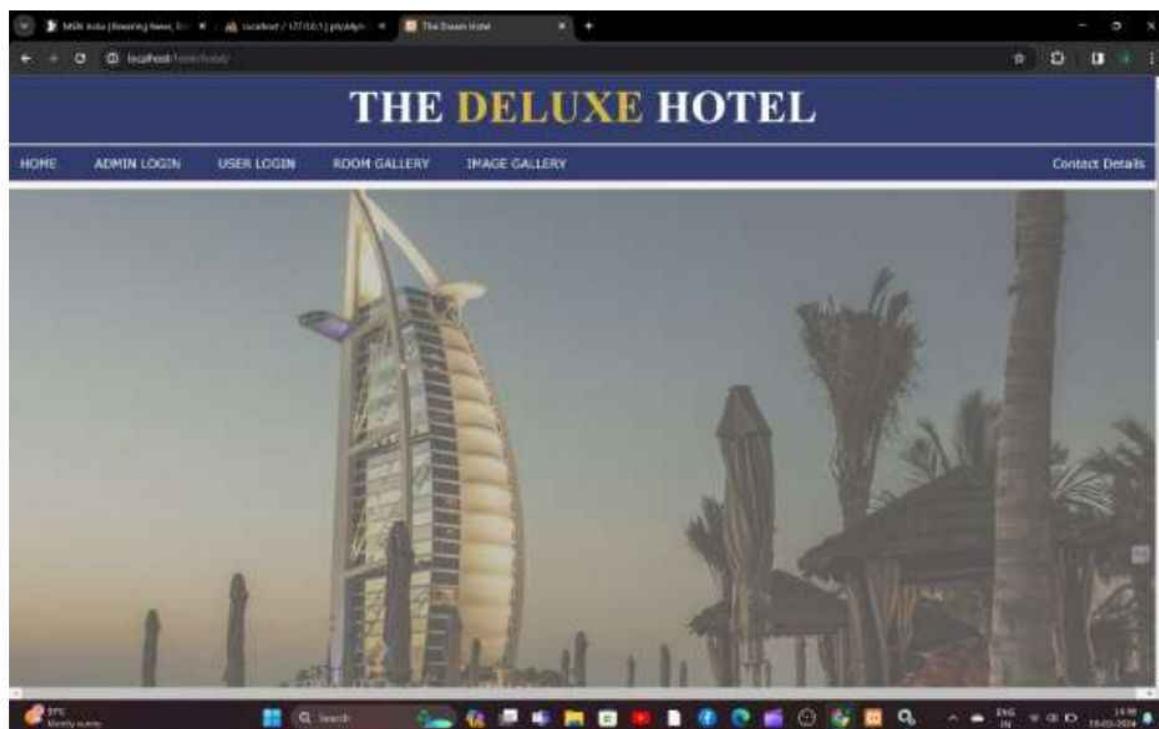


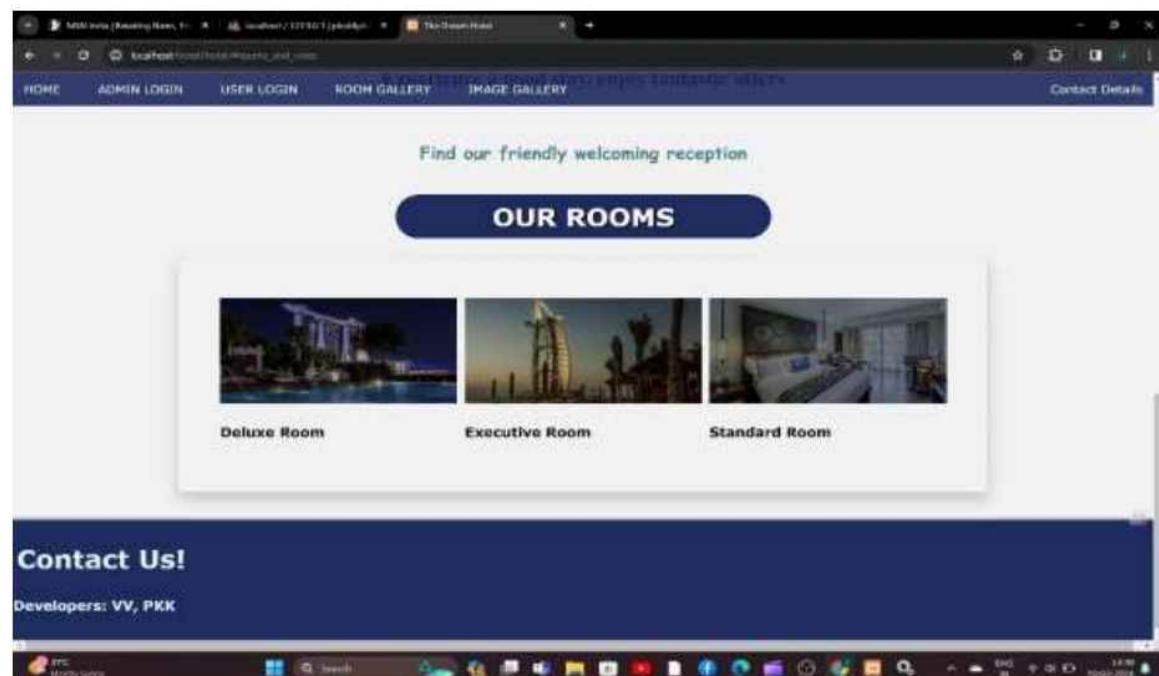
Fig 4.1 User login



Fig 4.2 Admin login



**Fig 4.3 Home Window of Hotel Management System**



**Fig 4.4 Various types of rooms window  
And contact us**

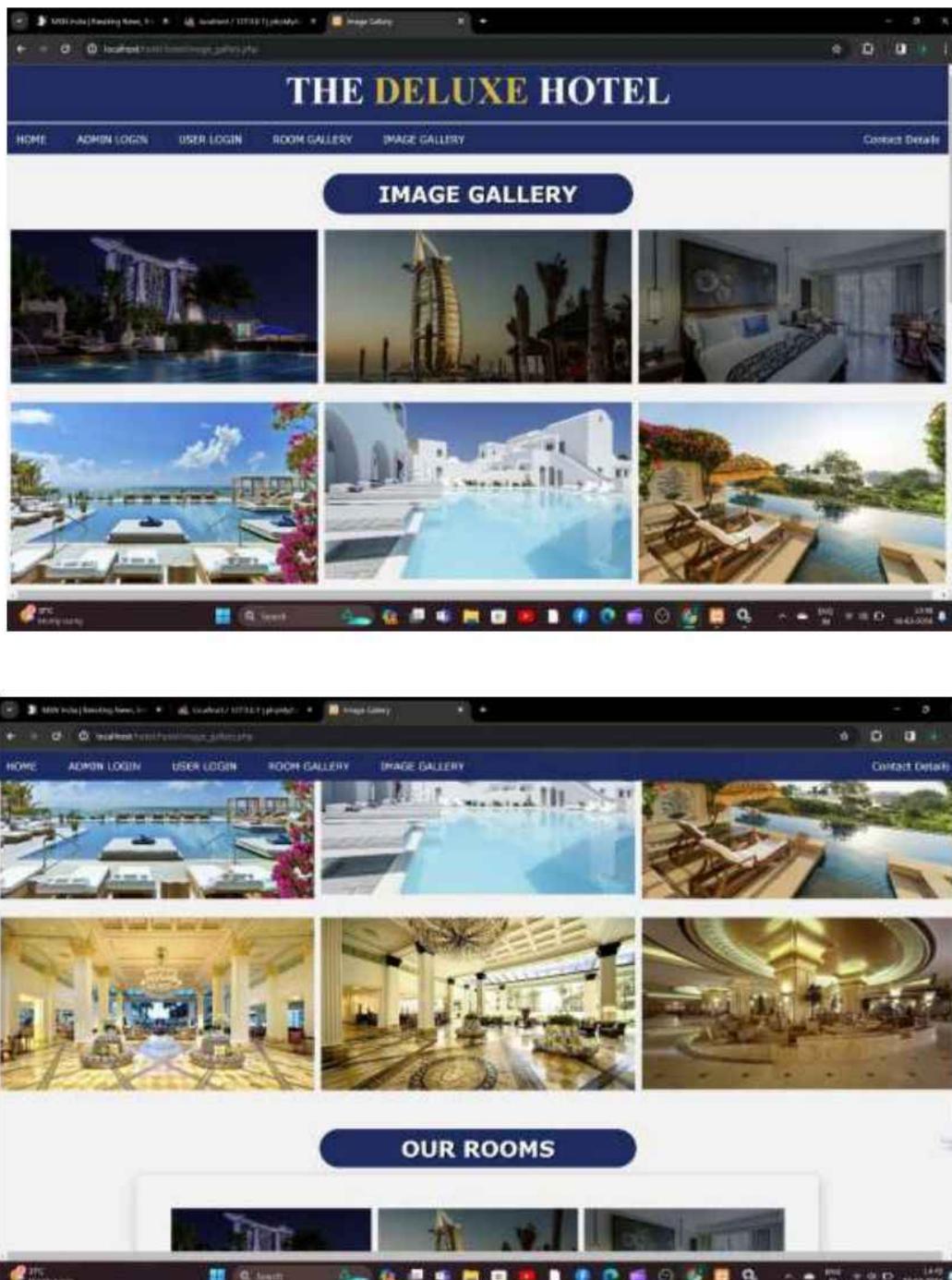


Fig 4.5 Image gallery window

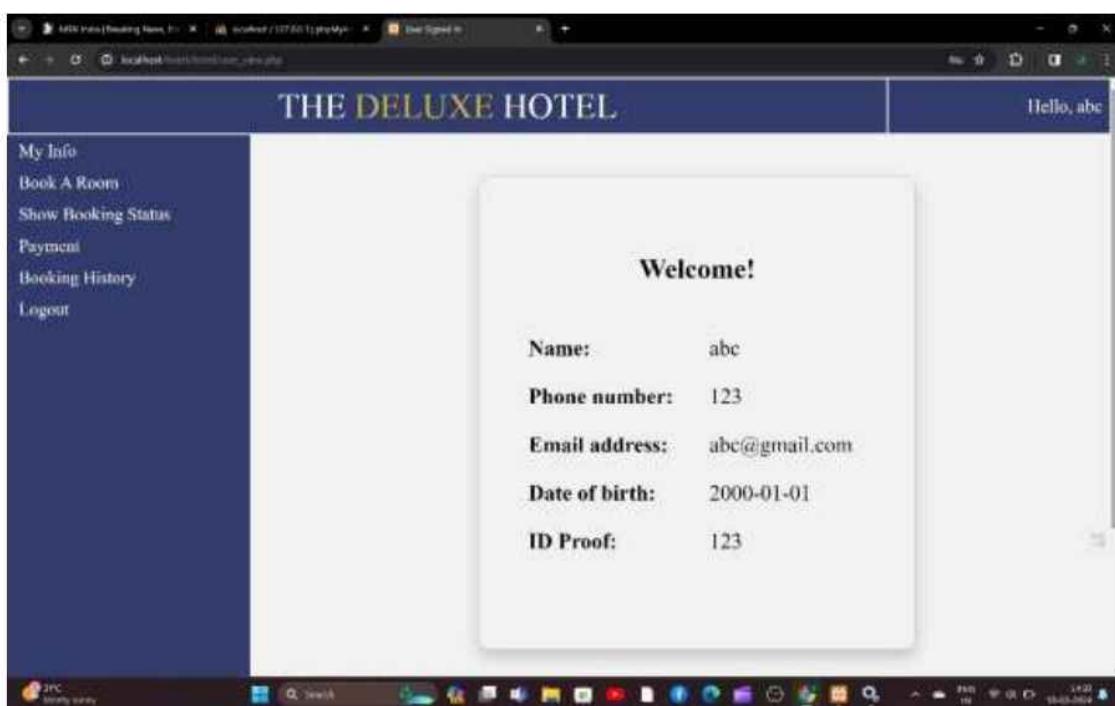
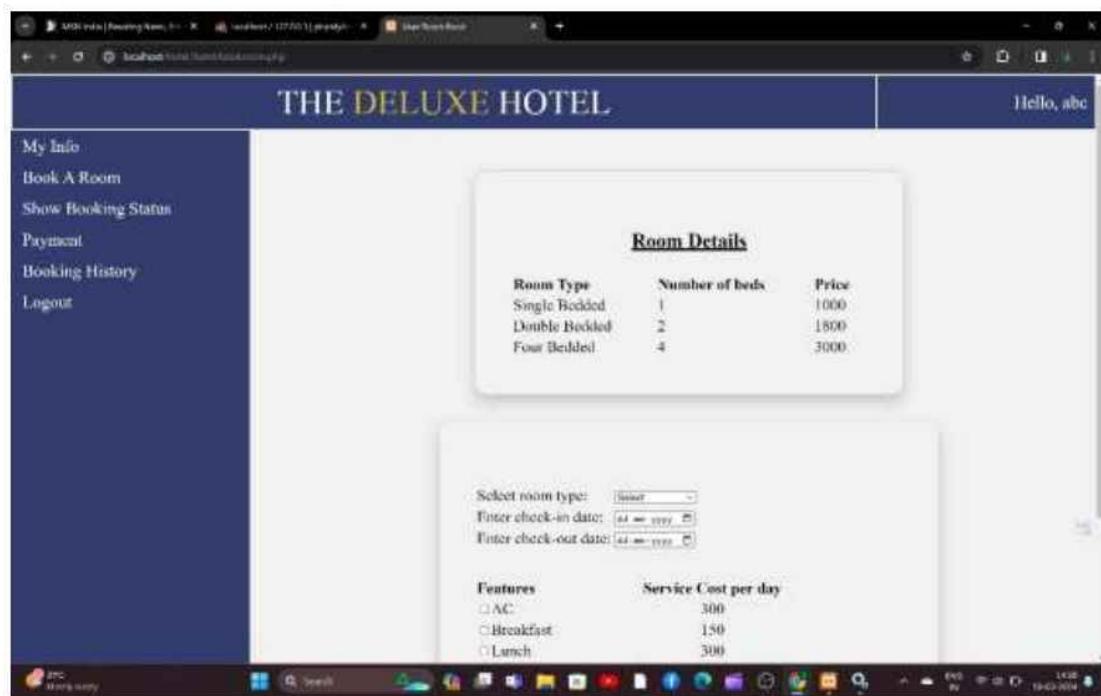
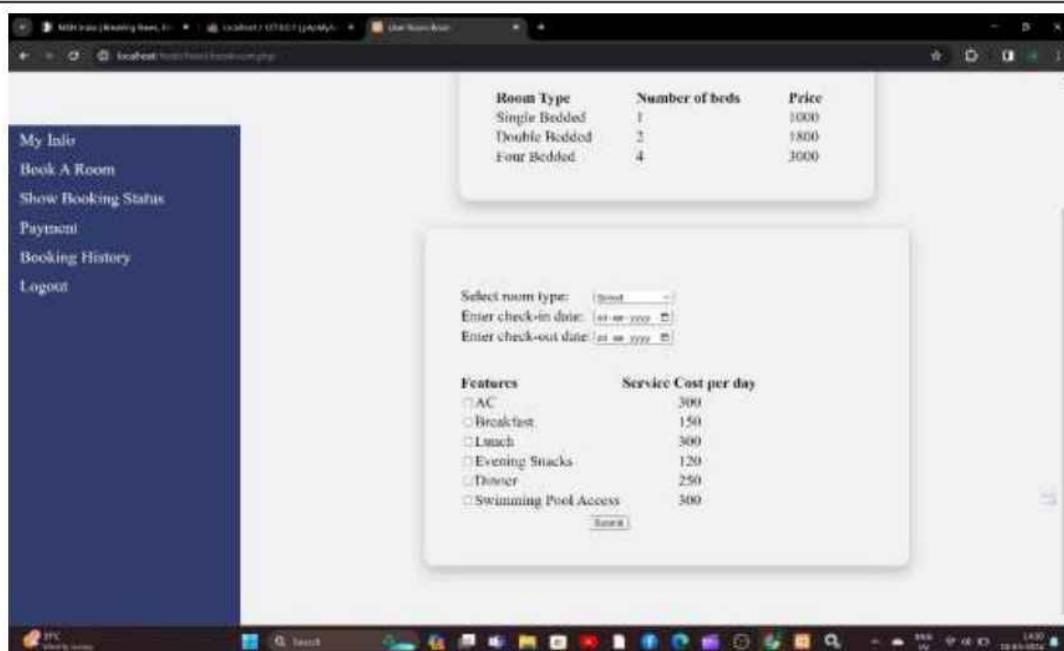
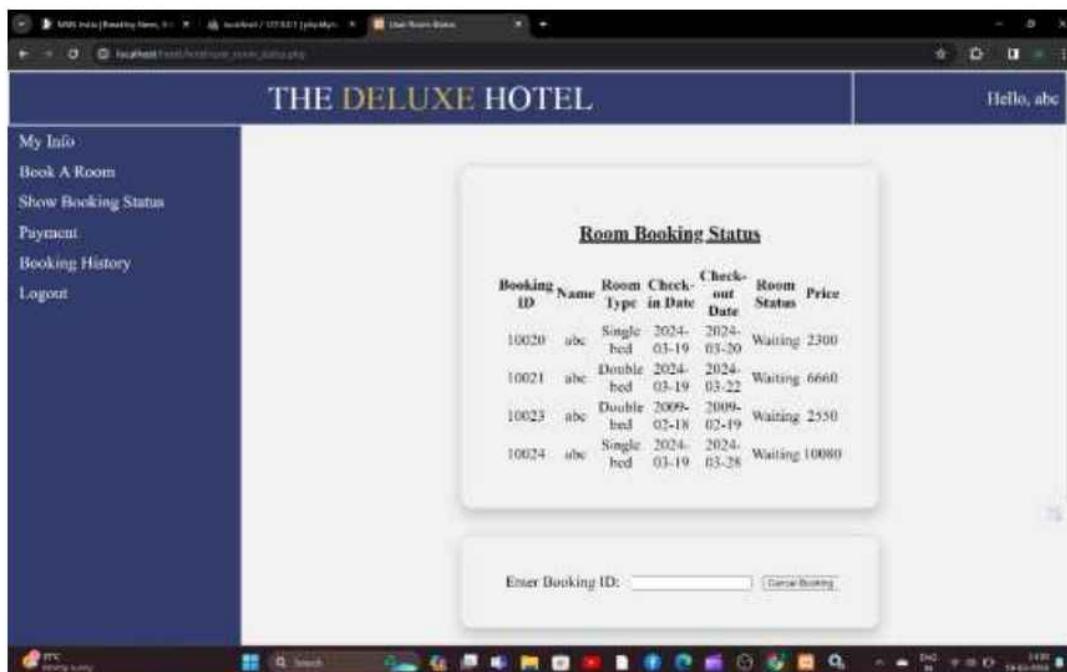
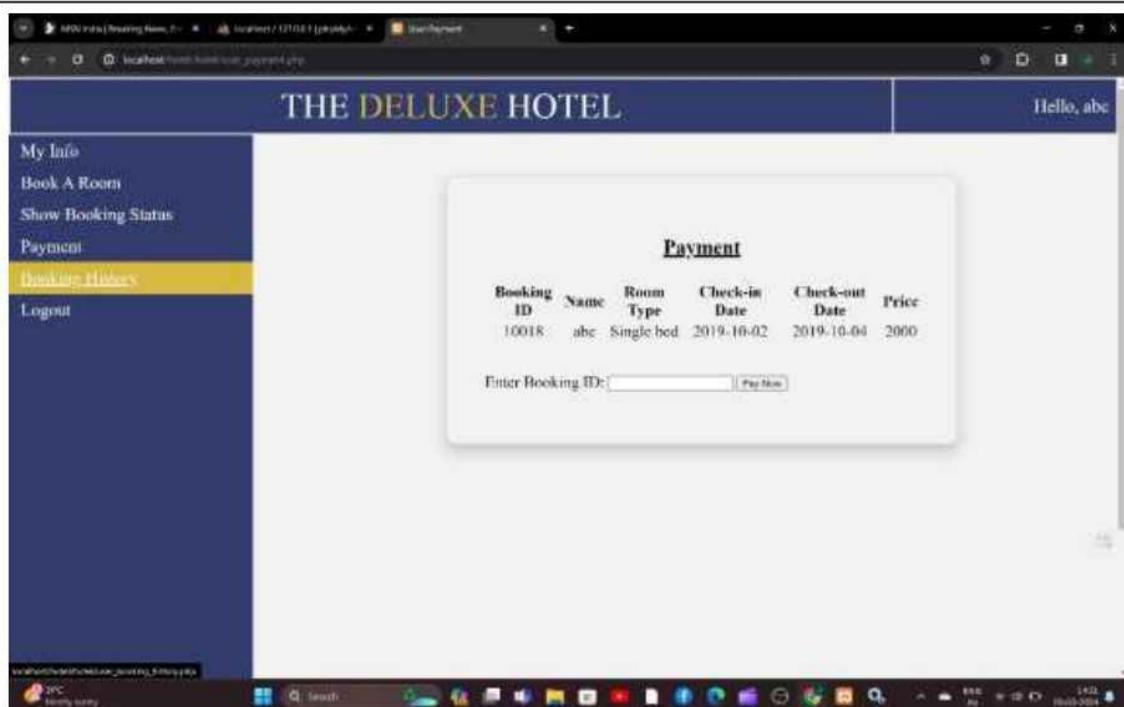


Fig 4.6 User window



**Fig 4.7 Room Booking Window****Fig 4.8 Booking Status Window**

**Fig 4.9 Payment Window****Fig 4.10 Booking History Window**

## CHAPTER 5

### Conclusion and Future Enhancement

#### 5.1 Conclusion

In conclusion, the implementation of a hotel management system within a database management system (DBMS) serves as an efficient solution for streamlining operations, enhancing customer satisfaction, and optimizing resource allocation within the hospitality industry. Through effective utilization of data storage, retrieval, and manipulation capabilities provided by the DBMS, the hotel can manage reservations, room allocations, guest information, billing, and staff scheduling with ease. This system facilitates seamless communication between different departments, enables real-time updates, and empowers decision-makers with comprehensive insights derived from data analysis, ultimately leading to improved operational efficiency and heightened guest experience.

#### 5.2 Future Enhancement

1. **Integration of IoT Devices:** Incorporating Internet of Things (IoT) devices such as smart thermostats, occupancy sensors, and energy management systems can enhance efficiency by automating tasks like room temperature control, energy usage optimization, and monitoring of room occupancy in real-time.
2. **Implementing Predictive Analytics:** Leveraging predictive analytics algorithms can help forecast room demand, pricing trends, and guest preferences, enabling the hotel to proactively adjust room rates, inventory levels, and service offerings to meet anticipated demands and maximize revenue.
3. **Enhanced Guest Experience with Mobile Apps:** Developing a dedicated mobile application for guests can provide features such as mobile check-in/check-out.

### 5.3 References

1. SlideShare--<https://www.slideshare.net/KaranamManideep1/hotel-management-dbmsdocx>
2. Scribd--<https://www.scribd.com/doc/26299255/A-Project-Report-on-Hotel-Management-System>
3. Studocu—<https://www.studocu.com/in/document/acharya-nagarjuna-university/mca-ii-sem/hotel-management-system-project-documentation/41909511>
4. Academic.edu--  
[https://www.academia.edu/2112330/A\\_SAMPLE\\_HOTEL\\_MANAGEMENT\\_SYSTEM\\_PROJECT\\_DOCUMENTATION](https://www.academia.edu/2112330/A_SAMPLE_HOTEL_MANAGEMENT_SYSTEM_PROJECT_DOCUMENTATION)
5. Github-- <https://github.com/topics/hotel-management-system>