**PART-B**

**1. PHP program to implement student registration form using Labels, Text Boxes, Text Area, Checkbox, Radio Buttons, Select and Submit button. (First Name, Last Name, Address, E-Mail, Mobile, City, State, Gender, Hobbies, Blood Group). Display user inserted value in a new PHP page in a neat format.**

**=**

**Index.php**

<!DOCTYPE html>

<html>

    <head>

        <title>Student Registration Form</title>

    </head>

    <body>

        <h2>Student Registration Form</h2>

        <form action="Display.php" method="post">

            <label for="fname">First Name:</label><br>

            <input type="text" id="fname" name="fname"><br>

            <label for="lname">Last Name:</label><br>

            <input type="text" id="lname" name="lname"><br>

            <label for="address">Address:</label><br>

            <textarea id="address" name="address"></textarea><br>

            <label for="email">E-Mail:</label><br>

            <input type="text" id="email" name="email"><br>

            <label for="mobile">Mobile:</label><br>

            <input type="text" id="mobile" name="mobile"><br>

            <label for="city">City:</label><br>

            <input type="text" id="city" name="city"><br>

            <label for="state">State:</label><br>

            <input type="text" id="state" name="state"><br>

            <label for="gender">Gender:</label>

            <label for="male">Male</label>

            <input type="radio" id="male" name="gender" value="male">

            <label for="female">Female</label>

            <input type="radio" id="female" name="gender" value="female"><br>

            <label for="hobbies">Hobbies:</label><br>

            <input type="checkbox" id="hobby1" name="hobbies[]" value="reading">

            <label for="hobby1">Reading:</label><br>

            <input type="checkbox" id="hobby2" name="hobbies[]" value="sports">

            <label for="hobby2">Sports:</label><br>

            <input type="checkbox" id="hobby3" name="hobbies[]" value="music">

            <label for="hobby3">Music:</label><br>

            <label for="blood\_group">Blood\_Group:</label><br>

            <select id="blood\_group" name="blood\_group">

                <option value="A+">A+</option>

                <option value="A-">A-</option>

                <option value="B+">B+</option>

                <option value="B-">B-</option>

                <option value="AB+">AB+</option>

                <option value="AB-">AB-</option>

                <option value="O+">O+</option>

                <option value="O-">O-</option>

            </select><br><br>

            <input type="submit" value="Submit">

        </from>

    </body>

</html>

**Display.php**

<!DOCTYPE html>

<html>

    <head>

        <title>Display User Data</title>

    </head>

    <body>

        <h2>User Data</h2>

        <?php

        if($\_SERVER["REQUEST\_METHOD"]=="POST"){

            $fname=$\_POST['fname'];

            $lname=$\_POST['lname'];

            $address=$\_POST['address'];

            $email=$\_POST['email'];

            $mobile=$\_POST['mobile'];

            $city=$\_POST['city'];

            $state=$\_POST['state'];

            $gender=$\_POST['gender'];

            $hobbies=isset($\_POST['hobbies'])?implode(",",$\_POST['hobbies']):"";

            $blood\_group=$\_POST['blood\_group'];

            echo"<p><strong>First Name:</strong>$fname</p>";

            echo"<p><strong>Last Name:</strong>$lname</p>";

            echo"<p><strong>Address:</strong>$address</p>";

            echo"<p><strong>E-Mail:</strong>$email</p>";

            echo"<p><strong>Mobile:</strong>$mobile</p>";

            echo"<p><strong>City:</strong>$city</p>";

            echo"<p><strong>State:</strong>$state</p>";

            echo"<p><strong>Gender:</strong>$gender</p>";

            echo"<p><strong>Hobbies:</strong>$hobbies</p>";

            echo"<p><strong>Blood Group:</strong>$blood\_group</p>";

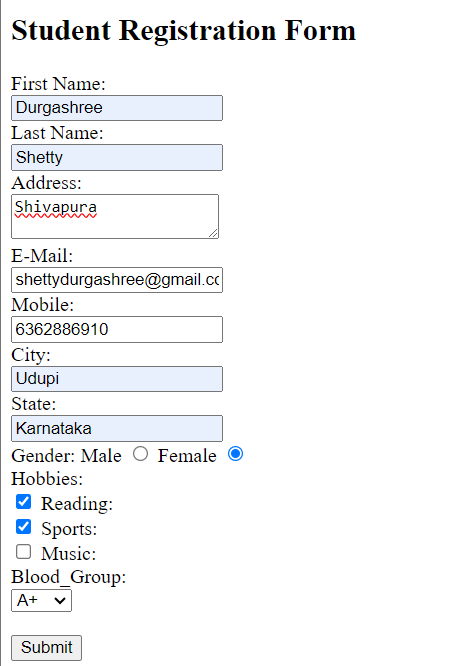
        }

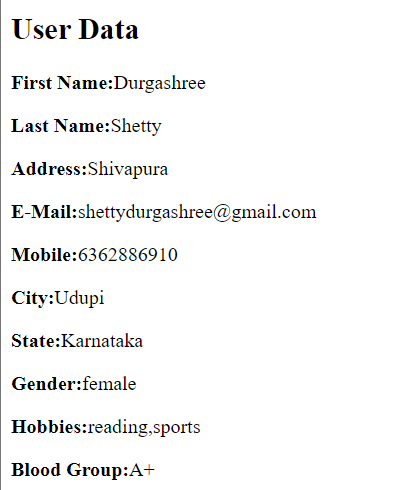
        ?>

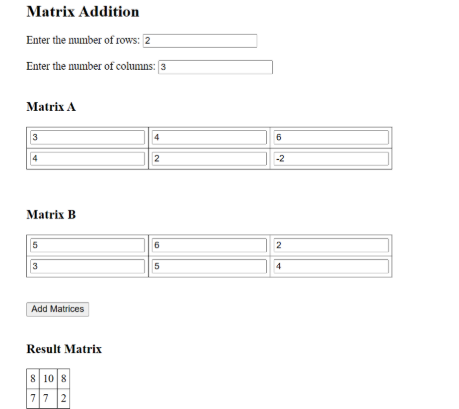
    </body>

</html>

**OUTPUT:**

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**2. Develop a PHP program that facilitates the addition, multiplication of two matrices. Utilize HTML for the user interface and PHP for the backend logic. Dynamically generate the required number of textboxes based on the specified number of rows and columns. Implement three distinct buttons to perform each matrix operation For instance, consider the addition of two matrices as an example.=  
**

**=**

**Index.php**

<?php

session\_start();

?>

<!DOCTYPE html>

<html>

<head>

    <meta charset="UTF-8">

    <title>Matrix Operations</title>

</head>

<body>

    <form method="post">

        Enter the number of rows: <input type="number" name="rows" value="<?= $\_SESSION['rows'] ?? 0 ?>"><br><br>

        Enter the number of columns: <input type="number" name="cols" value="<?= $\_SESSION['cols'] ?? 0 ?>"><br><br>

        <input type="submit" name="create" value="Create Matrices">

    </form>

    <?php

    if (isset($\_POST['create'])) {

        $\_SESSION['rows'] = $\_POST['rows'];

        $\_SESSION['cols'] = $\_POST['cols'];

        $rows = $\_SESSION['rows'];

        $cols = $\_SESSION['cols'];

        echo '<form method="post">';

        echo '<h3>Matrix A</h3>';

        createMatrixInput('a', $rows, $cols);

        echo '<h3>Matrix B</h3>';

        createMatrixInput('b', $rows, $cols);

        echo '<input type="submit" name="add" value="Add Matrices">';

        echo '<input type="submit" name="multiply" value="Multiply Matrices">';

        echo '</form>';

    }

    if (isset($\_POST['add']) || isset($\_POST['multiply'])) {

        $rows = $\_SESSION['rows'];

        $cols = $\_SESSION['cols'];

        $matrixA = getMatrix('a', $rows, $cols);

        $matrixB = getMatrix('b', $rows, $cols);

        if (isset($\_POST['add'])) {

            $result = addMatrices($matrixA, $matrixB, $rows, $cols);

            echo '<h3>Result of Addition</h3>';

        } elseif (isset($\_POST['multiply'])) {

            $result = multiplyMatrices($matrixA, $matrixB, $rows, $cols);

            echo '<h3>Result of Multiplication</h3>';

        }

        displayMatrix($result, $rows, $cols);

        echo '<br><a href="index.php">Go Back</a>';

    }

    function createMatrixInput($name, $rows, $cols) {

        for ($i = 0; $i < $rows; $i++) {

            for ($j = 0; $j < $cols; $j++) {

                echo '<input type="number" name="' . $name . '[]" required>';

            }

            echo '<br>';

        }

    }

    function getMatrix($name, $rows, $cols) {

        $matrix = [];

        $values = $\_POST[$name];

        $index = 0;

        for ($i = 0; $i < $rows; $i++) {

            for ($j = 0; $j < $cols; $j++) {

                $matrix[$i][$j] = $values[$index++];

            }

        }

        return $matrix;

    }

    function addMatrices($matrixA, $matrixB, $rows, $cols) {

        $result = [];

        for ($i = 0; $i < $rows; $i++) {

            for ($j = 0; $j < $cols; $j++) {

                $result[$i][$j] = $matrixA[$i][$j] + $matrixB[$i][$j];

            }

        }

        return $result;

    }

    function multiplyMatrices($matrixA, $matrixB, $rows, $cols) {

        $result = [];

        for ($i = 0; $i < $rows; $i++) {

            for ($j = 0; $j < $cols; $j++) {

                $result[$i][$j] = 0;

                for ($k = 0; $k < $cols; $k++) {

                    $result[$i][$j] += $matrixA[$i][$k] \* $matrixB[$k][$j];

                }

            }

        }

        return $result;

    }

    function displayMatrix($matrix, $rows, $cols) {

        echo '<table border="1">';

        for ($i = 0; $i < $rows; $i++) {

            echo '<tr>';

            for ($j = 0; $j < $cols; $j++) {

                echo '<td>' . $matrix[$i][$j] . '</td>';

            }

            echo '</tr>';

        }

        echo '</table>';

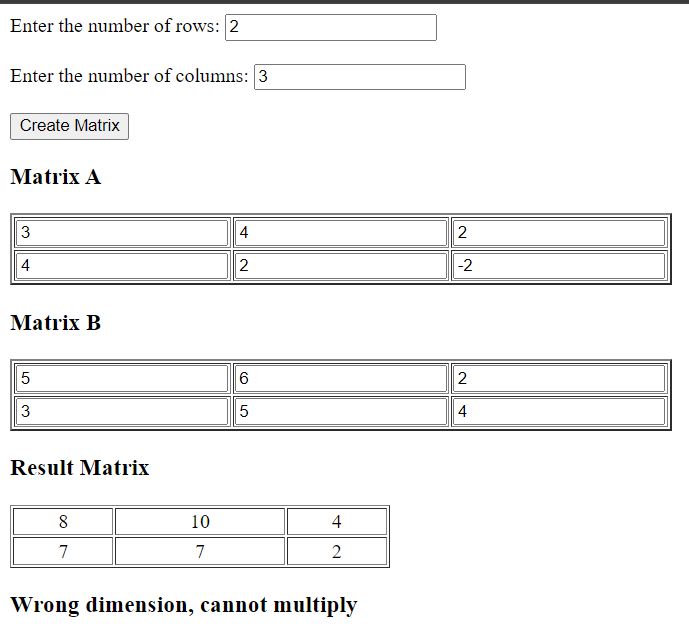
    }

    ?>

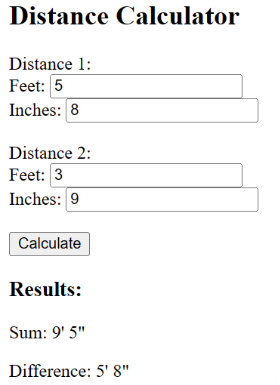
</body>

</html>

**OUTPUT:**

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**3. Write a PHP program that implements a class to add and find the difference of two distance values given in feet and inches. The user inputs are collected through an HTML form.**

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**=**

**Index.php**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Distance Calculator</title>

</head>

<body>

    <h2>Distance Calculator</h2>

    <form action="" method="post">

        <label for="feet1">Feet 1:</label>

        <input type="number" id="feet1" name="feet1" required>

        <label for="inches1">Inches 1:</label>

        <input type="number" id="inches1" name="inches1" required><br><br>

        <label for="feet2">Feet 2:</label>

        <input type="number" id="feet2" name="feet2" required>

        <label for="inches2">Inches 2:</label>

        <input type="number" id="inches2" name="inches2" required><br><br>

        <input type="submit" value="Calculate"><br><br>

    </form>

<?php

class DistanceCalculator {

    public function addDistance($feet1, $inches1, $feet2, $inches2) {

        $totalFeet = $feet1 + $feet2 + floor(($inches1 + $inches2) / 12);

        $totalInches = ($inches1 + $inches2) % 12;

        return [$totalFeet, $totalInches];

    }

    public function findDifference($feet1, $inches1, $feet2, $inches2) {

        $total1 = $feet1 + $inches1 / 12;

        $total2 = $feet2 + $inches2 / 12;

        $difference = abs($total1 - $total2);

        return [floor($difference), ($difference - floor($difference)) \* 12];

    }

}

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

    $feet1 = $\_POST["feet1"];

    $inches1 = $\_POST["inches1"];

    $feet2 = $\_POST["feet2"];

    $inches2 = $\_POST["inches2"];

    $calculator = new DistanceCalculator();

    [$sumFeet, $sumInches] = $calculator->addDistance($feet1, $inches1, $feet2, $inches2);

    echo "Sum: $sumFeet feet $sumInches inches<br>";

    [$diffFeet, $diffInches] = $calculator->findDifference($feet1, $inches1, $feet2, $inches2);

    echo "Difference: $diffFeet feet $diffInches inches";

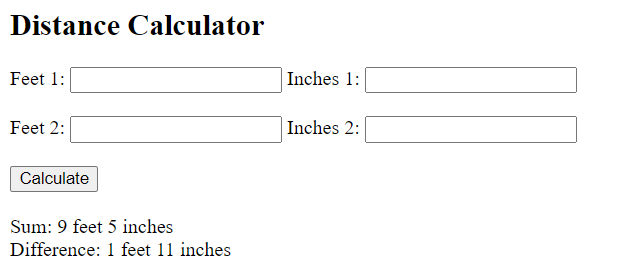
}

?>

</body>

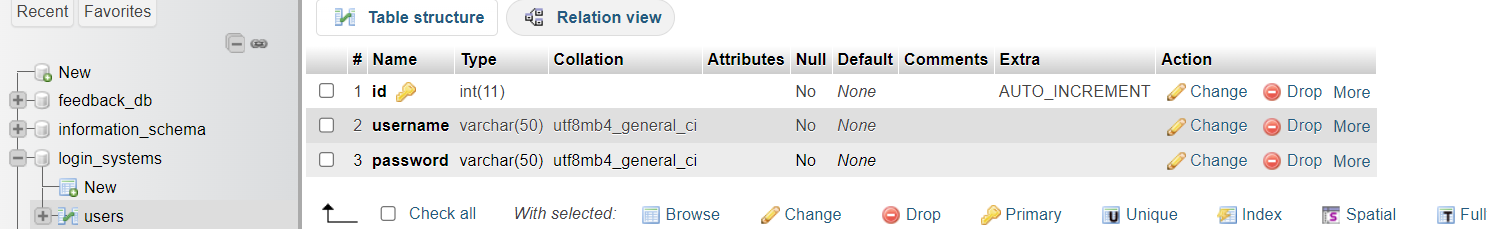
</html>

**OUTPUT:**

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**4. Program to implement a login form where users enter their username and password. Validate the credentials against data stored in a MySQL database and grant access if they are correct.**

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**Index.php**

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "login\_systems";

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

if($conn -> connect\_error){

die("Connection Failed : ".$conn -> connect\_error);

}

function validateUser($username,$password,$conn){

$query = "SELECT \* FROM users WHERE username ='$username' AND password =

'$password'";

$result = $conn -> query($query);

if($result -> num\_rows > 0){

return true;

}else{

return false;

}

}

if($\_SERVER["REQUEST\_METHOD"]=="POST"){

$username = $\_POST["username"];

$password = $\_POST["password"];

if (validateUser($username,$password,$conn)){

echo "<script>alert('you have logged in succesfully');</script>";

}else{

echo "<script>alert('invalid credentials you have

entered');</script>";

}

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Login</title>

</head>

<body>

<h2>Login Form</h2>

<form method ="post" action ="<?php echo

htmlspecialchars($\_SERVER["PHP\_SELF"]);?>">

Username : <input type = "text" name = "username"><br><br>

Password : <input type = "password" name = "password"><br><br>

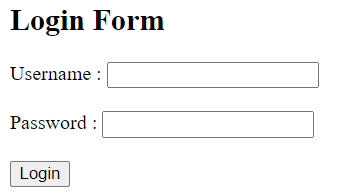
<input type ="submit" value ="Login">

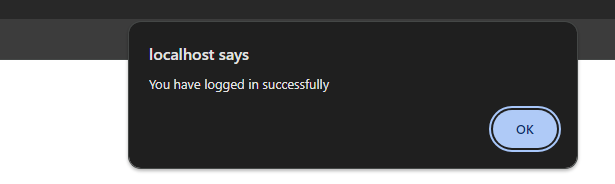
</form>

</body>

</html>

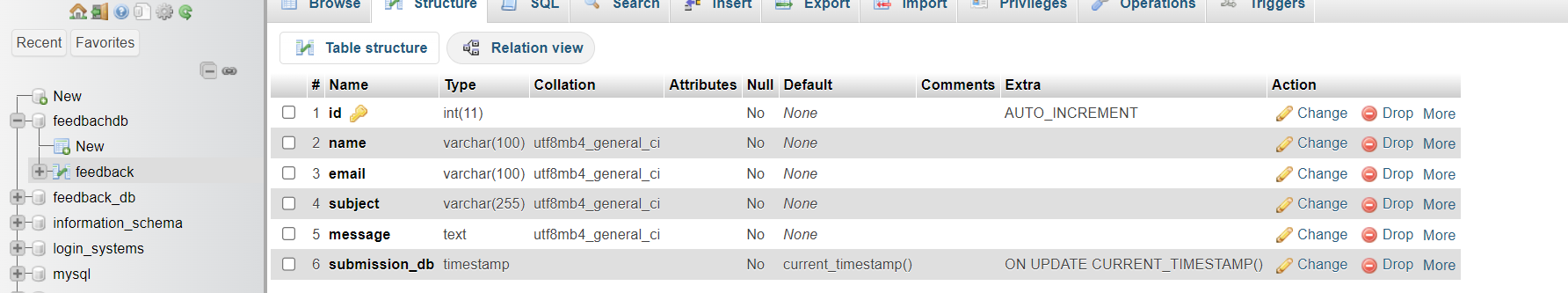
**OUTPUT:**

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**5. Program to create a feedback form with fields for name, email, subject, and message. Store the submitted feedback data in a MySQL database for later review.**

**=**

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**Index.php**

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "feedbachdb";

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

if(isset($\_POST['submit'])){

    $name = $\_POST['name'];

    $email = $\_POST['email'];

    $subject = $\_POST['subject'];

    $message = $\_POST['message'];

    $sql = "INSERT INTO feedback (name, email,subject,message)VALUES('$name','$email','$subject','$message')";

    $result = mysqli\_query($conn, $sql);

    if($result == true){

        echo "<script> alert('Feedback Submitted Sucessfully');</script>";

    }else{

        echo "<script> alert('Failed');</script>";

    }

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Feedback Form</title>

</head>

<body>

    <h2>Feedback Form</h2>

    <form action="" method="post">

        <label for ="name">Name:</label><br>

        <input type="text" id="name" name="name" required><br>

        <label for ="email">Email:</label><br>

        <input type="email" id="email" name="email" required><br>

        <label for ="subject">Subject:</label><br>

        <input type="text" id="subject" name="subject" required><br>

        <label for ="message">Message:</label><br>

        <textarea id="message" name="message" required></textarea><br>

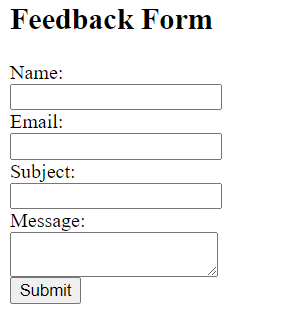
        <input type="submit"  name="submit" value="Submit"><br>

</form>

</body>

</html>

**OUTPUT :**

****

**6. Develop a dynamic PHP application to efficiently manage and store customer information, encompassing key fields like Customer Number, Customer Name, Item Purchased, and Mobile Number in Database. This application should provide a userfriendly interface with strategically placed buttons to trigger specific functionalities. These functionalities include:**

**1. Add Customer Information: Clicking this button should dynamically reveal a form for entering new customer details. Include proper validation checks for mobile numbers (10 digits), and also for Customer id ensuring accuracy in data input.**

**2. Delete Customer Records: Triggering this button should prompt the appearance of a form, specifically requesting the Customer ID to identify and delete the corresponding customer record. And provide appropriate messages for incorrect inputs.**

**3. Search for Particular Entries: This function should unveil a search form when activated, allowing users to input Customer id to find specific customer records.**

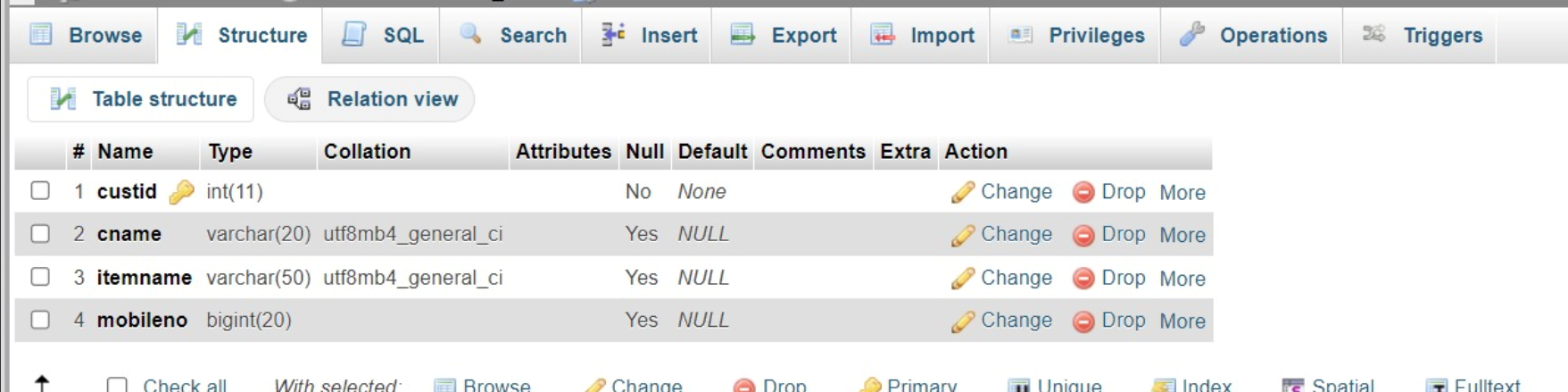
**4. Sort Database Based on Customer Id: Clicking this button should facilitate the sorting of the entire database based on customer id.**

**5. Display Complete Set of Records: Activating this function should present a comprehensive display of all customer records.**

**6. Interface Design: Initially, the interface should only showcase functional buttons. Upon clicking a button, the respective form should dynamically appear, offering a tailored and focused user experience.**

**7. Give proper messages after every transaction.**

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**Index.php**

<!DOCTYPE html>

<html>

<head>

    <title>Customer Management System</title>

</head>

<body>

<h2>Customer Management System</h2>

<button onclick="showForm('addForm')">Add Customer</button>

<button onclick="showForm('deleteForm')">Delete Customer</button>

<button onclick="showForm('searchForm')">Search Customer</button>

<form method="post">

    <input type="submit" name="sort" value="Sort and Display">

    <input type="submit" name="display" value="Display All">

</form>

<div id="addForm" style="display: none;">

    <h3>Add Customer</h3>

    <form method="post">

        <label>Customer ID:</label>

        <input type="text" name="custid" required><br>

        <label>Name:</label>

        <input type="text" name="cname" required><br>

        <label>Item Purchased:</label>

        <input type="text" name="itemname" required><br>

        <label>Mobile Number:</label>

        <input type="text" name="mobileno" required><br>

        <input type="submit" name="add" value="Add">

    </form>

</div>

<div id="deleteForm" style="display: none;">

    <h3>Delete Customer</h3>

    <form method="post">

        <label>Customer ID:</label>

        <input type="text" name="custid" required><br>

        <input type="submit" name="delete" value="Delete">

    </form>

</div>

<div id="searchForm" style="display: none;">

    <h3>Search Customer</h3>

    <form method="post">

        <label>Customer ID:</label>

        <input type="text" name="custid" required><br>

        <input type="submit" name="search" value="Search">

    </form>

</div>

<script>

    function showForm(formId) {

        var forms = document.getElementsByTagName('div');

        for (var i = 0; i < forms.length; i++) {

            forms[i].style.display = 'none';

        }

        document.getElementById(formId).style.display = 'block';

    }

</script>

</body>

</html>

<?php

$conn = new mysqli("localhost", "root", "", "customer\_info");

if (isset($\_POST['add'])) {

    $custid = $\_POST['custid'];

    $cname = $\_POST['cname'];

    $itemname = $\_POST['itemname'];

    $mobileno = $\_POST['mobileno'];

    if (strlen($mobileno) != 10 || !ctype\_digit($mobileno)) {

        echo "Invalid mobile number";

    } else {

        $sql = "INSERT INTO customer VALUES ('$custid', '$cname', '$itemname', '$mobileno')";

        if ($conn->query($sql) === TRUE) {

            echo "Customer added successfully";

        } else {

            echo "Error adding customer: " . $conn->error;

        }

    }

} elseif (isset($\_POST['delete'])) {

    $custid = $\_POST['custid'];

    $sql = "DELETE FROM customer WHERE custid='$custid'";

    if ($conn->query($sql) === TRUE) {

        echo "Customer deleted successfully";

    } else {

        echo "Error deleting customer: " . $conn->error;

    }

} elseif (isset($\_POST['search'])) {

    $custid = $\_POST['custid'];

    $sql = "SELECT \* FROM customer WHERE custid='$custid'";

    $result = $conn->query($sql);

    if ($result->num\_rows > 0) {

        echo "<table>";

        echo "<tr><th>Customer ID</th><th>Name</th><th>Item</th><th>Mobile</th></tr>";

        while ($row = $result->fetch\_assoc()) {

            echo "<tr>";

            echo "<td>" . $row['custid'] . "</td>";

            echo "<td>" . $row['cname'] . "</td>";

            echo "<td>" . $row['itemname'] . "</td>";

            echo "<td>" . $row['mobileno'] . "</td>";

            echo "</tr>";

        }

        echo "</table>";

    } else {

        echo "No results found";

    }

} elseif (isset($\_POST['sort'])) {

    $sql = "SELECT \* FROM customer ORDER BY cname";

    $result = $conn->query($sql);

    if ($result->num\_rows > 0) {

        echo "<table>";

        echo "<tr><th>Customer ID</th><th>Name</th><th>Item</th><th>Mobile</th></tr>";

        while ($row = $result->fetch\_assoc()) {

            echo "<tr>";

            echo "<td>" . $row['custid'] . "</td>";

            echo "<td>" . $row['cname'] . "</td>";

            echo "<td>" . $row['itemname'] . "</td>";

            echo "<td>" . $row['mobileno'] . "</td>";

            echo "</tr>";

        }

        echo "</table>";

    } else {

        echo "No results found";

    }

} elseif (isset($\_POST['display'])) {

    $sql = "SELECT \* FROM customer";

    $result = $conn->query($sql);

    if ($result->num\_rows > 0) {

        echo "<table>";

        echo "<tr><th>Customer ID</th><th>Name</th><th>Item</th><th>Mobile</th></tr>";

        while ($row = $result->fetch\_assoc()) {

            echo "<tr>";

            echo "<td>" . $row['custid'] . "</td>";

            echo "<td>" . $row['cname'] . "</td>";

            echo "<td>" . $row['itemname'] . "</td>";

            echo "<td>" . $row['mobileno'] . "</td>";

            echo "</tr>";

        }

        echo "</table>";

    } else {

        echo "No results found";

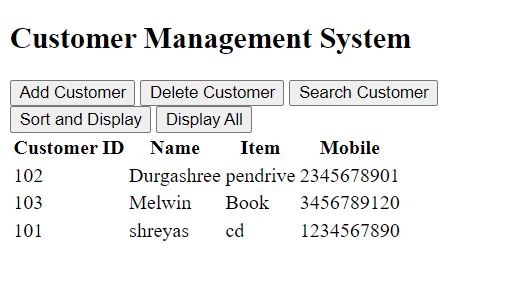
    }

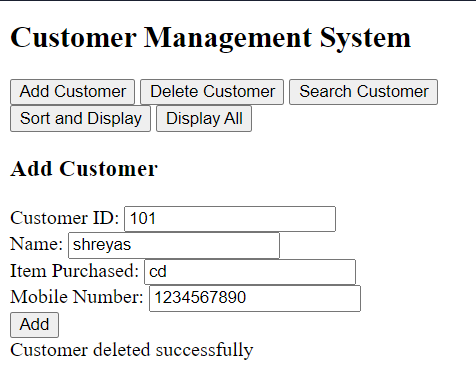
}

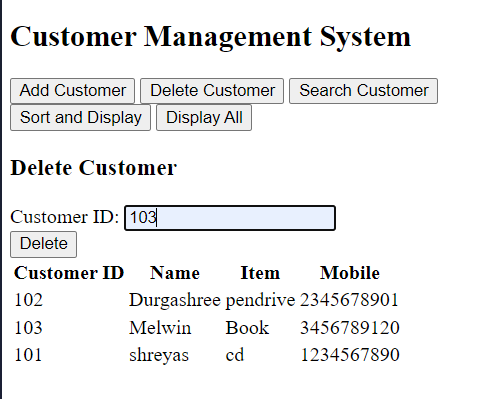
$conn->close();

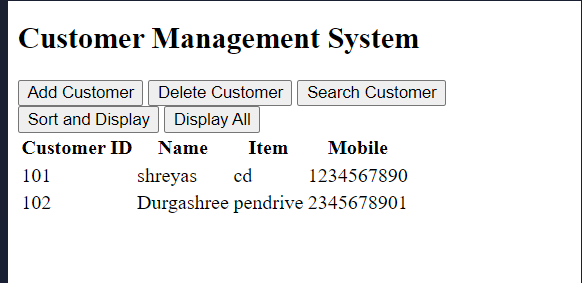
?>

**OUTPUT:**

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****

**7. A PHP and MySQL programme that features a book shopping form that takes in the book number, book title, price, quantity, and a option to choose the book code. The bill with the discounted amount and net bill amount is then displayed. Additionally, bill data are stored in the table.**

**Code Discount rate**

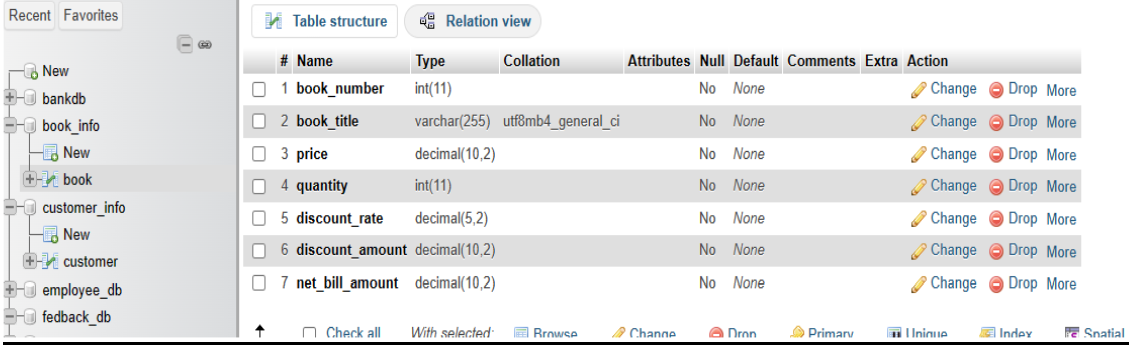
**101 15%**

**102 20%**

**103 25%**

**Any other 5% Find the discount amount and Net bill amount. Display the bill.**

**=**

****

**Index.php**

<!DOCTYPE html>

<html>

<head>

    <title>Book Shopping Form</title>

    <style>

        table {

            border-collapse: collapse;

            width: 100%;

        }

        th, td {

            border: 1px solid black;

            padding: 8px;

            text-align: left;

        }

        th {

            background-color: #f2f2f2;

        }

    </style>

</head>

<body>

    <h2>Book Shopping Form</h2>

    <form method="post" action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>">

        Book Number: <input type="number" name="book\_number" required><br><br>

        Book Title: <input type="text" name="book\_title" required><br><br>

        Price: <input type="number" name="price" step="0.01" required><br><br>

        Quantity: <input type="number" name="quantity" required><br><br>

        <input type="submit" name="submit" value="Submit">

    </form>

    <?php

    $servername = "localhost";

    $username = "root";

    $password = "";

    $database = "book\_info";

    $conn = new mysqli($servername, $username, $password, $database);

    if ($conn->connect\_error) {

        die("Connection failed: " . $conn->connect\_error);

    }

    function calDiscount($price, $discount\_rate) {

        return ($price \* $discount\_rate) / 100;

    }

    function calNetBill($price, $quantity, $discount\_amount) {

        return ($price \* $quantity) - $discount\_amount;

    }

    if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

        $book\_number = $\_POST["book\_number"];

        $book\_title = $\_POST["book\_title"];

        $price = $\_POST["price"];

        $quantity = $\_POST["quantity"];

        switch ($book\_number) {

            case 101:

                $discount\_rate = 15;

                break;

            case 102:

                $discount\_rate = 20;

                break;

            case 103:

                $discount\_rate = 25;

                break;

            default:

                $discount\_rate = 5;

        }

        $discount\_amount = calDiscount($price, $discount\_rate);

        $net\_bill\_amount = calNetBill($price, $quantity, $discount\_amount);

        $sql = "INSERT INTO BOOK (book\_number, book\_title, price, quantity, discount\_rate, discount\_amount, net\_bill\_amount) VALUES ('$book\_number', '$book\_title', '$price', '$quantity', '$discount\_rate', '$discount\_amount', '$net\_bill\_amount')";

        if ($conn->query($sql) === TRUE) {

            echo "<script>alert('Bill saved successfully.');</script>";

        } else {

            echo "<script>alert('Error: " . $sql . "<br>" . $conn->error . "');</script>";

        }

        echo "<h2 style='text-align: center;'>Book Bill</h2>";

        echo "<table>";

        echo "<tr><th>Book Number</th><th>Book Title</th><th>Price</th><th>Quantity</th><th>Discount Rate (%)</th><th>Discount Amount</th><th>Net Bill Amount</th></tr>";

        echo "<tr>";

        echo "<td>".$book\_number."</td>";

        echo "<td>".$book\_title."</td>";

        echo "<td>".$price."</td>";

        echo "<td>".$quantity."</td>";

        echo "<td>".$discount\_rate."</td>";

        echo "<td>".$discount\_amount."</td>";

        echo "<td>".$net\_bill\_amount."</td>";

        echo "</tr>";

        echo "</table>";

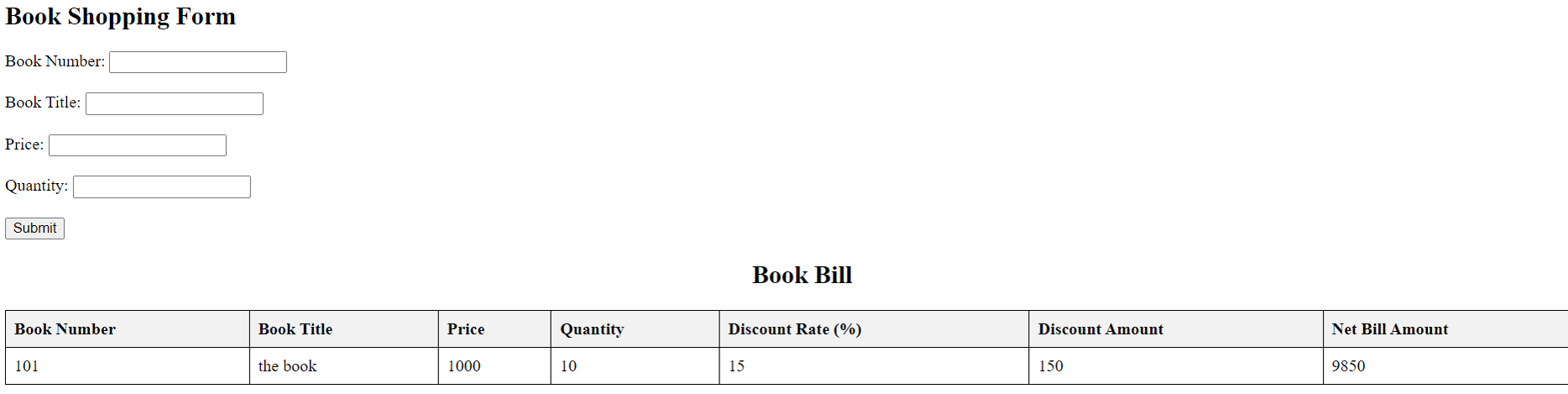
    }

    $conn->close();

    ?>

</body>

</html>

**OUTPUT:  
**

**8. Develop a web application for proficiently managing hotel reservations, employing PHP for backend logic and MySQL for data storage. The application should feature a well-structured database table encompassing essential fields such as Room Number (primary key), Room Type (e.g., single semi, single deluxe, double semi, double deluxe, dormitory), Capacity, and Status (booked or available). Within the application's user interface, provide a textbox for entering the room number and two distinct buttons for check-in and check-out functionalities. Ensure that both checkin and check-out operations are executed based on the entered room number, facilitating a seamless and intuitive user experience**

**A. Insert 5 records into the table through interface, reflecting both available and booked rooms.**

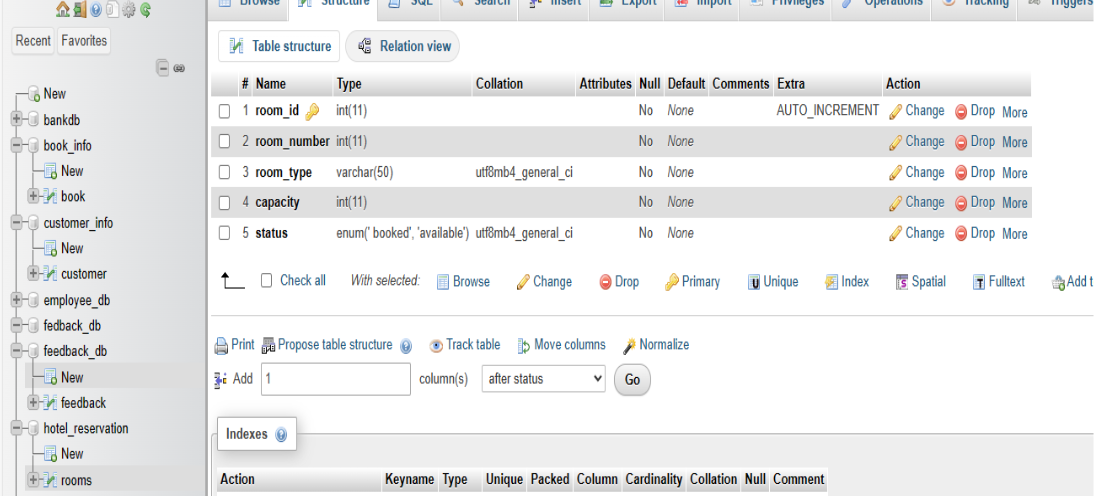
**B. Lists all available rooms and booked rooms on the webpage.**

**C. Change the booking status to "booked" when a user checks in.**

**D. Change the room status to "available" when a user checks out.**

**E. Displays appropriate messages for successful booking, check-out, or if the room number is not present or not in the expected status.**

**=**

****

**Index.php**

<!DOCTYPE html>

<html>

<head>

    <title>Hotel Reservation System</title>

</head>

<body>

    <h2>Hotel Reservation System</h2>

    <h3>Insert Records</h3>

    <form method="post">

        Room Number: <input type="number" name="room\_number" required><br>

        Room Type: <input type="text" name="room\_type" required><br>

        Capacity: <input type="number" name="capacity" required><br>

        Status: <select name="status" required>

                    <option value="available">Available</option>

                    <option value="booked">Booked</option>

                </select><br>

        <input type="submit" name="insert" value="Insert Record">

    </form>

    <?php

    $conn = new mysqli("localhost", "root", "", "hotel\_reservation");

    if (isset($\_POST['insert'])) {

        $room\_number = $\_POST["room\_number"];

        $room\_type = $\_POST["room\_type"];

        $capacity = $\_POST["capacity"];

        $status = $\_POST["status"];

        $sql\_insert = "INSERT INTO rooms (room\_number, room\_type, capacity, status) VALUES ('$room\_number', '$room\_type', '$capacity', '$status')";

        if ($conn->query($sql\_insert) === TRUE) {

            echo "Record inserted successfully.";

        } else {

            echo "Error: " . $conn->error;

        }

    }

    ?>

    <h3>Available Rooms</h3>

    <?php

    $sql\_available = "SELECT \* FROM rooms WHERE status = 'available'";

    $result\_available = $conn->query($sql\_available);

    if ($result\_available->num\_rows > 0) {

        echo "<table border='1'>

        <tr><th>Room Number</th><th>Room Type</th><th>Capacity</th></tr>";

        while($row = $result\_available->fetch\_assoc()) {

            echo "<tr><td>" . $row["room\_number"] . "</td><td>" . $row["room\_type"] . "</td><td>" . $row["capacity"] . "</td></tr>";

        }

        echo "</table>";

    } else {

        echo "No available rooms.";

    }

    ?>

    <h3>Booked Rooms</h3>

    <?php

    $sql\_booked = "SELECT \* FROM rooms WHERE status = 'booked'";

    $result\_booked = $conn->query($sql\_booked);

    if ($result\_booked->num\_rows > 0) {

        echo "<table border='1'>

        <tr><th>Room Number</th><th>Room Type</th><th>Capacity</th></tr>";

        while($row = $result\_booked->fetch\_assoc()) {

            echo "<tr><td>" . $row["room\_number"] . "</td><td>" . $row["room\_type"] . "</td><td>" . $row["capacity"] . "</td></tr>";

        }

        echo "</table>";

    } else {

        echo "No booked rooms.";

    }

    ?>

    <h3>Check-out</h3>

    <form method="post">

        Room Number: <input type="number" name="room\_number" required><br>

        <input type="submit" name="check\_out" value="Check-out">

    </form>

    <h3>Check-in</h3>

    <form method="post">

        Room Number: <input type="number" name="room\_number" required><br>

        <input type="submit" name="check\_in" value="Check-in">

    </form>

    <?php

    if (isset($\_POST['check\_out'])) {

        $room\_number = $\_POST["room\_number"];

        $sql\_check\_room = "SELECT \* FROM rooms WHERE room\_number = '$room\_number' AND status = 'booked'";

        $result\_check\_room = $conn->query($sql\_check\_room);

        if ($result\_check\_room->num\_rows == 1) {

            $sql\_check\_out = "UPDATE rooms SET status = 'available' WHERE room\_number = '$room\_number'";

            if ($conn->query($sql\_check\_out) === TRUE) {

                echo "Room checked out successfully.";

            } else {

                echo "Error: " . $conn->error;

            }

        } else {

            echo "Room is either not booked or does not exist.";

        }

    }

    if (isset($\_POST['check\_in'])) {

        $room\_number = $\_POST["room\_number"];

        $sql\_check\_room = "SELECT \* FROM rooms WHERE room\_number = '$room\_number' AND status = 'available'";

        $result\_check\_room = $conn->query($sql\_check\_room);

        if ($result\_check\_room->num\_rows == 1) {

            $sql\_check\_in = "UPDATE rooms SET status = 'booked' WHERE room\_number = '$room\_number'";

            if ($conn->query($sql\_check\_in) === TRUE) {

                echo "Room checked in successfully.";

            } else {

                echo "Error: " . $conn->error;

            }

        } else {

            echo "Room is not available for check-in.";

        }

    }

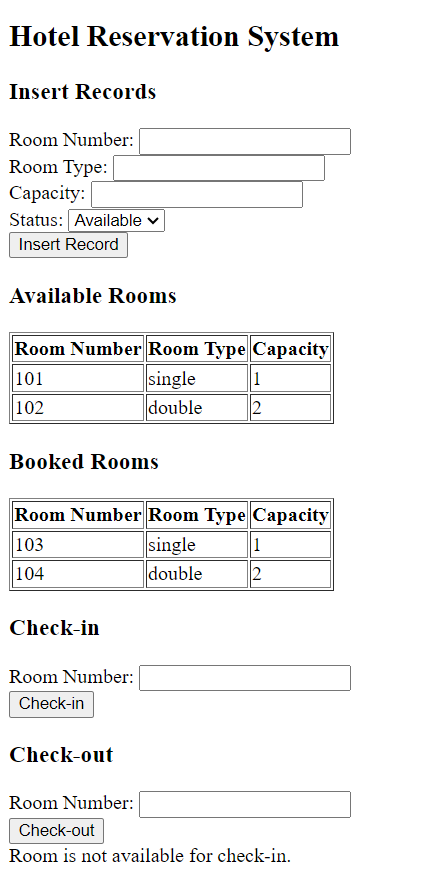
    $conn->close();

    ?>

</body>

</html>

**OUTPUT:**

****