**SQL PROJECT:**

**SIMPLE DATABASE USING SQL**:

-- Create the Customers table

CREATE TABLE Customers (

CustomerID INT PRIMARY KEY AUTO\_INCREMENT,

Name VARCHAR(100),

Phone VARCHAR(20),

Email VARCHAR(100)

);

-- Create the Orders table

CREATE TABLE Orders (

OrderID INT PRIMARY KEY AUTO\_INCREMENT,

CustomerID INT,

OrderDate DATE,

TotalAmount DECIMAL(10, 2),

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)

);

-- Create the MenuItems table

CREATE TABLE MenuItems (

ItemID INT PRIMARY KEY AUTO\_INCREMENT,

Name VARCHAR(100),

Price DECIMAL(10, 2),

Description VARCHAR(200)

);

-- Create the OrderItems table

CREATE TABLE OrderItems (

OrderItemID INT PRIMARY KEY AUTO\_INCREMENT,

OrderID INT,

ItemID INT,

Quantity INT,

FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),

FOREIGN KEY (ItemID) REFERENCES MenuItems(ItemID)

);

**TO ADD CUSTOMER:**

INSERT INTO Customers (Name, Phone, Email)

VALUES ('John Doe', '1234567890', 'johndoe@example.com');

**TO PLACE AN ORDER:**

INSERT INTO Orders (CustomerID, OrderDate, TotalAmount)

VALUES (1, '2023-06-28', 50.00);

**TO ADD A MENU ITEM:**

INSERT INTO MenuItems (Name, Price, Description)

VALUES ('Cheeseburger', 9.99, 'Juicy beef patty with melted cheese on a sesame bun.');

**TO ADD AN ORDER ITEM:**

INSERT INTO OrderItems (OrderID, ItemID, Quantity)

VALUES (1, 1, 2);

**FOR REALTIME WE NEED A SERVERSIDE PROGRAMMING LANGUAGE WHICH IS PHP**

**FOR THE FRONTEND PART**

THE FIRST FILE

**index.php:**

<!DOCTYPE html>

<html>

<head>

<title>Restaurant Management System</title>

</head>

<body>

<h1>Restaurant Management System</h1>

<!-- Customer Management Section -->

<h2>Customer Management</h2>

<form method="post" action="add\_customer.php">

<input type="text" name="name" placeholder="Name" required>

<input type="text" name="phone" placeholder="Phone" required>

<input type="email" name="email" placeholder="Email" required>

<button type="submit">Add Customer</button>

</form>

<!-- Order Placement Section -->

<h2>Order Placement</h2>

<form method="post" action="place\_order.php">

<select name="customer\_id" required>

<option value="" disabled selected>Select Customer</option>

<!-- Fetch and populate customer options dynamically from the database -->

<?php

// Establish database connection

$servername = "localhost";

$username = "ashfaaq";

$password = "ashfaaq";

$dbname = "restaurant\_management";

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

// Fetch customers from the database

$sql = "SELECT CustomerID, Name FROM Customers";

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

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

echo "<option value='".$row['CustomerID']."'>".$row['Name']."</option>";

}

?>

</select>

<input type="date" name="order\_date" required>

<input type="text" name="total\_amount" placeholder="Total Amount" required>

<button type="submit">Place Order</button>

</form>

<!-- Menu Item Management Section -->

<h2>Menu Item Management</h2>

<form method="post" action="add\_menu\_item.php">

<input type="text" name="item\_name" placeholder="Item Name" required>

<input type="text" name="item\_price" placeholder="Item Price" required>

<textarea name="item\_description" placeholder="Item Description" required></textarea>

<button type="submit">Add Menu Item</button>

</form>

<!-- Order Item Management Section -->

<h2>Order Item Management</h2>

<form method="post" action="add\_order\_item.php">

<select name="order\_id" required>

<option value="" disabled selected>Select Order</option>

<!-- Fetch and populate order options dynamically from the database -->

<?php

// Fetch orders from the database

$sql = "SELECT OrderID FROM Orders";

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

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

echo "<option value='".$row['OrderID']."'>".$row['OrderID']."</option>";

}

?>

</select>

<select name="item\_id" required>

<option value="" disabled selected>Select Menu Item</option>

<!-- Fetch and populate menu item options dynamically from the database -->

<?php

// Fetch menu items from the database

$sql = "SELECT ItemID, Name FROM MenuItems";

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

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

echo "<option value='".$row['ItemID']."'>".$row['Name']."</option>";

}

?>

</select>

<input type="text" name="quantity" placeholder="Quantity" required>

<button type="submit">Add Order Item</button>

</form>

</body>

</html>

**add\_customer.php:**

<?php

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

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

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

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

// Establish database connection

$servername = "localhost";

$username = "ashfaaq";

$password = "ashfaaq";

$dbname = "restaurant\_management";

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

// Insert customer into the database

$sql = "INSERT INTO Customers (Name, Phone, Email) VALUES ('$name', '$phone', '$email')";

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

echo "Customer added successfully!";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

// Close database connection

$conn->close();

}

?>

**Place\_order.php:**

<?php

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

$customerID = $\_POST["customer\_id"];

$orderDate = $\_POST["order\_date"];

$totalAmount = $\_POST["total\_amount"];

// Establish database connection

$servername = "localhost";

$username = "ashfaaq";

$password = "ashfaaq";

$dbname = "restaurant\_management";

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

// Insert order into the database

$sql = "INSERT INTO Orders (CustomerID, OrderDate, TotalAmount) VALUES ($customerID, '$orderDate', $totalAmount)";

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

echo "Order placed successfully!";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

// Close database connection

$conn->close();

}

?>

**add\_menu\_item.php:**

<?php

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

$itemName = $\_POST["item\_name"];

$itemPrice = $\_POST["item\_price"];

$itemDescription = $\_POST["item\_description"];

// Establish database connection

$servername = "localhost";

$username = "ashfaaq";

$password = "ashfaaq";

$dbname = "restaurant\_management";

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

// Insert menu item into the database

$sql = "INSERT INTO MenuItems (Name, Price, Description) VALUES ('$itemName', $itemPrice, '$itemDescription')";

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

echo "Menu item added successfully!";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

// Close database connection

$conn->close();

}

?>

**add\_order\_item.php:**

<?php

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

$orderID = $\_POST["order\_id"];

$menuItemID = $\_POST["item\_id"];

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

// Establish database connection

$servername = "localhost";

$username = "ashfaaq";

$password = "ashfaaq";

$dbname = "restaurant\_management";

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

// Insert order item into the database

$sql = "INSERT INTO OrderItems (OrderID, ItemID, Quantity) VALUES ($orderID, $menuItemID, $quantity)";

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

echo "Order item added successfully!";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

// Close database connection

$conn->close();

}

?>