

# **UNIVERSITY OF NORTH TEXAS**

COMPUTER SCIENCE DEPARTMENT

CSCE5350/FUNDAMENTALS OF DATABASE SYSTEMS

## **RESTAURANT MANAGMENT SYSTEM**

### **PROJECT FINAL REPORT**

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### **GROUP 9**

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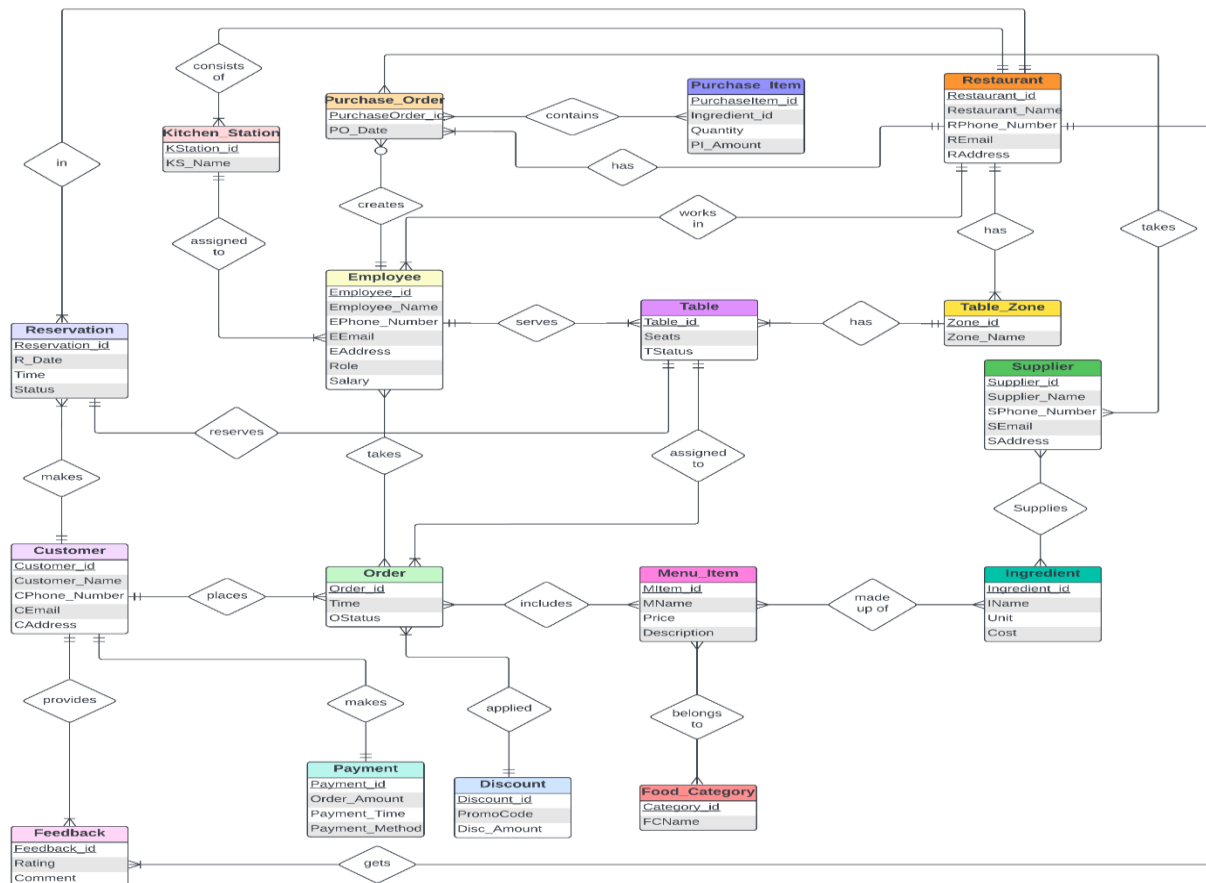
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### Project Description:

Restaurant Management System is a desktop software application designed that helps restaurant owners manage their business operations by automating various tasks such as order management, handling payments, scheduling reservations, storing customer feedbacks, employee management. The system is designed to give best customer experience while streamlining restaurant operations. System is built using Python and CustomTkinter, a custom-built GUI toolkit that extends the functionality of the standard Tkinter library. This application offers an intuitive and user-friendly interface that is easy to navigate. Main Window have two options which provides Employee and Customer flows separately. Here we have concentrated more on Customer flows as it is mainly designed for restaurant to make customer experience as hassle-free. Employee flow can only provide the view of the whole restaurant related data. If Customer is a new person, it grabs his/her data and stores in database. If Customer is an existing one, then it allows to make Reservations, Order the food & make payment, provide the Feedback.

### ER Model:



Relational Schema is clearly available in our Project Proposal document, which will also be attached in this project submission files.

## **SQL Statements – Create Tables**

### **Customer**

```
CREATE TABLE `customer` (  
  `Customer_id` int NOT NULL,  
  `Customer_Name` varchar(50) DEFAULT NULL,  
  `CPhone_Number` varchar(20) DEFAULT NULL,  
  `CEmail` varchar(50) DEFAULT NULL,  
  `CAddress` varchar(100) DEFAULT NULL,  
  PRIMARY KEY (`Customer_id`)  
)
```

### **Discount**

```
CREATE TABLE `discount` (  
  `Discount_id` int NOT NULL,  
  `PromoCode` varchar(20) NOT NULL,  
  `Disc_Amount` decimal(10,2) NOT NULL,  
  PRIMARY KEY (`Discount_id`)  
)
```

### **Employee**

```
CREATE TABLE `employee` (  
  `Employee_id` int NOT NULL,  
  `Employee_Name` varchar(50) DEFAULT NULL,  
  `EPhone_Number` varchar(20) DEFAULT NULL,  
  `EEEmail` varchar(50) DEFAULT NULL,  
  `EAddress` varchar(100) DEFAULT NULL,  
  `Role` varchar(10) DEFAULT NULL,  
  `Salary` decimal(10,2) DEFAULT NULL,  
  `KStation_id` int DEFAULT NULL,  
  `Restaurant_id` int DEFAULT NULL,  
  PRIMARY KEY (`Employee_id`),  
  KEY `KStation_id` (`KStation_id`),  
  KEY `Restaurant_id` (`Restaurant_id`),  
  CONSTRAINT `employee_ibfk_1` FOREIGN KEY (`KStation_id`) REFERENCES `kitchen_station`  
  (`KStation_id`),  
  CONSTRAINT `employee_ibfk_2` FOREIGN KEY (`Restaurant_id`) REFERENCES `restaurant`  
  (`Restaurant_id`)  
)
```

### **Employee\_Order**

```
CREATE TABLE `employee` (  
  `Employee_id` int NOT NULL,  
  `Employee_Name` varchar(50) DEFAULT NULL,
```

```

`EPhone_Number` varchar(20) DEFAULT NULL,
`Email` varchar(50) DEFAULT NULL,
`EAddress` varchar(100) DEFAULT NULL,
`Role` varchar(10) DEFAULT NULL,
`Salary` decimal(10,2) DEFAULT NULL,
`KStation_id` int DEFAULT NULL,
`Restaurant_id` int DEFAULT NULL,
PRIMARY KEY (`Employee_id`),
KEY `KStation_id` (`KStation_id`),
KEY `Restaurant_id` (`Restaurant_id`),
CONSTRAINT `employee_ibfk_1` FOREIGN KEY (`KStation_id`) REFERENCES `kitchen_station`
(`KStation_id`),
CONSTRAINT `employee_ibfk_2` FOREIGN KEY (`Restaurant_id`) REFERENCES `restaurant`
(`Restaurant_id`)
)

```

### **Feedback**

```

CREATE TABLE `feedback` (
  `Feedback_id` int NOT NULL,
  `Customer_id` int DEFAULT NULL,
  `Restaurant_id` int DEFAULT NULL,
  `Rating` int DEFAULT NULL,
  `Comment` text,
  PRIMARY KEY (`Feedback_id`),
  KEY `Customer_id` (`Customer_id`),
  KEY `Restaurant_id` (`Restaurant_id`),
  CONSTRAINT `feedback_ibfk_1` FOREIGN KEY (`Customer_id`) REFERENCES `customer`
(`Customer_id`),
  CONSTRAINT `feedback_ibfk_2` FOREIGN KEY (`Restaurant_id`) REFERENCES `restaurant`
(`Restaurant_id`)
)

```

### **Food\_Category**

```

CREATE TABLE `food_category` (
  `Category_id` int NOT NULL,
  `FCName` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`Category_id`)
)

```

### **Ingredient**

```

CREATE TABLE `ingredient` (
  `Ingredient_id` int NOT NULL,
  `IName` varchar(255) DEFAULT NULL,
  `Unit` varchar(50) DEFAULT NULL,

```

```
`Cost` decimal(10,2) DEFAULT NULL,  
PRIMARY KEY (`Ingredient_id`)  
)
```

### **Kitchen\_Station**

```
CREATE TABLE `kitchen_station` (  
  `KStation_id` int NOT NULL,  
  `KS_Name` varchar(50) NOT NULL,  
  `Restaurant_id` int NOT NULL,  
  PRIMARY KEY (`KStation_id`),  
  KEY `Restaurant_id` (`Restaurant_id`),  
  CONSTRAINT `kitchen_station_ibfk_1` FOREIGN KEY (`Restaurant_id`) REFERENCES `restaurant`  
  (`Restaurant_id`)  
)
```

### **Menu\_Item**

```
CREATE TABLE `menu_item` (  
  `MItem_id` int NOT NULL,  
  `MName` varchar(255) NOT NULL,  
  `Price` decimal(10,2) NOT NULL,  
  `Description` text,  
  PRIMARY KEY (`MItem_id`)  
)
```

### **MenuItem\_Category**

```
CREATE TABLE `menuitem_category` (  
  `MItem_id` int NOT NULL,  
  `Category_id` int NOT NULL,  
  PRIMARY KEY (`MItem_id`, `Category_id`),  
  KEY `Category_id` (`Category_id`),  
  CONSTRAINT `menuitem_category_ibfk_1` FOREIGN KEY (`MItem_id`) REFERENCES  
  `menu_item` (`MItem_id`),  
  CONSTRAINT `menuitem_category_ibfk_2` FOREIGN KEY (`Category_id`) REFERENCES  
  `food_category` (`Category_id`)  
)
```

### **MenuItem\_Ingredients**

```
CREATE TABLE `menuitem_ingredients` (  
  `MItem_id` int NOT NULL,  
  `Ingredient_id` int NOT NULL,  
  PRIMARY KEY (`MItem_id`, `Ingredient_id`),  
  KEY `Ingredient_id` (`Ingredient_id`),  
  CONSTRAINT `menuitem_ingredients_ibfk_1` FOREIGN KEY (`MItem_id`) REFERENCES  
  `menu_item` (`MItem_id`),
```

```
CONSTRAINT `menuitem_ingredients_ibfk_2` FOREIGN KEY (`Ingredient_id`) REFERENCES  
`ingredient` (`Ingredient_id`)  
)
```

### **Order**

```
CREATE TABLE `order` (  
  `Order_id` int NOT NULL,  
  `Table_id` int DEFAULT NULL,  
  `Customer_id` int DEFAULT NULL,  
  `Discount_id` int DEFAULT NULL,  
  `Time` datetime DEFAULT NULL,  
  `Status` varchar(50) DEFAULT NULL,  
  PRIMARY KEY (`Order_id`),  
  KEY `Table_id` (`Table_id`),  
  KEY `Customer_id` (`Customer_id`),  
  KEY `Discount_id` (`Discount_id`),  
  CONSTRAINT `order_ibfk_1` FOREIGN KEY (`Table_id`) REFERENCES `table` (`Table_id`),  
  CONSTRAINT `order_ibfk_2` FOREIGN KEY (`Customer_id`) REFERENCES `customer`  
(`Customer_id`),  
  CONSTRAINT `order_ibfk_3` FOREIGN KEY (`Discount_id`) REFERENCES `discount`  
(`Discount_id`)  
)
```

### **Order\_Menu**

```
CREATE TABLE `order_menu` (  
  `Order_id` int NOT NULL,  
  `MItem_id` int NOT NULL,  
  PRIMARY KEY (`Order_id`,`MItem_id`),  
  KEY `MItem_id` (`MItem_id`),  
  CONSTRAINT `order_menu_ibfk_1` FOREIGN KEY (`Order_id`) REFERENCES `order` (`Order_id`),  
  CONSTRAINT `order_menu_ibfk_2` FOREIGN KEY (`MItem_id`) REFERENCES `menu_item`  
(`MItem_id`)  
)
```

### **Payment**

```
CREATE TABLE `payment` (  
  `Payment_id` int NOT NULL,  
  `Customer_id` int DEFAULT NULL,  
  `Order_id` int DEFAULT NULL,  
  `Order_Amount` decimal(10,2) DEFAULT NULL,  
  `Payment_Time` datetime DEFAULT NULL,  
  `Payment_Method` varchar(50) DEFAULT NULL,  
  PRIMARY KEY (`Payment_id`),  
  KEY `Order_id` (`Order_id`),
```

```

KEY `Customer_id` (`Customer_id`),
CONSTRAINT `payment_ibfk_1` FOREIGN KEY (`Order_id`) REFERENCES `order` (`Order_id`),
CONSTRAINT `payment_ibfk_2` FOREIGN KEY (`Customer_id`) REFERENCES `customer`
(`Customer_id`)
)

```

#### **Purchase\_Item**

```

CREATE TABLE `purchase_item` (
  `PurchaseItem_id` int NOT NULL,
  `Ingredient_id` int DEFAULT NULL,
  `Quantity` int DEFAULT NULL,
  `PI_Amount` decimal(10,2) DEFAULT NULL,
  PRIMARY KEY (`PurchaseItem_id`),
  KEY `Ingredient_id` (`Ingredient_id`),
  CONSTRAINT `purchase_item_ibfk_1` FOREIGN KEY (`Ingredient_id`) REFERENCES `ingredient`
(`Ingredient_id`)
)

```

#### **Purchase\_Order**

```

CREATE TABLE `purchase_order` (
  `PurchaseOrder_id` int NOT NULL,
  `PO_Date` date DEFAULT NULL,
  `Restaurant_id` int DEFAULT NULL,
  `Employee_id` int DEFAULT NULL,
  `Supplier_id` int DEFAULT NULL,
  PRIMARY KEY (`PurchaseOrder_id`),
  KEY `Restaurant_id` (`Restaurant_id`),
  KEY `Employee_id` (`Employee_id`),
  KEY `Supplier_id` (`Supplier_id`),
  CONSTRAINT `purchase_order_ibfk_1` FOREIGN KEY (`Restaurant_id`) REFERENCES
`restaurant` (`Restaurant_id`),
  CONSTRAINT `purchase_order_ibfk_2` FOREIGN KEY (`Employee_id`) REFERENCES `employee`
(`Employee_id`),
  CONSTRAINT `purchase_order_ibfk_3` FOREIGN KEY (`Supplier_id`) REFERENCES `supplier`
(`Supplier_id`)
)

```

#### **PurchaseOrder\_Items**

```

CREATE TABLE `purchaseorder_items` (
  `PurchaseOrder_id` int NOT NULL,
  `PurchaseItem_id` int NOT NULL,
  `PStatus` varchar(50) DEFAULT NULL,
  PRIMARY KEY (`PurchaseOrder_id`,`PurchaseItem_id`),
  KEY `PurchaseItem_id` (`PurchaseItem_id`),

```

```

    CONSTRAINT `purchaseorder_items_ibfk_1` FOREIGN KEY (`PurchaseOrder_id`) REFERENCES
`purchase_order` (`PurchaseOrder_id`),
    CONSTRAINT `purchaseorder_items_ibfk_2` FOREIGN KEY (`PurchaseItem_id`) REFERENCES
`purchase_item` (`PurchaseItem_id`)
)

```

### **Reservation**

```

CREATE TABLE `reservation` (
  `Reservation_id` int NOT NULL,
  `Customer_id` int DEFAULT NULL,
  `Restaurant_id` int DEFAULT NULL,
  `Table_id` int DEFAULT NULL,
  `R_Date` date DEFAULT NULL,
  `Time` time DEFAULT NULL,
  `Status` varchar(50) DEFAULT NULL,
  PRIMARY KEY (`Reservation_id`),
  KEY `Customer_id` (`Customer_id`),
  KEY `Restaurant_id` (`Restaurant_id`),
  KEY `Table_id` (`Table_id`),
  CONSTRAINT `reservation_ibfk_1` FOREIGN KEY (`Customer_id`) REFERENCES `customer`
(`Customer_id`),
  CONSTRAINT `reservation_ibfk_2` FOREIGN KEY (`Restaurant_id`) REFERENCES `restaurant`
(`Restaurant_id`),
  CONSTRAINT `reservation_ibfk_3` FOREIGN KEY (`Table_id`) REFERENCES `table` (`Table_id`)
)

```

### **Restaurant**

```

CREATE TABLE `restaurant` (
  `Restaurant_id` int NOT NULL,
  `Restaurant_Name` varchar(50) DEFAULT NULL,
  `RPhone_Number` varchar(20) DEFAULT NULL,
  `REmail` varchar(50) DEFAULT NULL,
  `RAddress` varchar(100) DEFAULT NULL,
  PRIMARY KEY (`Restaurant_id`)
)

```

### **Supplier**

```

CREATE TABLE `supplier` (
  `Supplier_id` int NOT NULL,
  `Supplier_Name` varchar(255) DEFAULT NULL,
  `SPhone_Number` varchar(20) DEFAULT NULL,
  `SEmail` varchar(255) DEFAULT NULL,
  `SAddress` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`Supplier_id`)
)

```



)

### **Supplier\_Ingredients**

```
CREATE TABLE `supplier_ingredients` (  
  `Supplier_id` int NOT NULL,  
  `Ingredient_id` int NOT NULL,  
  PRIMARY KEY (`Supplier_id`,`Ingredient_id`),  
  KEY `Ingredient_id` (`Ingredient_id`),  
  CONSTRAINT `supplier_ingredients_ibfk_1` FOREIGN KEY (`Supplier_id`) REFERENCES `supplier`  
  (`Supplier_id`),  
  CONSTRAINT `supplier_ingredients_ibfk_2` FOREIGN KEY (`Ingredient_id`) REFERENCES  
  `ingredient` (`Ingredient_id`)  
)
```

### **SupplierPurchase\_Order**

```
CREATE TABLE `supplierpurchase_order` (  
  `Supplier_id` int NOT NULL,  
  `PurchaseOrder_id` int NOT NULL,  
  PRIMARY KEY (`Supplier_id`,`PurchaseOrder_id`),  
  KEY `PurchaseOrder_id` (`PurchaseOrder_id`),  
  CONSTRAINT `supplierpurchase_order_ibfk_1` FOREIGN KEY (`Supplier_id`) REFERENCES  
  `supplier` (`Supplier_id`),  
  CONSTRAINT `supplierpurchase_order_ibfk_2` FOREIGN KEY (`PurchaseOrder_id`) REFERENCES  
  `purchase_order` (`PurchaseOrder_id`)  
)
```

### **Table**

```
CREATE TABLE `table` (  
  `Table_id` int NOT NULL,  
  `Zone_id` int DEFAULT NULL,  
  `Employee_id` int DEFAULT NULL,  
  `Seats` int DEFAULT NULL,  
  `TStatus` varchar(20) DEFAULT NULL,  
  PRIMARY KEY (`Table_id`),  
  KEY `Zone_id` (`Zone_id`),  
  KEY `Employee_id` (`Employee_id`),  
  CONSTRAINT `table_ibfk_1` FOREIGN KEY (`Zone_id`) REFERENCES `table_zone` (`Zone_id`),  
  CONSTRAINT `table_ibfk_2` FOREIGN KEY (`Employee_id`) REFERENCES `employee`  
  (`Employee_id`)  
)
```

### **Table\_Zone**

```
CREATE TABLE `table_zone` (  
  `Zone_id` int NOT NULL,
```

```
`Zone_Name` varchar(50) NOT NULL,  
`Restaurant_id` int NOT NULL,  
PRIMARY KEY (`Zone_id`),  
KEY `Restaurant_id` (`Restaurant_id`),  
CONSTRAINT `table_zone_ibfk_1` FOREIGN KEY (`Restaurant_id`) REFERENCES `restaurant`  
(`Restaurant_id`)  
)
```

## **SQL Statements – Insert Data**

### **Customer**

```
INSERT INTO customer (Customer_id, Customer_Name, CPhone_Number, CEmail, CAddress)  
VALUES  
(1, 'John Doe', '123-456-7890', 'johndoe@example.com', '123 Main St'),  
(2, 'Jane Smith', '555-555-5555', 'janesmith@example.com', '456 Elm St'),  
(3, 'Bob Johnson', '999-999-9999', 'bob@example.com', '789 Oak St'),  
(4, 'Alice Brown', '111-111-1111', 'alice@example.com', '456 Maple St'),  
(5, 'Tom Wilson', '222-222-2222', 'tom@example.com', '789 Pine St'),  
(6, 'Samantha Lee', '333-333-3333', 'samantha@example.com', '123 Cedar St');
```

### **Restaurant**

```
INSERT INTO restaurant (Restaurant_id, Restaurant_Name, RPhone_Number, REmail, RAddress)  
VALUES  
(1, 'The Best Burger', '123-456-7890', 'info@thebestburger.com', '456 Main St'),  
(2, 'Pizza Palace', '555-555-5555', 'contact@pizzapalace.com', '789 Elm St'),  
(3, 'Taco Time', '999-999-9999', 'info@tacotime.com', '123 Oak St');
```

### **Kitchen\_Station**

```
INSERT INTO kitchen_station (KStation_id, KS_Name, Restaurant_id)  
VALUES (1, 'Grill Station', 1), (2, 'Pizza Station', 2), (3, 'Taco Station', 3);
```

### **Employee**

```
INSERT INTO employee (Employee_id, Employee_Name, EPhone_Number, EEmail, EAddress,  
Role, Salary, KStation_id, Restaurant_id)  
VALUES  
-- Restaurant 1  
(1, 'John Smith', '123-456-7890', 'john.smith@restaurant1.com', '123 Main St', 'Manager',  
50000, NULL, 1),  
(2, 'Jane Doe', '555-555-5555', 'jane.doe@restaurant1.com', '456 Elm St', 'Server', 20000,  
NULL, 1),  
(3, 'Samantha Brown', '999-999-9999', 'samantha.brown@restaurant1.com', '789 Oak St',  
'Chef', 60000, 1, 1),  
(4, 'Michael Johnson', '111-111-1111', 'michael.johnson@restaurant1.com', '1010 Broad St',  
'Host', 18000, NULL, 1),
```

```

(5, 'Sarah Lee', '222-222-2222', 'sarah.lee@restaurant1.com', '1313 5th Ave', 'Chef', 60000, 2,
1),
(6, 'Peter Green', '333-333-3333', 'peter.green@restaurant1.com', '1212 6th Ave', 'Chef',
60000, 3, 1),
(7, 'Alex Davis', '444-444-4444', 'alex.davis@restaurant2.com', '222 Main St', 'Manager',
50000, NULL, 1),
(8, 'Emily Wilson', '777-777-7777', 'emily.wilson@restaurant2.com', '333 Elm St', 'Server',
20000, NULL, 1),
(9, 'Olivia Lee', '999-999-9999', 'olivia.lee@restaurant2.com', '555 Broad St', 'Host', 18000,
NULL, 1),
(10, 'Jessica Smith', '666-666-6666', 'jessica.smith@restaurant3.com', '444 Elm St', 'Server',
20000, NULL, 1);

```

### Table\_Zone

```

INSERT INTO table_zone (Zone_id, Zone_Name, Restaurant_id)
VALUES
-- Restaurant 1
(1, 'Zone 1', 1), (2, 'Zone 2', 1), (3, 'Zone 3', 1);

```

### Table

```

INSERT INTO `Table` (Table_id, Zone_id, Employee_id, Seats, TStatus)
VALUES
(1, 1, 1, 4, 'Available'), (2, 1, 2, 2, 'Available'), (3, 1, 3, 6, 'Occupied'), (4, 2, 4, 4, 'Available'),
(5, 2, 5, 2, 'Occupied'), (6, 2, 7, 6, 'Available'), (7, 3, 6, 4, 'Available'), (8, 3, 8, 2, 'Available'),
(9, 3, 9, 6, 'Available');

```

### Reservation

```

INSERT INTO reservation (Reservation_id, Customer_id, Restaurant_id, Table_id, R_Date, Time,
Status)
VALUES
(1, 1, 1, 1, '2023-04-03', '18:30:00', 'Confirmed'), (2, 2, 1, 2, '2023-04-03', '19:00:00',
'Confirmed'), (3, 3, 1, 4, '2023-04-03', '19:30:00', 'Confirmed'), (4, 4, 1, 5, '2023-04-03',
'20:00:00', 'Confirmed'), (5, 5, 1, 7, '2023-04-03', '20:30:00', 'Confirmed'), (6, 6, 1, 8, '2023-04-
03', '21:00:00', 'Confirmed');

```

### Discount

```

INSERT INTO discount (Discount_id, PromoCode, Disc_Amount)
VALUES
(1, 'SUMMER10', 10.00), (2, 'FALL20', 20.00), (3, 'WINTER30', 30.00);

```

### Order

```

INSERT INTO `order` (Order_id, Table_id, Customer_id, Discount_id, Time, Status)
VALUES
(1, 1, 1, NULL, '2023-04-02 18:00:00', 'Close'), (2, 2, 2, NULL, '2023-04-02 18:15:00', 'Close'),

```

```
(3, 3, 3, NULL, '2023-04-02 18:30:00', 'Close'), (4, 4, 4, NULL, '2023-04-02 18:45:00', 'Close'),  
(5, 5, 5, NULL, '2023-04-02 19:00:00', 'Close'), (6, 6, 6, NULL, '2023-04-02 19:15:00', 'Close'),  
(7, 7, 1, 1, '2023-04-02 19:30:00', 'Open'), (8, 8, 2, 2, '2023-04-02 19:45:00', 'Open'),  
(9, 9, 3, 3, '2023-04-02 20:00:00', 'Open');
```

### **Payment**

```
INSERT INTO payment (Payment_id, Customer_id, Order_id, Order_Amount, Payment_Time,  
Payment_Method)  
VALUES
```

```
(1, 1, 1, 50.00, '2023-04-02 19:30:00', 'Cash'), (2, 2, 2, 35.00, '2023-04-02 20:00:00', 'Credit  
Card'), (3, 3, 3, 75.00, '2023-04-02 20:30:00', 'Debit Card'), (4, 4, 4, 42.00, '2023-04-02 21:00:00',  
'Others');
```

### **Feedback**

```
INSERT INTO feedback (Feedback_id, Customer_id, Restaurant_id, Rating, Comment)  
VALUES
```

```
(1, 1, 1, 4, 'The food was great, but the service could have been better.'),  
(2, 2, 1, 5, 'The pizza was amazing, and the service was top-notch!'),  
(3, 3, 1, 3, 'The tacos were average, and the service was slow.'),  
(4, 4, 1, 5, 'The burgers were delicious, and the service was friendly.'),  
(5, 5, 1, 4, 'The pasta was good, but the service was a bit slow.'),  
(6, 6, 1, 2, 'The food was terrible, and the service was rude.');
```

### **Menu\_Item**

```
INSERT INTO menu_item (MItem_id, MName, Price, Description) VALUES
```

```
(1, 'Classic Burger', 8.99, 'A juicy beef patty topped with lettuce, tomato, onion, and pickles'),  
(2, 'Chicken Caesar Salad', 10.99, 'Romaine lettuce, grilled chicken, croutons, and Parmesan  
cheese'),  
(3, 'Margherita Pizza', 12.99, 'Tomato sauce, fresh mozzarella, and basil on a thin crust'),  
(4, 'BBQ Ribs Pasta', 16.99, 'Slow-cooked and basted in our signature BBQ sauce'),  
(5, 'Fish and Chips Sides', 14.99, 'Beer-battered cod served with fries and tartar sauce'),  
(6, 'Spaghetti Bolognese Pasta', 11.99, 'Spaghetti with a meaty tomato sauce and Parmesan  
cheese'),  
(7, 'Avacado Burger', 10.99, 'Tasty burger with avocado and spicy sauce'),  
(8, 'Healthy Salad', 9.99, 'Healthy salad with mixed greens and veggies'),  
(9, 'Chicken Quinoa Salad', 11.99, 'Fresh salad with grilled chicken and quinoa'),  
(10, 'Classic Pizza', 12.99, 'Classic pizza with pepperoni and mushrooms'),  
(11, 'Gourmet pizza', 13.99, 'Gourmet pizza with prosciutto and arugula'),  
(12, 'Traditional pasta', 11.99, 'Traditional pasta with meat sauce'),  
(13, 'French Fries Sides', 3.99, 'Crispy french fries'),  
(14, 'Onion Rings Sides', 4.99, 'Golden Onion Rings'),  
(15, 'Soda Drink', 2.99, 'Refreshing soda'),  
(16, 'Lemon Tea Drink', 3.99, 'Iced tea with lemon');
```

### **Food\_Category**

```
INSERT INTO food_category (Category_id, FCName) VALUES  
(1, 'Burger'), (2, 'Salad'), (3, 'Pizza'), (4, 'Drink'), (5, 'Sides'), (6, 'Pasta');
```

### **Ingredient**

```
INSERT INTO ingredient (Ingredient_id, IName, Unit, Cost) VALUES  
(1, 'Ground Beef', 'lb', 3.99), (2, 'Chicken Breast', 'lb', 4.99), (3, 'Romaine Lettuce', 'head', 1.99),  
(4, 'Tomatoes', 'lb', 2.99), (5, 'Onions', 'lb', 1.49), (6, 'Pickles', 'jar', 2.49), (7, 'Pizza Dough', 'lb',  
2.99), (8, 'Mozzarella Cheese', 'lb', 5.99), (9, 'Basil', 'bunch', 1.99), (10, 'Pork Ribs', 'lb', 5.99), (11,  
'Cod Fillets', 'lb', 7.99), (12, 'Potatoes', 'lb', 0.99), (13, 'Flour', 'lb', 1.99), (14, 'Tomato Sauce',  
'can', 1.49), (15, 'Ground Pork', 'lb', 2.99);
```

### **Supplier**

```
INSERT INTO supplier (Supplier_id, Supplier_Name, SPhone_Number, SEmail, SAddress) VALUES  
(1, 'FreshMeat Inc.', '555-1234', 'info@freshmeat.com', '123 Main St'),  
(2, 'Greens Galore', '555-5678', 'info@greensgalore.com', '456 Elm St'),  
(3, 'Pizzaiolo Supplies', '555-9999', 'info@pizzaiolosupplies.com', '789 Oak St');
```

### **Purchase\_Order**

```
INSERT INTO purchase_order (PurchaseOrder_id, PO_Date, Restaurant_id, Employee_id,  
Supplier_id) VALUES  
(1, '2023-04-03', 1, 1, 1), (2, '2023-04-03', 1, 7, 2), (3, '2023-04-03', 1, 1, 3);
```

### **Purchase\_Item**

```
INSERT INTO purchase_item (PurchaseItem_id, Ingredient_id, Quantity, PI_Amount)  
VALUES  
(1, 2, 5, 10.50), (2, 1, 2, 6.00), (3, 3, 3, 8.25), (4, 4, 1, 3.50), (5, 5, 4, 12.00), (6, 6, 2, 7.00),  
(7, 7, 3, 9.75), (8, 8, 1, 4.00), (9, 9, 4, 11.50), (10, 10, 2, 6.00), (11, 11, 3, 8.25), (12, 12, 1, 3.50),  
(13, 13, 4, 12.00), (14, 14, 2, 7.00), (15, 15, 3, 9.75);
```

### **Employee\_Order**

```
INSERT INTO Employee_Order (Employee_id, Order_id, EO_Date)  
VALUES (1, 1, '2023-04-02'), (2, 1, '2023-04-02'), (3, 2, '2023-04-02');
```

### **Order\_Menu**

```
INSERT INTO Order_Menu (Order_id, MItem_id)  
VALUES (1, 1), (1, 2), (2, 3);
```

### **Menuitem\_Ingredients**

```
INSERT INTO Menuitem_Ingredients (MItem_id, Ingredient_id)  
VALUES (1, 1), (1, 2), (2, 3), (3, 4);
```

### **Menuitem\_Category**

```
INSERT INTO Menuitem_Category (MItem_id, Category_id)
```

VALUES (1, 1), (2, 2), (3, 3);

### **Supplier\_Ingredients**

INSERT INTO Supplier\_Ingredients (Supplier\_id, Ingredient\_id)  
VALUES (1, 1), (1, 2), (2, 3), (3, 4);

### **PurchaseOrder\_Items**

INSERT INTO PurchaseOrder\_Items (PurchaseOrder\_id, PurchaseItem\_id, PStatus) VALUES (1, 1, 'Ordered'), (1, 2, 'Delivered'), (2, 3, 'Ordered');

### **SupplierPurchase\_Order**

INSERT INTO SupplierPurchase\_Order (Supplier\_id, PurchaseOrder\_id)  
VALUES (1, 1), (2, 2), (3, 3);

## **Programming Languages**

- Python
- SQL

## **Software Platforms & Tools**

- My SQL WorkBench
- Microsoft Visual Studio / Jupyter Notebook / Anaconda
- CustomTkinter GUI

## **Installation & Execution of Project Code**

### **Pre-requisites:**

- Install MySQL Workbench, Python Libraries, Jupyter Notebook, CustomTkinter Packages

### **Setup to run the project:**

- Unzip the file 'Restaurant Project – Harini Kamarthy.zip'
- Database files are exported to 'Restaurant Project – Harini Kamarthy/Database' folder
- Create a database in MySQL Workbench and import these Database files into it

### **Steps to execute the project/application:**

- Open command prompt & Navigate to "Restaurant Project – Harini Kamarthy/UI Code" folder.
- Give command "jupyter notebook".
- From the opened weblink, open file "Restaurant Project UI" file.
- Tap on the code cell & click on "Run" button.

### **Code used to connect to the Database**

- Imported the package, **mysql.connector** into the code file

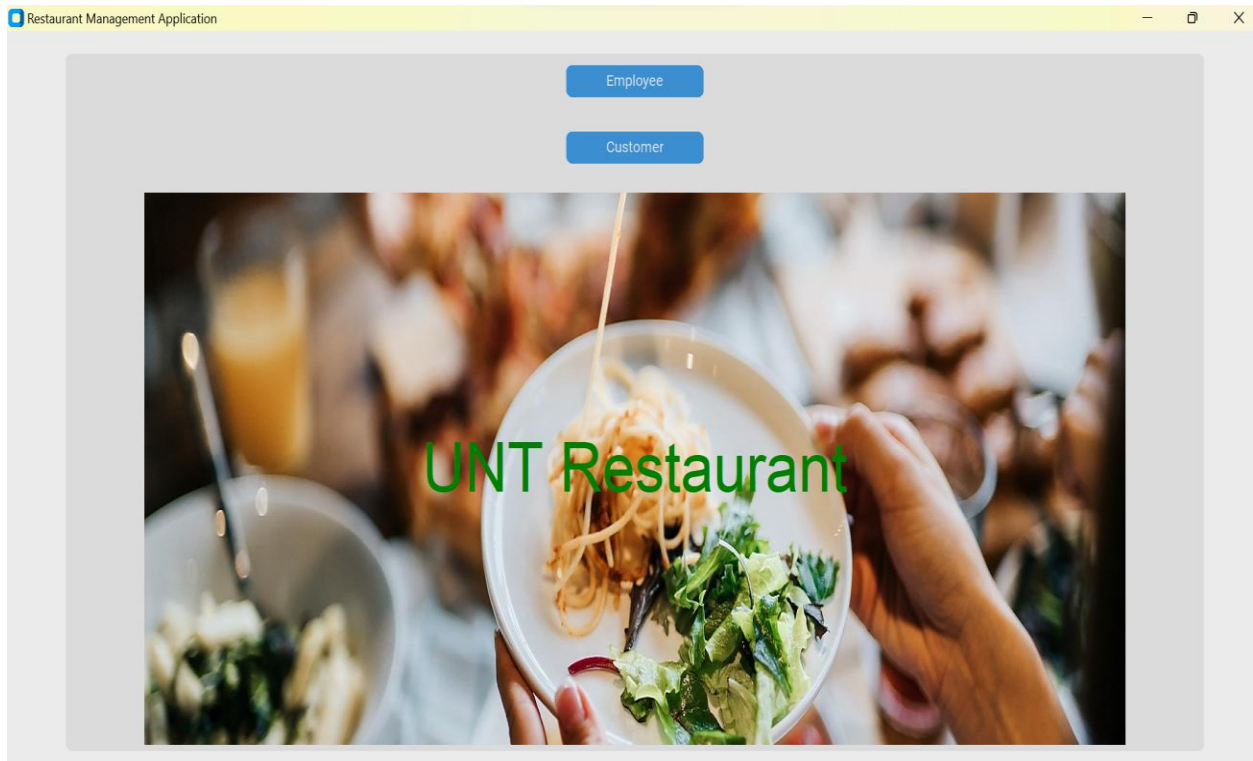
- Piece of code ---  
# Connect to the database  
db = mysql.connector.connect(  
    host="127.0.0.1",  
    user="root",  
    password="Harini@1234",  
    database="restaurant\_project"  
)

```
# Connect to the database  
db = mysql.connector.connect(  
    host="127.0.0.1",  
    user="root",  
    password="Harini@1234",  
    database="restaurant_project"  
)
```

## Application User Flows – Screenshots

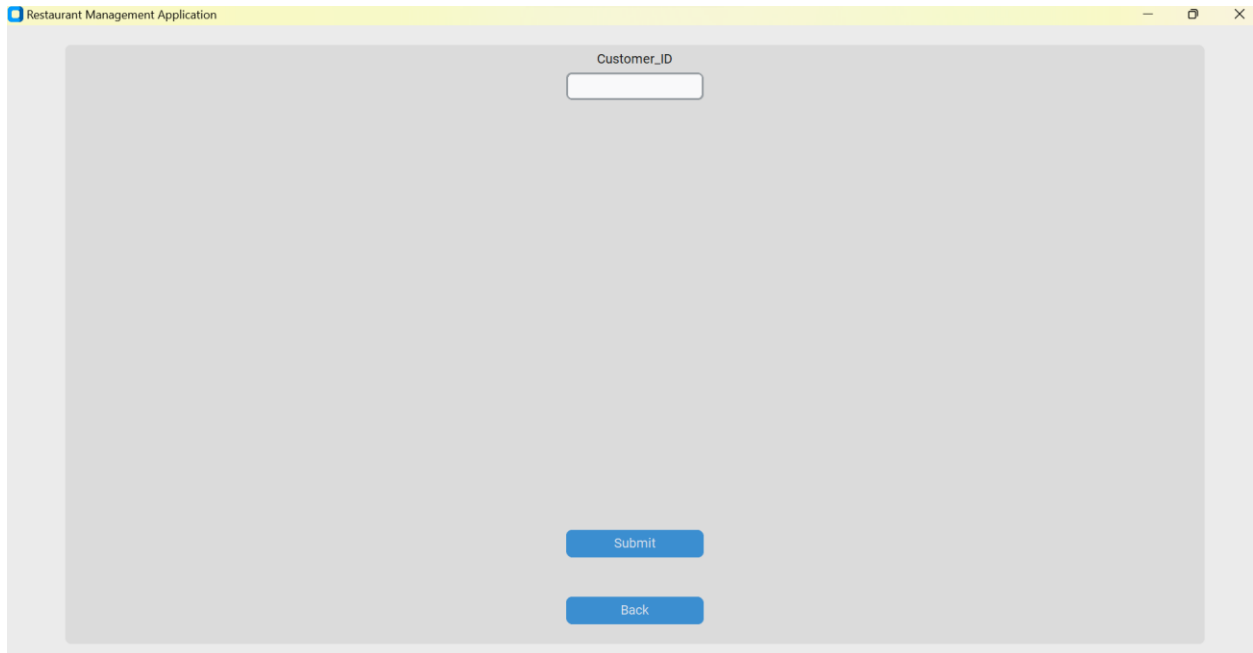
### Main Screen:

On Main Screen, we have two options (Buttons) Employee and Customer for their respective flows.



### Customer Screen:

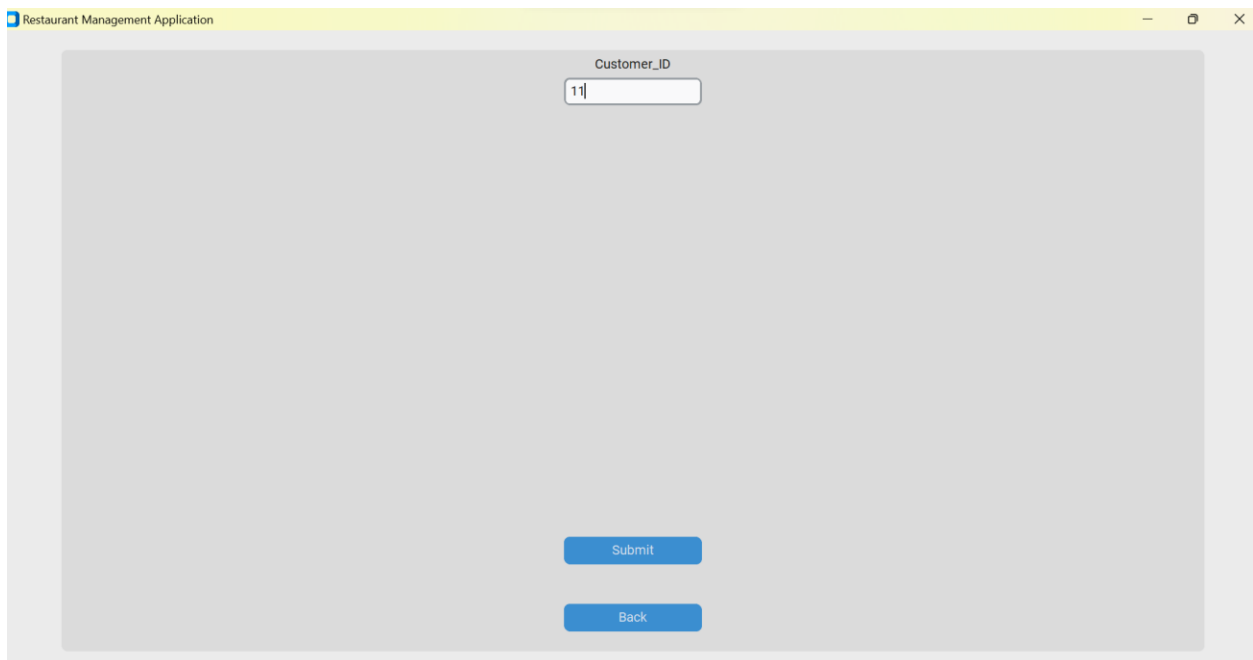
As I mentioned before, here we have implemented more on Customer flow. Clicking on Customer Button, user navigates to Customer Screen where he can enter customer id to verify if he is a new customer or an existing customer.



The screenshot shows a web application window titled "Restaurant Management Application". The main content area is a light gray rectangle. At the top center of this area is a text input field labeled "Customer\_ID". Below the input field, centered, are two blue buttons: "Submit" and "Back".

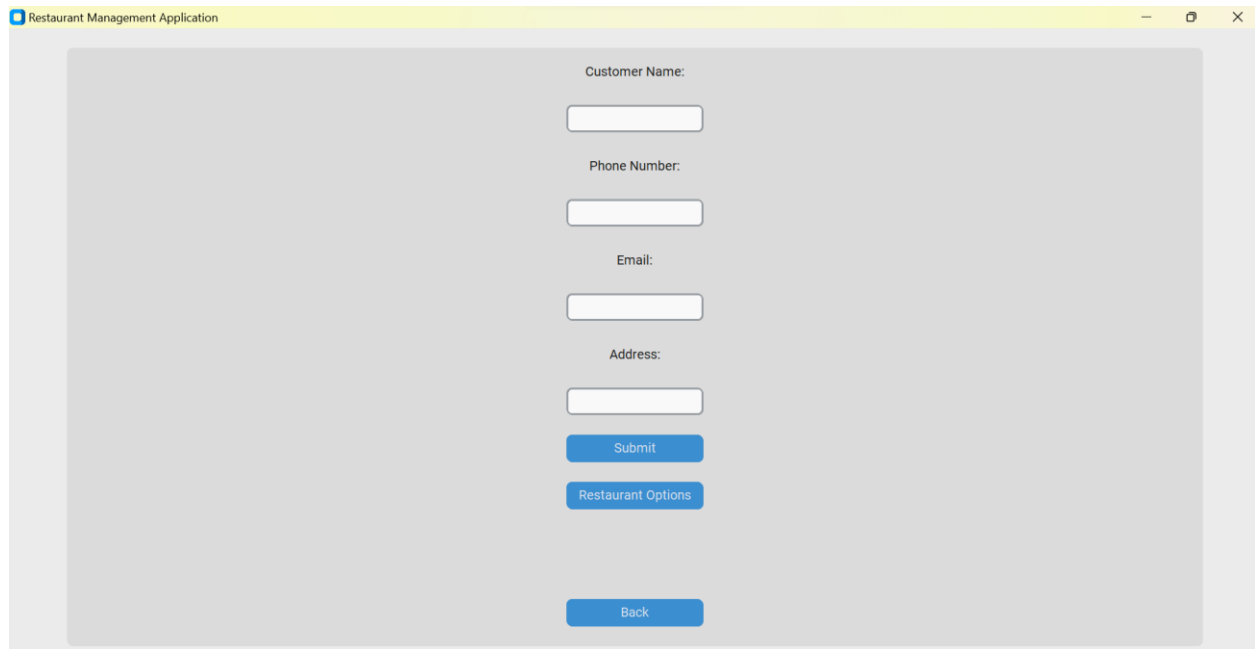
### New Customer flow:

If Customer id entered is new and not available in Customer table data in database, then user is navigated to Customer Details Entry Screen, after clicking on Submit button.



This screenshot is identical to the previous one, showing the "Customer Screen" with the "Customer\_ID" input field and "Submit" and "Back" buttons. The only difference is that the "Customer\_ID" field now contains the text "11".





Restaurant Management Application

Customer Name:

Phone Number:

Email:

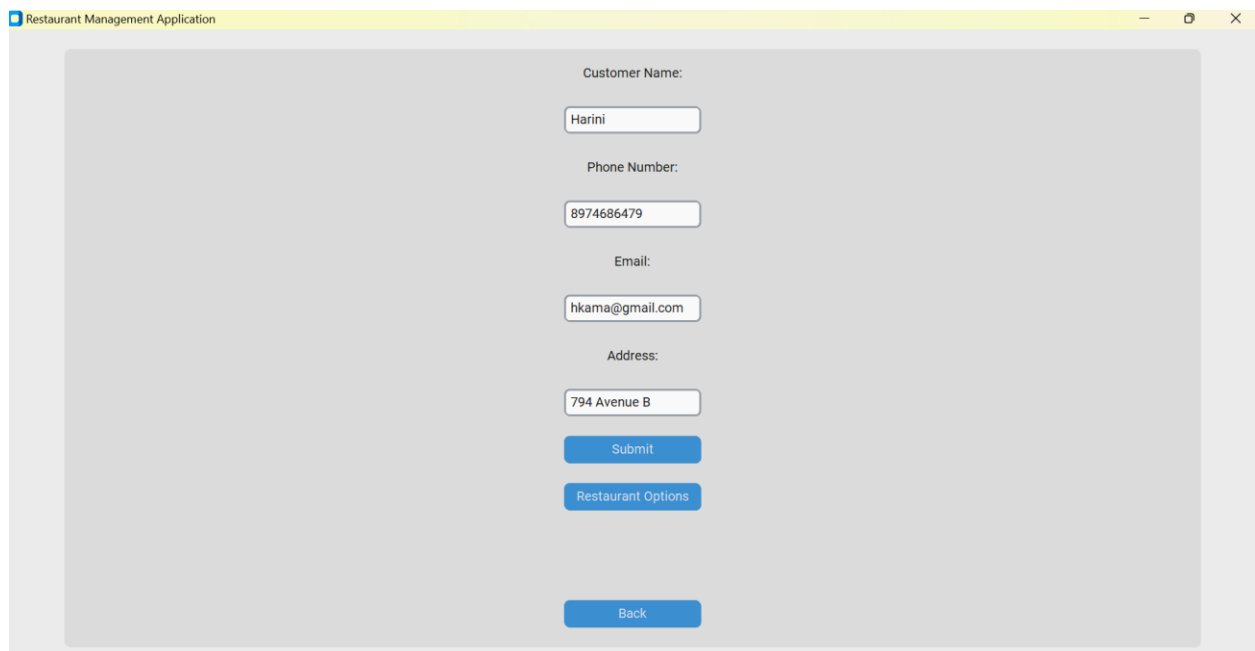
Address:

Submit

Restaurant Options

Back

After user enter all customer details and click on Submit button, Customer data saved success message is displayed asking the user to click on “Restaurant Options” to move further. Also, Clicking on Submit button, new customer data is saved, updating the “Customer” table in the database.



Restaurant Management Application

Customer Name:

Phone Number:

Email:

Address:

Submit

Restaurant Options

Back

Restaurant Management Application

Customer Name:

Harini

Phone Number:

8974686479

Email:

hkama@gmail.com

Address:

794 Avenue B

Submit

Restaurant Options

Customer 11 is added successfully, click on Restaurant Options button to continue

Back

Below is the screenshot of the updated table in the database in MySQL Workbench.

MySQL Workbench

mylocal\_mysql1

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

restaurant\_project

Tables

customer

discount

employee

employee\_order

feedback

food\_category

ingredient

kitchen\_station

menu\_item

menuitem\_category

menuitem\_ingredient

order

order\_menu

Administration Schemas

Information

Table: kitchen\_station

Columns:

KStation\_id int PK

KS\_Name varchar(

Restaurant\_id int

Insert Data Query File SQL File 2\* SQL File 4\*

Limit to 1000 rows

1 • select \* from restaurant\_project.customer;

Result Grid

Customer_id	Customer_Name	CPhone_Number	CEmail	CAddress
3	Bob Johnson	999-999-9999	bob@example.com	789 Oak St
4	Alice Brown	111-111-1111	alice@example.com	456 Maple St
5	Tom Wilson	222-222-2222	tom@example.com	789 Pine St
6	Samantha Lee	333-333-3333	samantha@example.com	123 Cedar St
7	Harini	1231231234	hbjk@jkb.com	578 gg v
8	Haone	4675966899	hvyhv@bj.com	6578 gyug b
9	vyshu	354678876	xhrt@hthj.com	fv68bvjh
10	vjh	659868788	gvghkf@hfyuf.com	765 hgfjyh h
11	Harini	8974686479	hkama@gmail.com	794 Avenue B

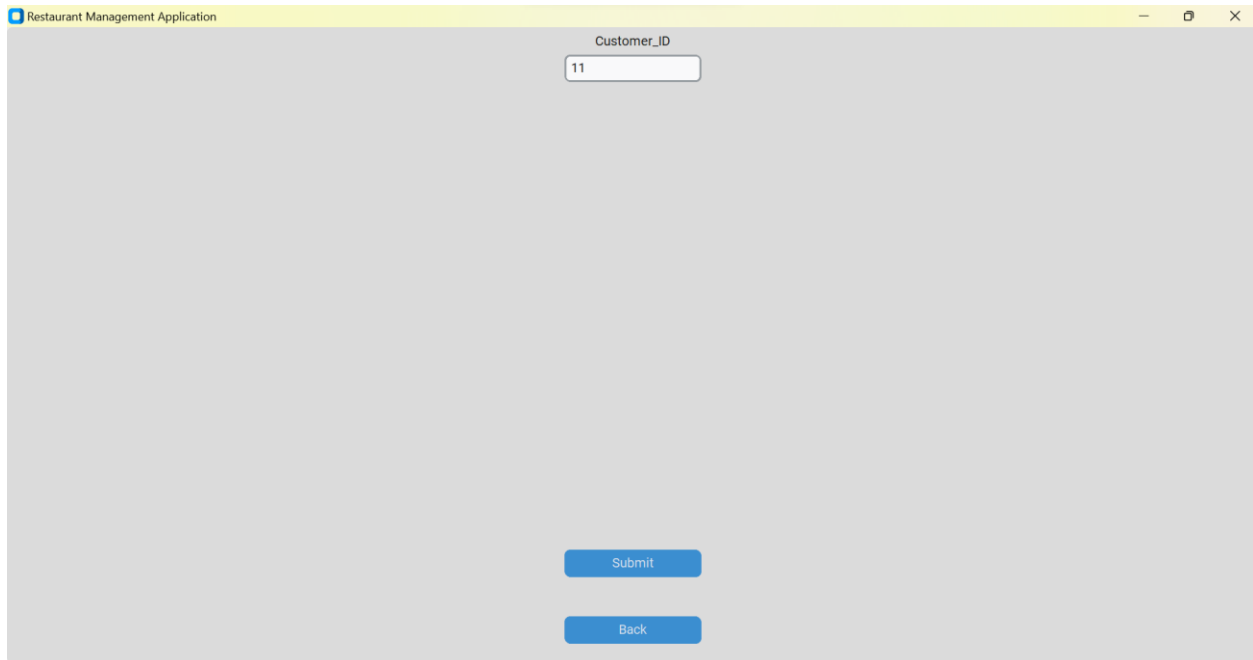
customer 5

Output

Clicking on “Restaurant Options” button, user navigates to Restaurant Options Screen where he/she can have options to make reservations, order the food, and provide the feedback.

### Existing Customer Flow:

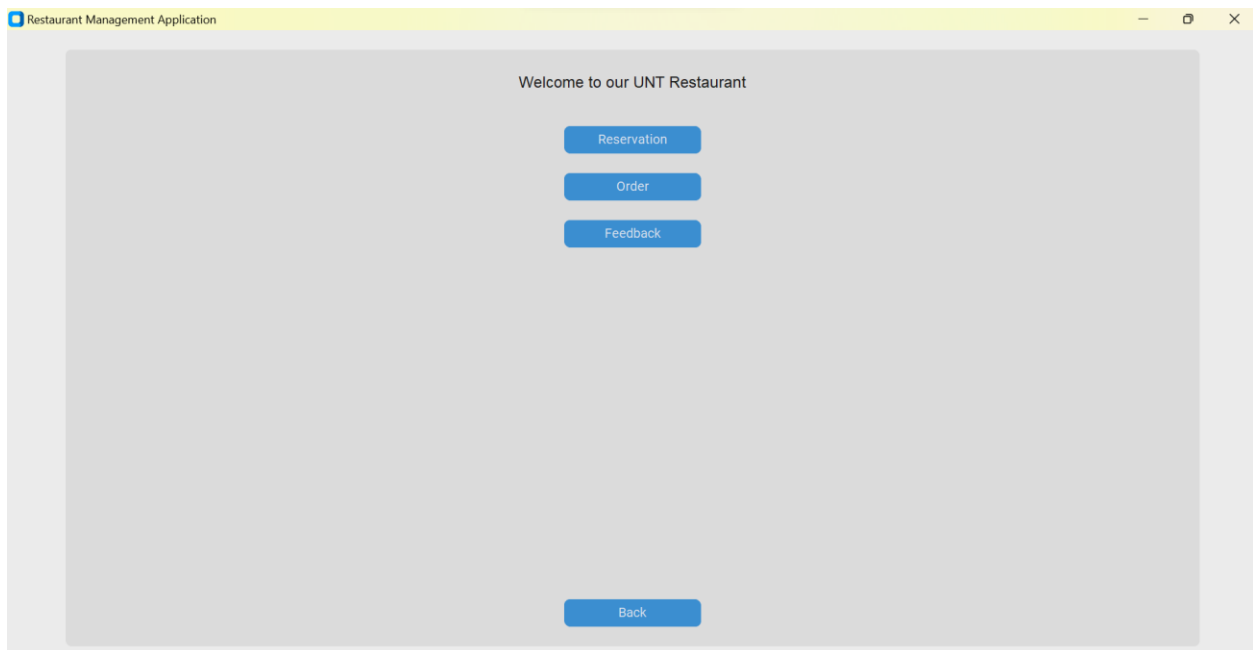
On Customer Screen when we enter id of an existing customer, user navigates to Restaurant Options Screen.



The screenshot shows a window titled "Restaurant Management Application". Inside, there is a label "Customer\_ID" above a text input field containing the number "11". Below the input field, there are two blue buttons: "Submit" and "Back".

### Restaurant Options Screen:

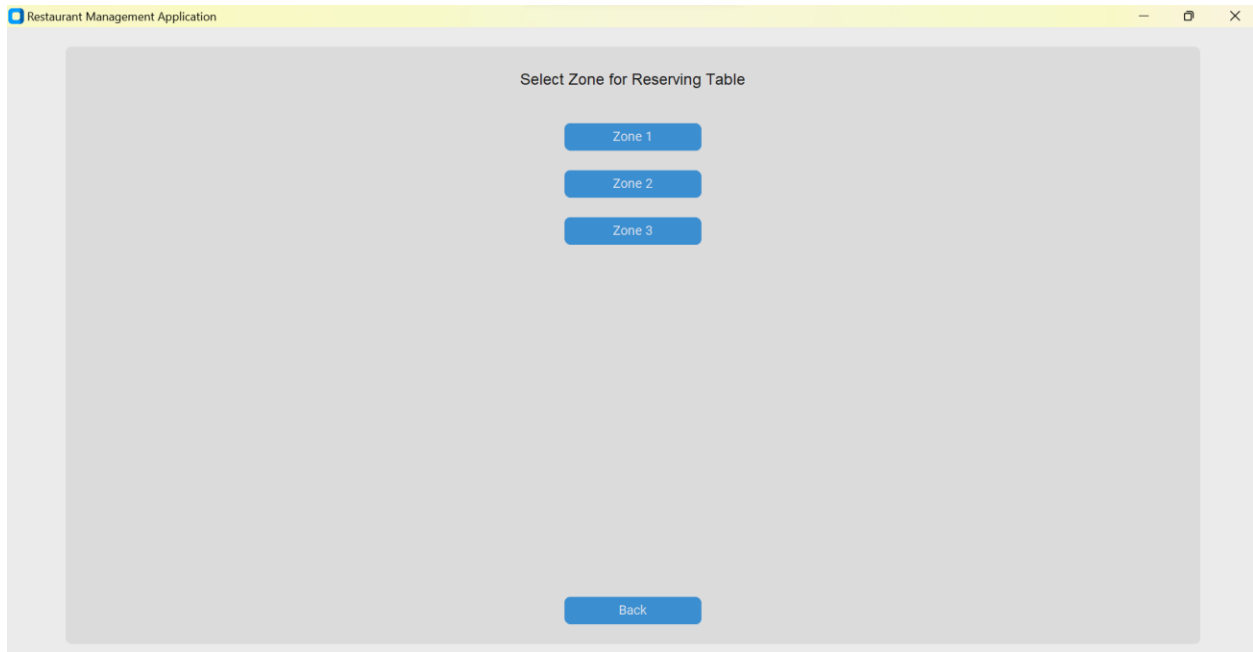
Here as said before, we have 3 buttons "Reservation", "Order", "Feedback".



The screenshot shows a window titled "Restaurant Management Application". Inside, there is a heading "Welcome to our UNT Restaurant". Below the heading, there are three blue buttons stacked vertically: "Reservation", "Order", and "Feedback". At the bottom of the screen, there is a single blue button labeled "Back".

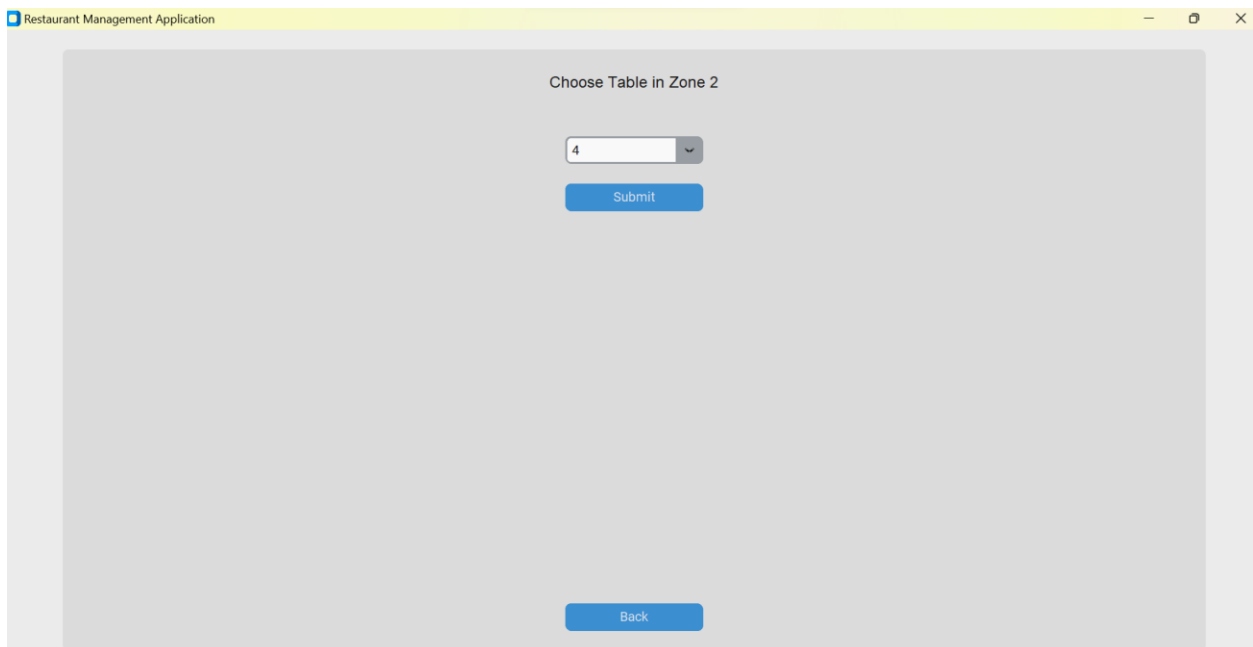
### Reservation Flow – Table Zones Screen:

By clicking on “Reservation” button, user is navigated to Table Zones Screen, where we have the options of Zones available in Restaurant to choose Tables.



### Table Selection Screen:

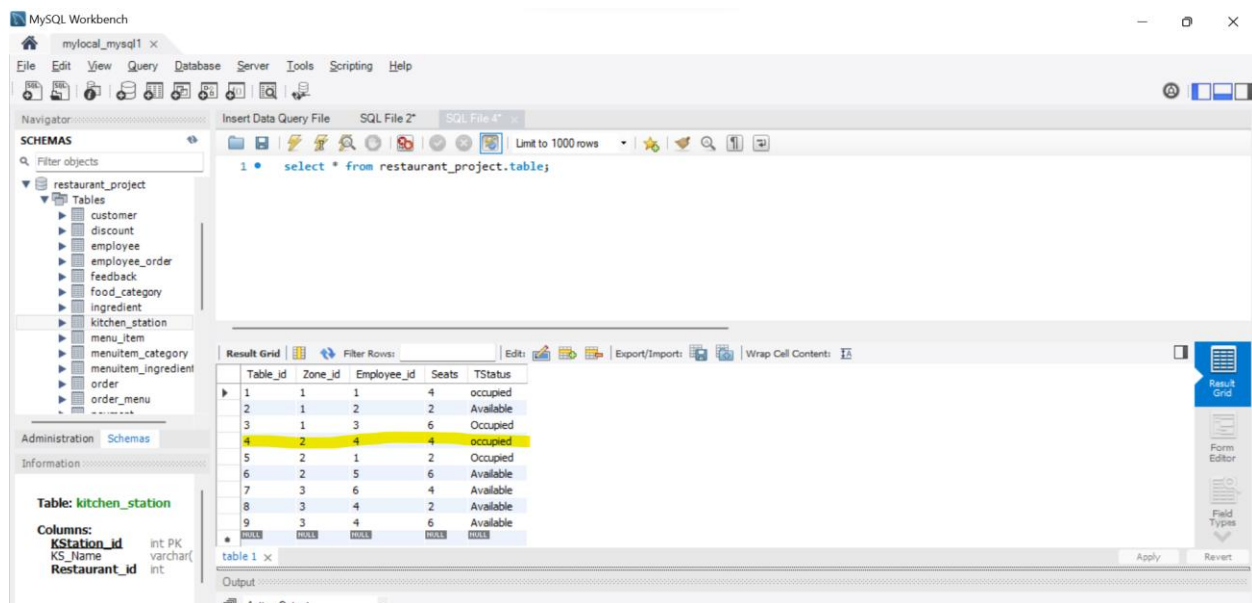
Clicking on one of the Zone buttons, user is navigated to Table Selection Screen, where it displays the dropdown box with the list of available tables (dynamic values) to reserve.

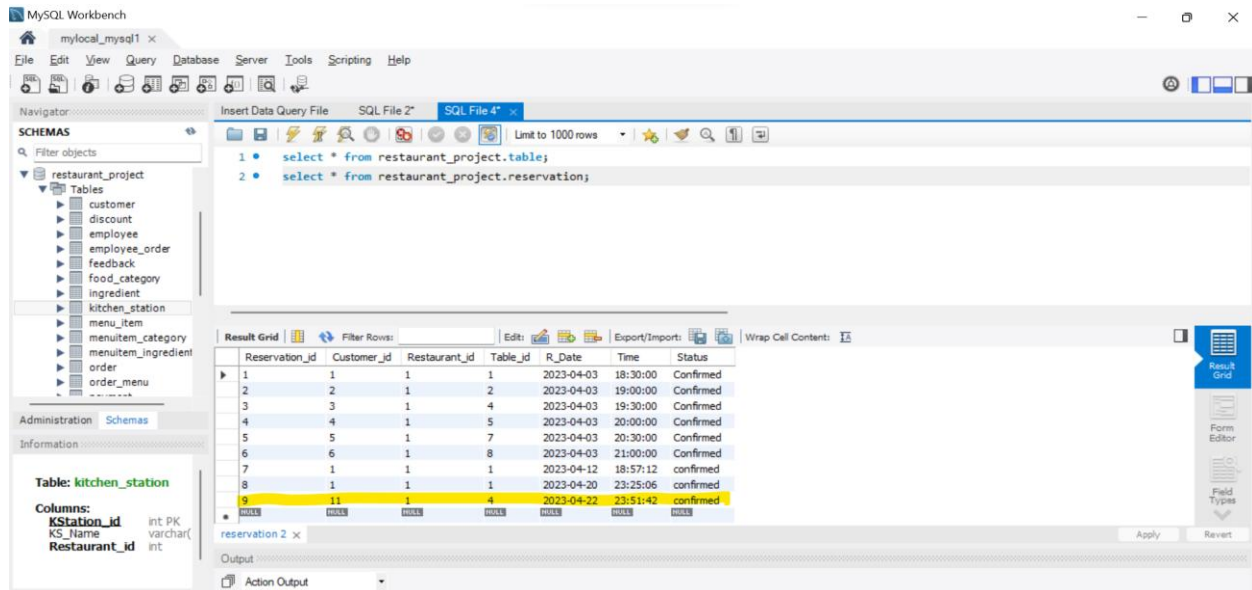




Clicking on Submit button after choosing a table, user is navigated back to Reservation Options Screen, updating the “Table” & “Reservation” tables in the database.

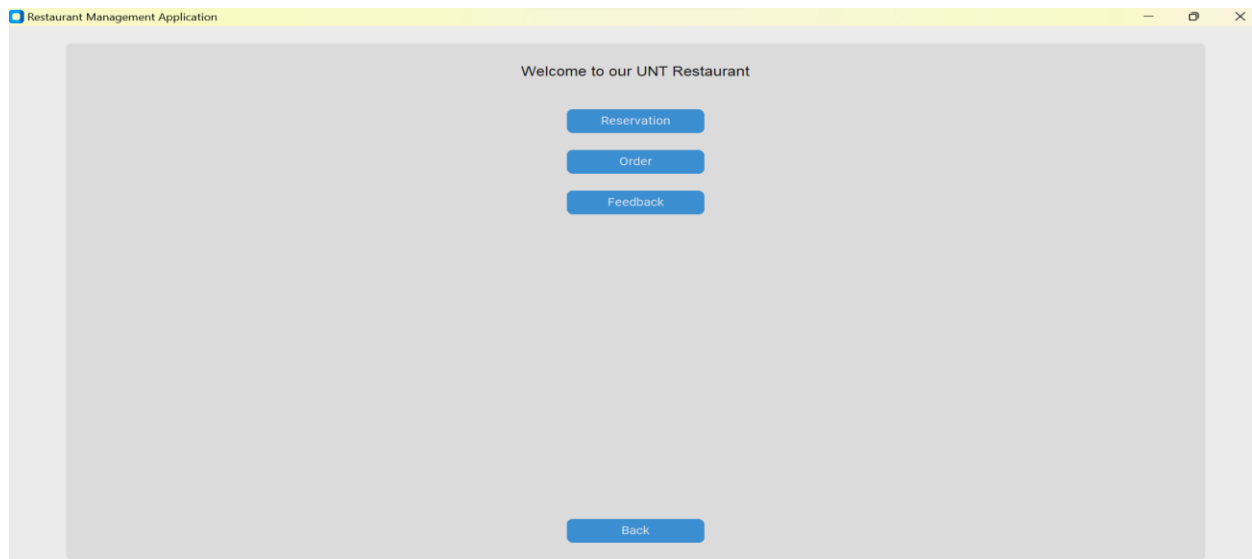
Below are the screenshots of the updated tables in the database in MySQL Workbench.





### Order Flow – Order Entry Details Screen:

On Clicking on “Order” button, user is navigated to Order Details Entry Screen, where Order id is displayed dynamically, and is displayed with dropdown boxes (dynamic values from database tables) for selecting details of Table id, Customer id, Discount id, and a Submit button.



Restaurant Management Application

Enter Order details for a Customer

Order id : 12

Table id:

1

Customer id:

1

Discount id:

1

Submit

Back

Restaurant Management Application

Enter Order details for a Customer

Order id : 12

Table id:

4

Customer id:

11

Discount id:

2

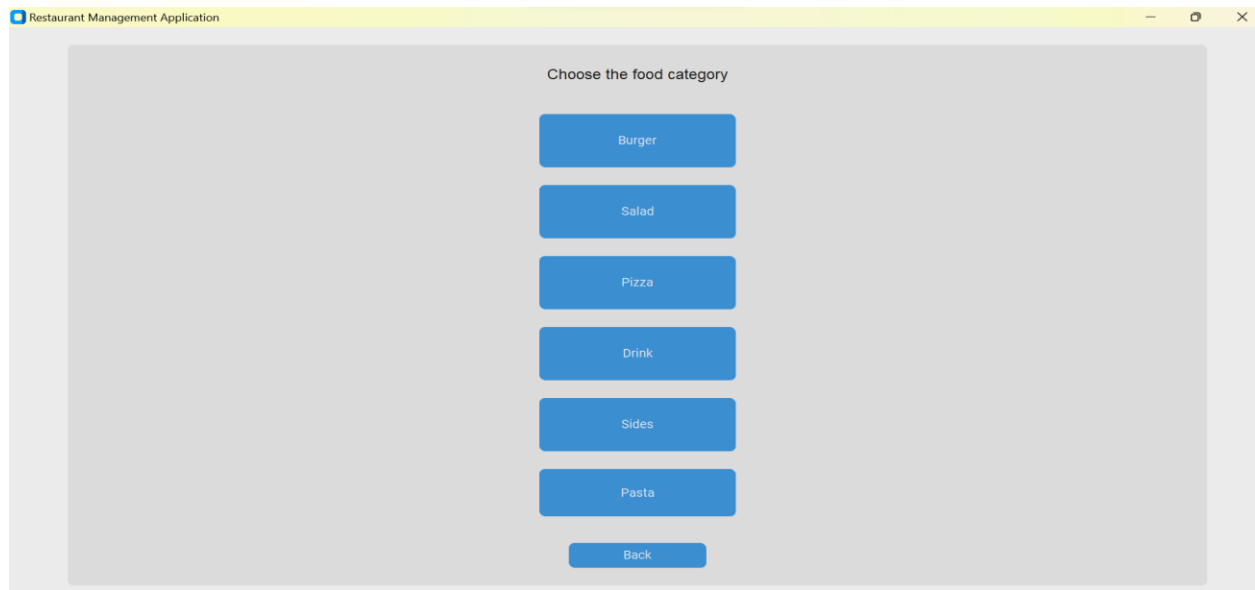
Submit

Back

Clicking on Submit button navigates to Food Category Options Screen .

### **Food Category Options Screen:**

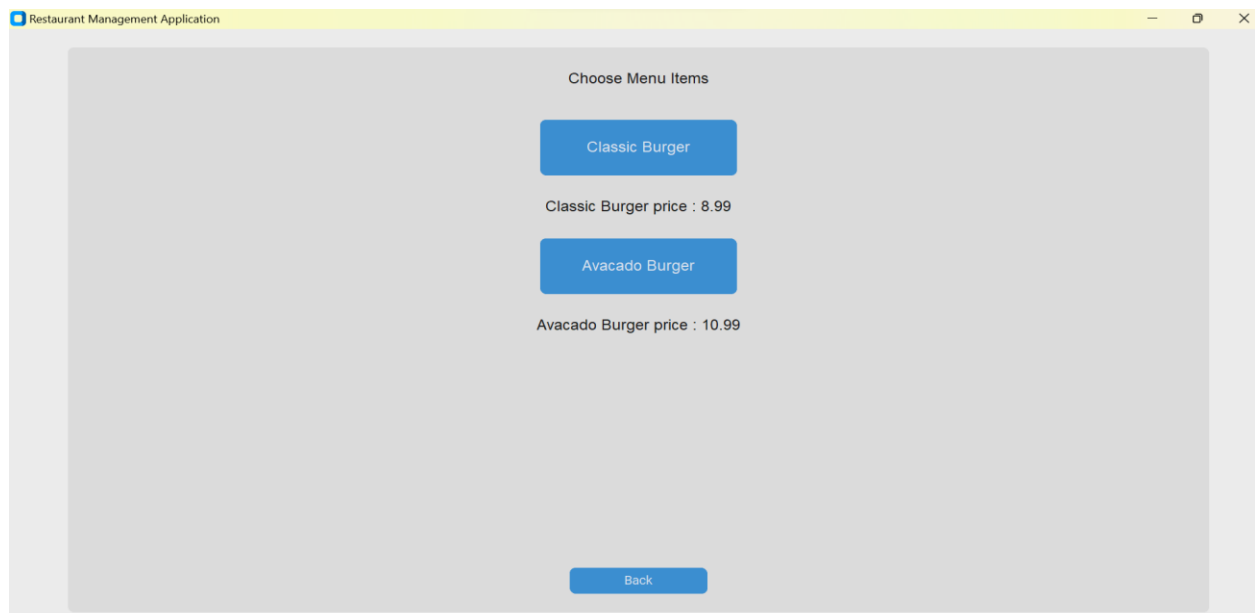
On this screen user is displayed with all the available food categories (dynamic, capturing from backend database table) as buttons.



On clicking on any of the food category buttons, user is navigated to related menu items screen to choose. Here for example, I'm clicking on "Burger" button.

#### **Menu Items Selection Screen:**

On this screen, the user is displayed with all the available menu items buttons (dynamic, capturing from backend database table) related to the selected food category as buttons, along with their prices. (Example, Burger category menu items screen)

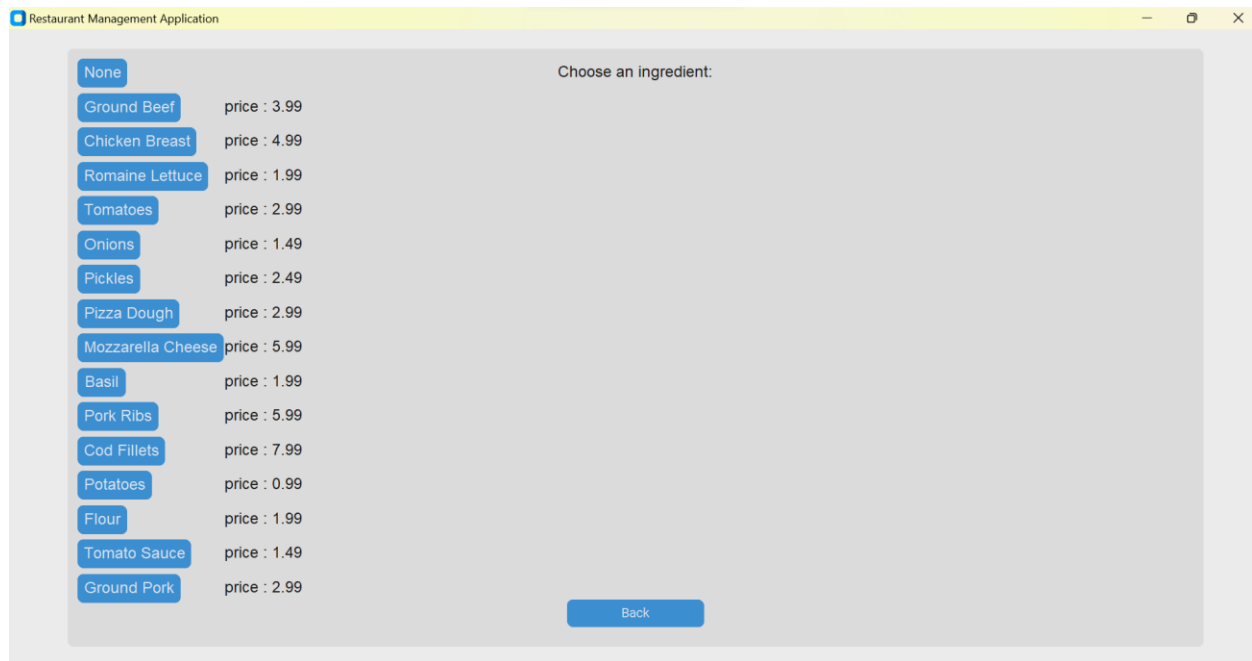


On selecting one item and clicking on it, navigates the user to Ingredients Screen to choose for the selected menu item. Here for example, I'm clicking on "Classic Burger" of price \$8.99.



### Ingredients Selection Screen:

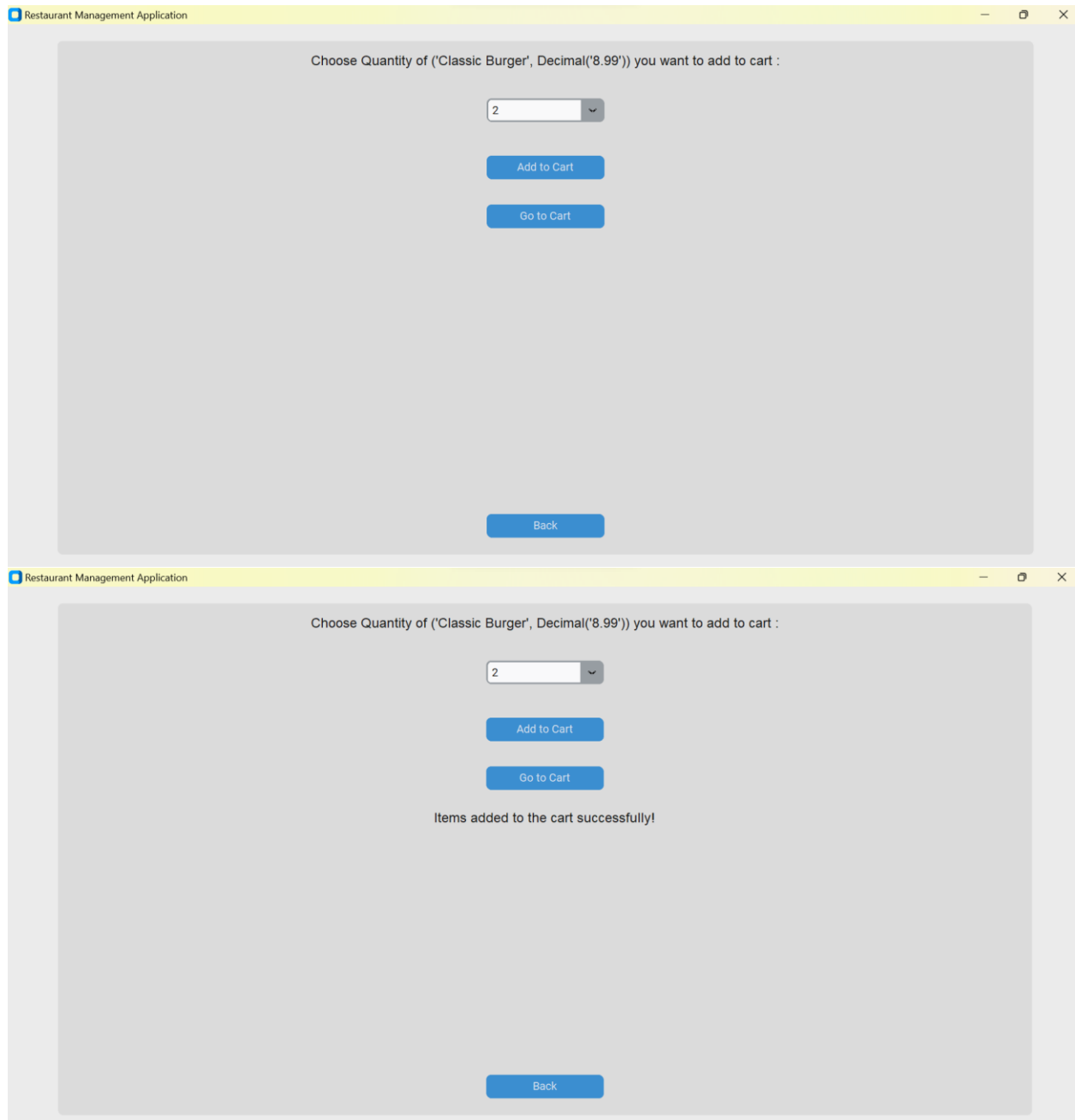
On this screen, the user is displayed with all the available ingredients options buttons (dynamic, capturing from backend database table) to add on the selected menu item, along with the price of each ingredient. (None option button is also displayed, so that if user doesn't want to add on any ingredient, he can choose None as the option).



On selecting one ingredient and clicking on it, navigates the user to Quantity selection Screen. Here for example, I'm clicking on "Chicken Breast" of price \$4.99.

### Quantity Selection Screen:

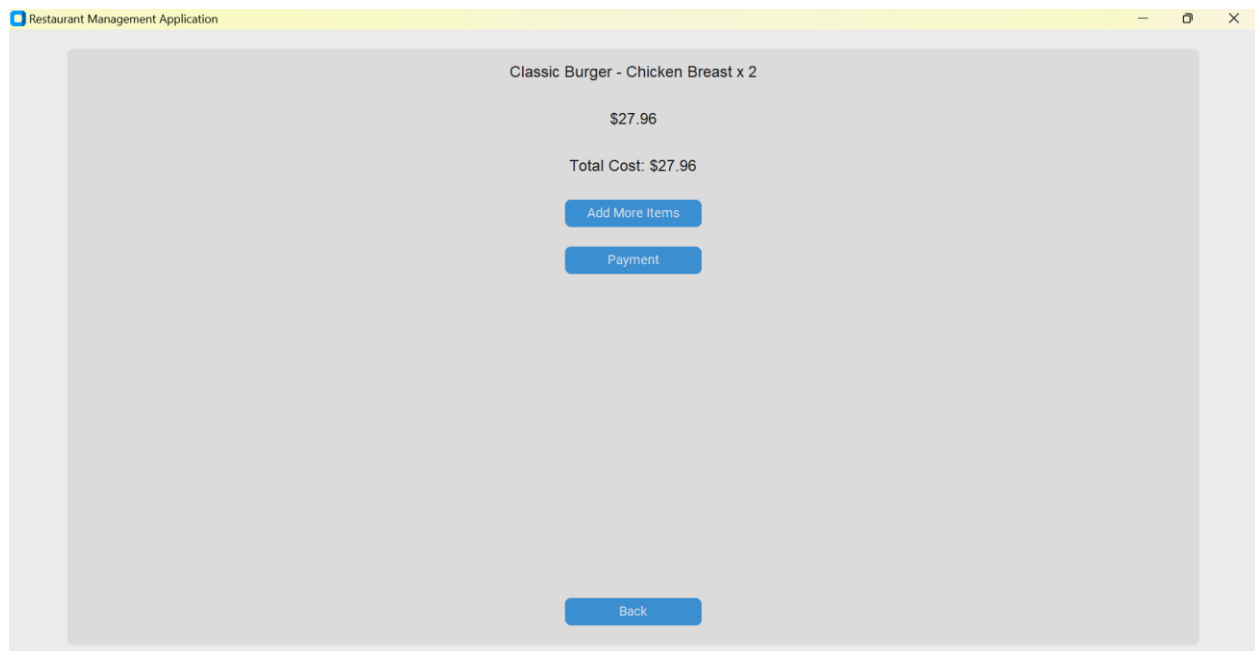
On this screen, we have an option to choose the number of items selected, from the dropdown list (with 1-10 options) to add to cart. After choosing the quantity, click on "Add to cart" button, which will add the items to cart list and display the same message on the screen confirming the user. After then, clicking on "Go to cart" button, user navigates to Cart Screen. (For example, I have chosen 2 as quantity)



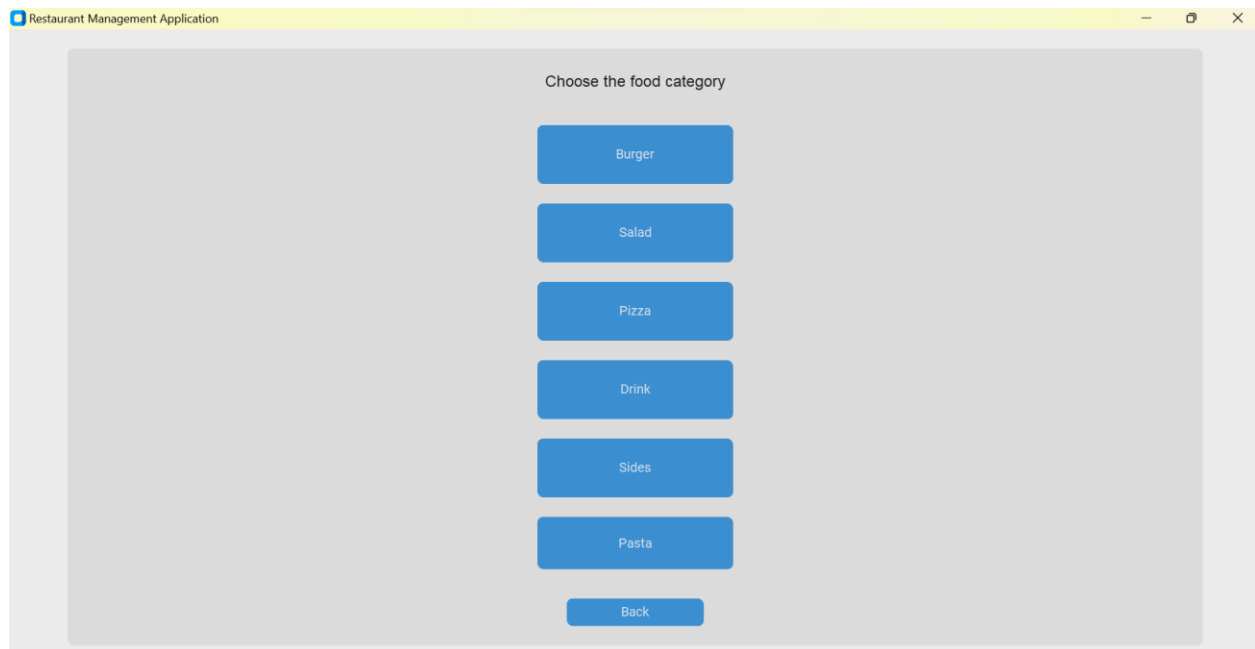
### Cart Screen:

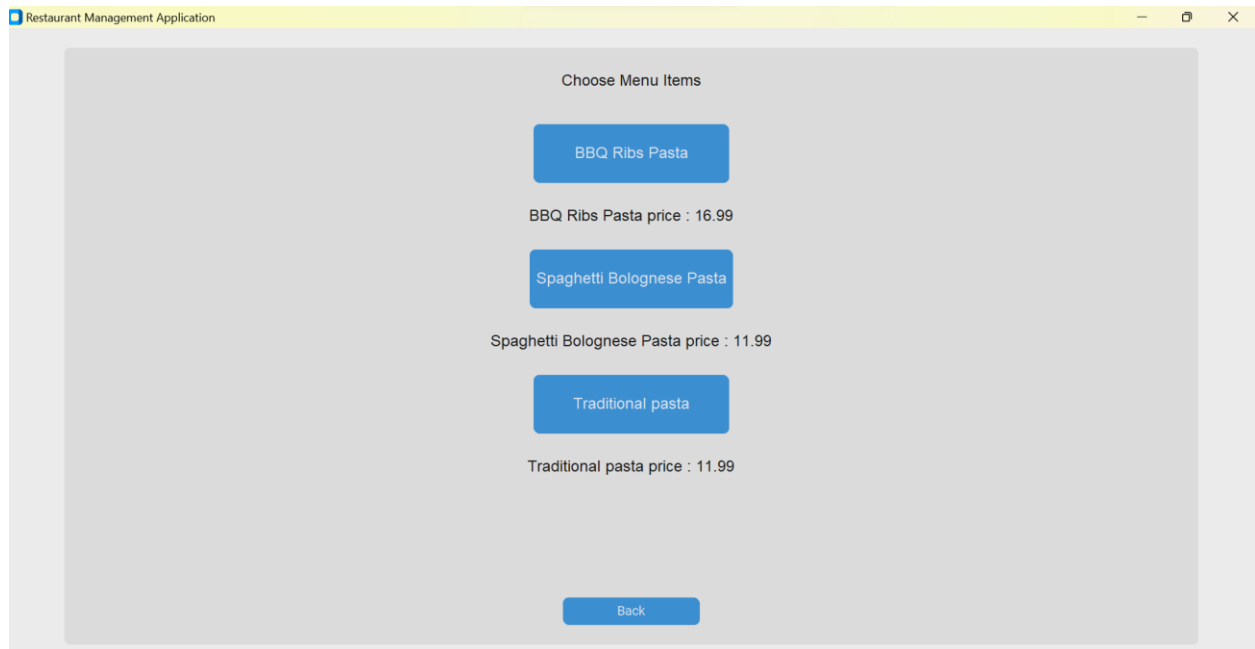
Cart Screen displays the list of items added to cart, along with their ingredients, quantity, and their total price. It also provides the option to add more items with the button "Add More Items", on clicking on it, navigates back to Food Category Screen. If the user is done with the selection of items into cart, it also provides button for making "Payment".

(Total price here is –  $(8.99+4.99)*2 = \$27.96$ )

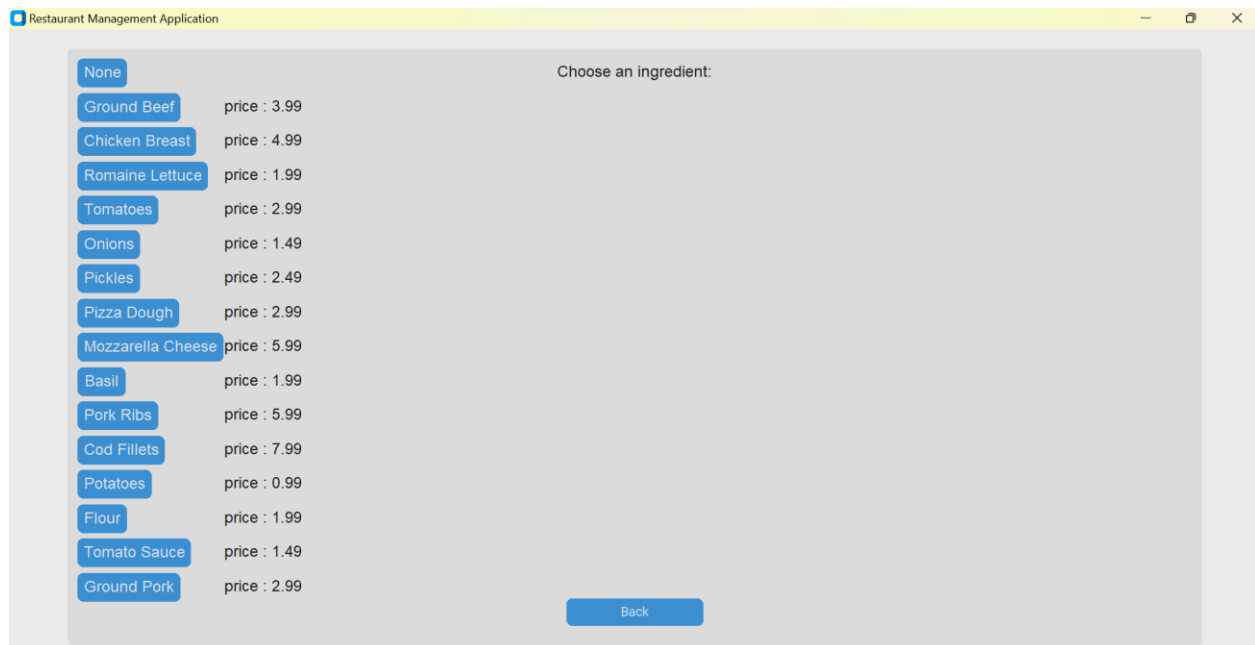


Let's go with the add more items flow and add one more item.

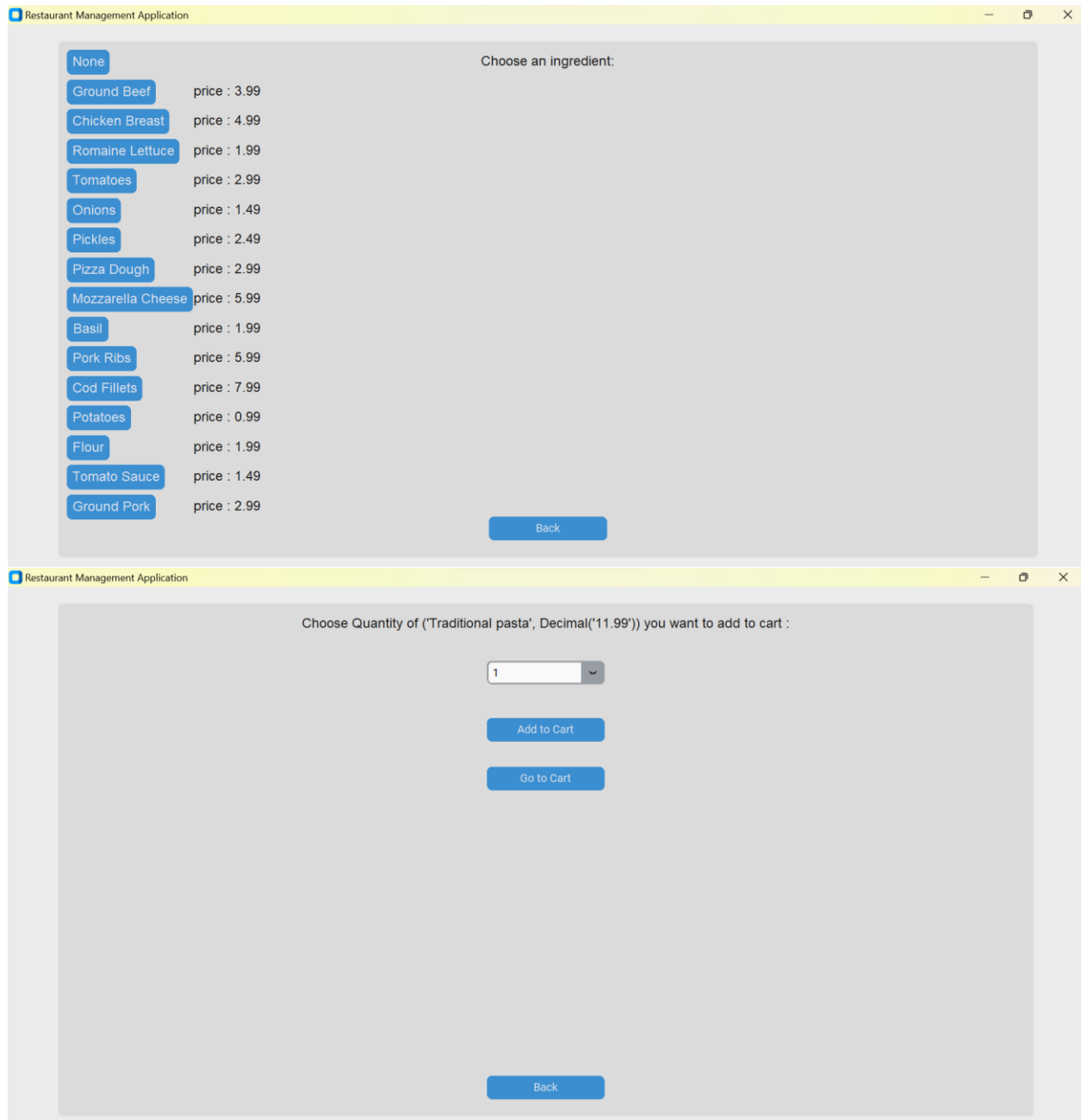




Selecting “Traditional Pasta” of price \$11.99

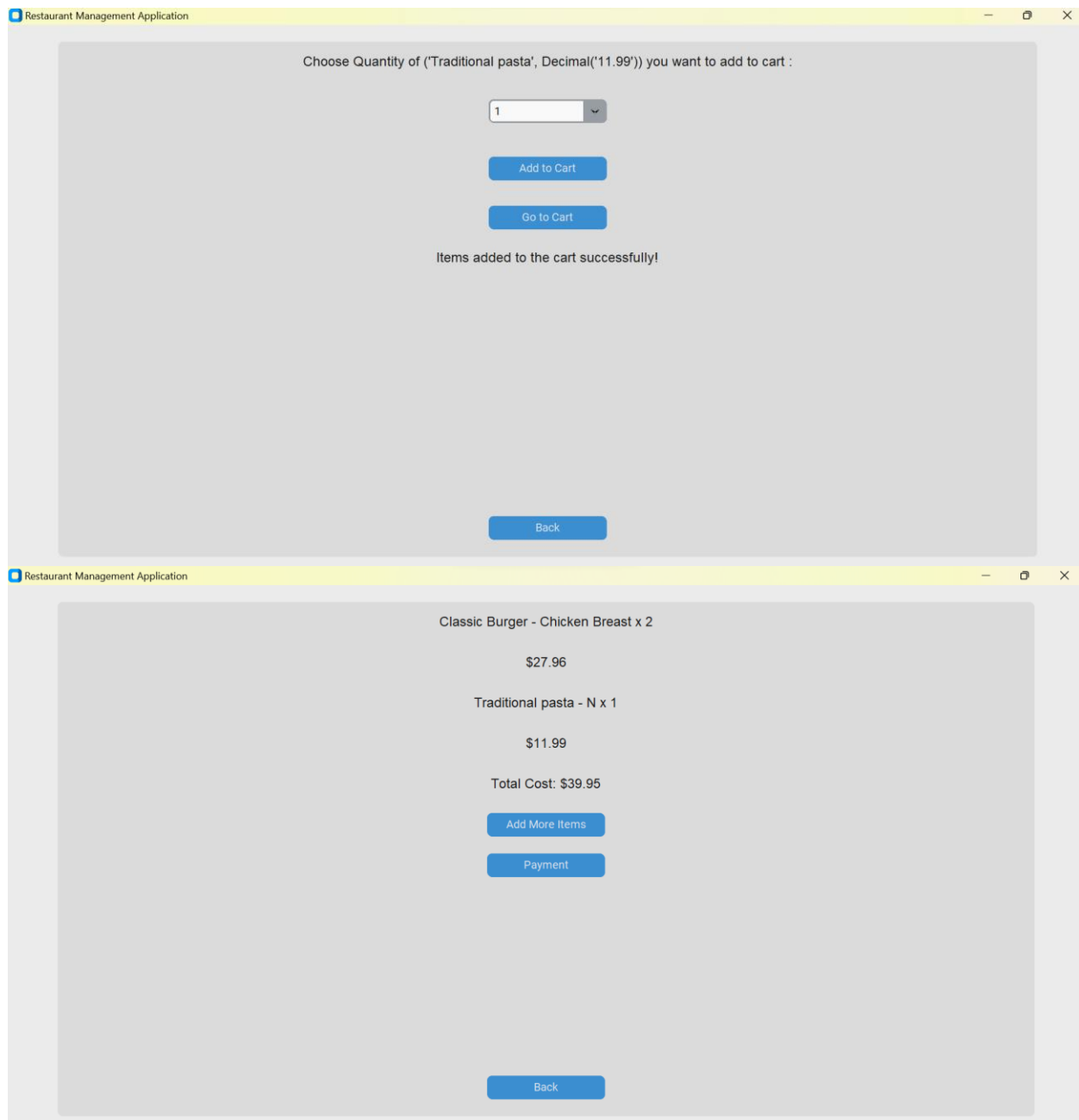


Selecting “None” as ingredient



Selecting quantity as 1

And add it to Cart



As we have selected None as ingredient and quantity as 1, item cost is \$11.99, and this price is added to the previous items cost and is displayed as Total Cost (Here it is  $\$27.96 + \$11.99 = \$39.95$ )

After clicking on "Payment" button it navigates to Payment Screen.

#### **Payment Screen:**

On Payment Screen, total amount of items is displayed and the discount which we have chosen on Order Details Entry Screen is also displayed. Considering these 2 values, user is displayed with the total amount to be paid. (Total amount of items – Discount =  $\$39.95 - \$2.00 = 37.95$ )

Also, a dropdown box with the list of payment options (Cash, Credit Card, Debit Card, Others) is displayed to choose the mode of payment.

The image shows a screenshot of a web application window titled "Restaurant Management Application". The main content area displays the following information:

- Total Amount: \$39.95
- Discount : \$2
- Total Amount to be paid : 37.95

Below this information is a dropdown menu currently showing "Cash". Underneath the dropdown are two blue buttons: "Submit" and "Return Back". At the bottom of the main content area is a "Back" button.

A separate inset shows the dropdown menu expanded, revealing the following options:

- Cash
- Credit Card
- Debit Card
- Others

After clicking on Submit button, user is displayed with the message as "Amount Paid Successfully!" and updates the "Order" and "Payment" table in the database.

Restaurant Management Application

Total Amount: \$39.95

Discount : \$2

Total Amount to be paid : 37.95

Cash

Submit

Return Back

Amount Paid Successfully!

Back

Below are the screenshots of the updated tables in the database in MySQL Workbench.

MySQL Workbench

mylocal\_mysql1 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

restaurant\_project

Tables

customer

discount

employee

employee\_order

feedback

food\_category

ingredient

kitchen\_station

menu\_item

menuitem\_category

menuitem\_ingredient

order

order\_menu

Administration Schemas

Information

Table: kitchen\_station

Columns:

KStation\_id int PK

KS\_Name varchar(

Restaurant\_id int

Insert Data Query File SQL File 2\*

Create a new function in the active schema in the connected server

1 • select \* from restaurant\_project.order;

Result Grid

Order_id	Table_id	Customer_id	Discount_id	Time	Status
4	4	4	NULL	2023-04-02 18:45:00	close
5	5	5	NULL	2023-04-02 19:00:00	close
6	6	6	NULL	2023-04-02 19:15:00	close
7	7	1	1	2023-04-02 19:30:00	Open
8	8	2	2	2023-04-02 19:45:00	Open
9	9	3	3	2023-04-02 20:00:00	Open
10	1	1	1	2023-04-21 21:28:59	Open
11	1	1	1	2023-04-22 00:44:01	Close
12	4	11	2	2023-04-23 00:54:14	Close

order 3 x

Output

Action Output

Message

Duration / Fetch

MySQL Workbench

mylocal\_mysql1 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

restaurant\_project

Tables

customer

discount

employee

employee\_order

feedback

food\_category

ingredient

kitchen\_station

menu\_item

menuitem\_category

menuitem\_ingredient

order

order\_menu

Administration Schemas

Information

Table: kitchen\_station

Columns:

KStation\_id int PK

KS\_Name varchar(

Restaurant\_id int

Insert Data Query File SQL File 4\*

Limit to 1000 rows

1 • select \* from restaurant\_project.order;

2 • select \* from restaurant\_project.payment;

Result Grid

Payment_id	Customer_id	Order_id	Order_Amount	Payment_Time	Payment_Method
1	1	1	50.00	2023-04-02 19:30:00	Cash
2	2	2	35.00	2023-04-02 20:00:00	Credit Card
3	3	3	75.00	2023-04-02 20:30:00	Debit Card
4	4	4	42.00	2023-04-02 21:00:00	Others
5	1	11	41.95	2023-04-22 00:44:02	Credit Card
6	11	12	37.95	2023-04-23 00:54:14	Cash

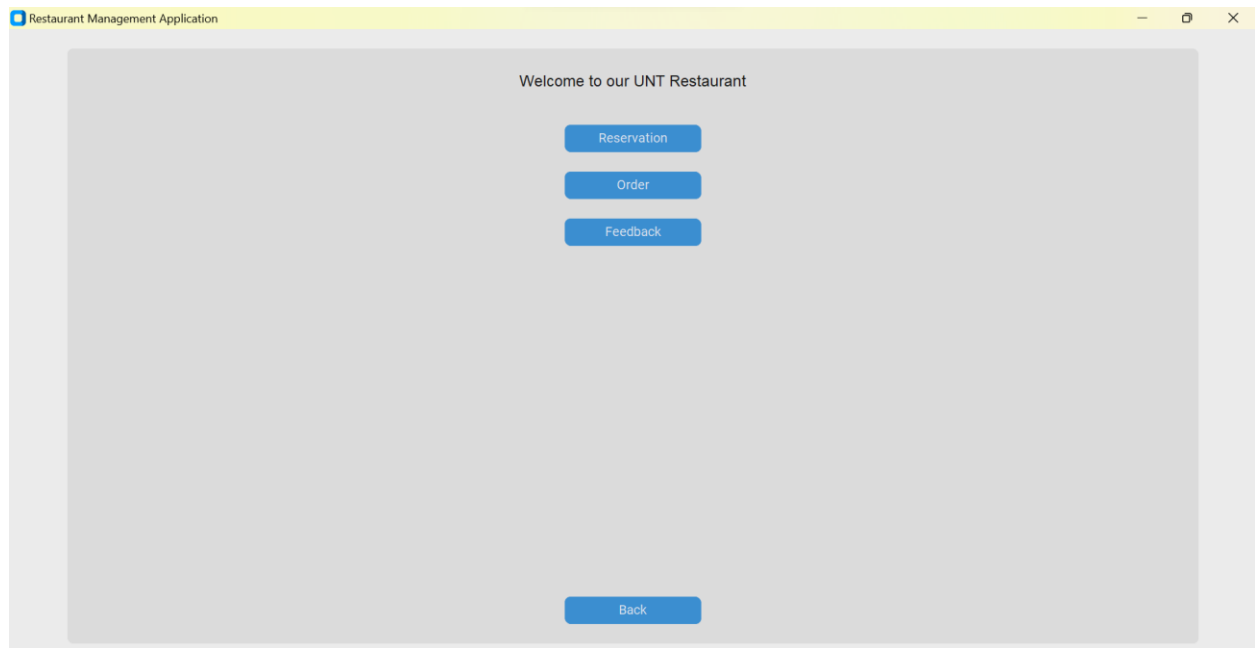
payment 4 x

Output

Action Output



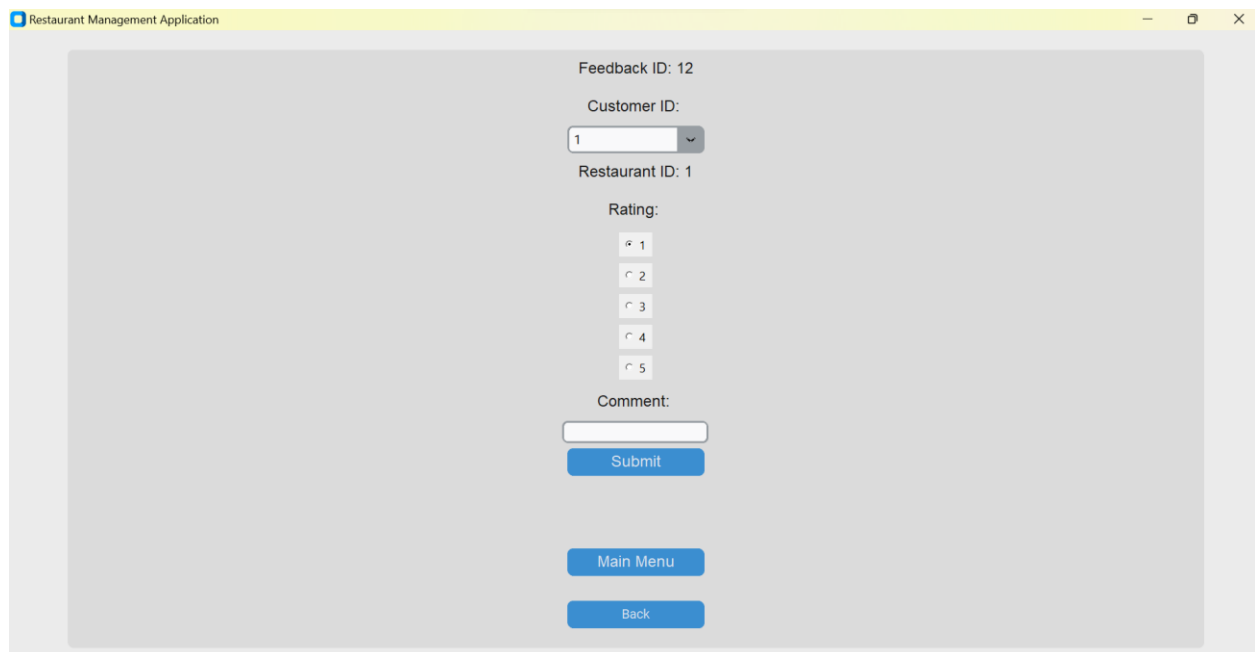
Clicking on “Return Back” button, user is navigated to “Restaurant Options” Screen



The screenshot shows a web application window titled "Restaurant Management Application". The main content area has a light gray background and contains the text "Welcome to our UNT Restaurant" at the top. Below this text are three blue buttons stacked vertically: "Reservation", "Order", and "Feedback". At the bottom of the content area is a blue button labeled "Back".

#### Feedback Screen:

Click on “Feedback” button on Restaurant Options Screen, navigates user to “Feedback Screen”. Feedback Screen is displayed with dynamic Feedback id, Customer id dropdown box to choose with the list of available customers, Restaurant ID, Rating Radio Buttons to choose (range from 1-5), Comment entry box.



The screenshot shows the "Feedback Screen" within the "Restaurant Management Application" window. The form contains the following elements: "Feedback ID: 12" at the top; "Customer ID:" followed by a dropdown menu showing "1"; "Restaurant ID: 1"; "Rating:" followed by five radio buttons labeled "1", "2", "3", "4", and "5"; "Comment:" followed by a text input field; a blue "Submit" button; a blue "Main Menu" button; and a blue "Back" button at the bottom.

Feedback ID: 12

Customer ID: 11

Restaurant ID: 1

Rating: 5

Comment: Delicious food

Submit

Main Menu

Back

On clicking on Submit button, user is displayed with the message as “Feedback stored successfully!”, also updating the Feedback table in the database.

Below is the screenshot of the updated table in the database in MySQL Workbench.

MySQL Workbench

mylocal\_mysql1 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

restaurant\_project

Tables

- customer
- discount
- employee
- employee\_order
- feedback
- food\_category
- ingredient
- kitchen\_station
- menu\_item
- menuitem\_category
- menuitem\_ingredient
- order
- order\_menu

Administration Schemas

Information

Table: kitchen\_station

Columns:

- KStation\_id int PK
- KS\_Name varchar(255)
- Restaurant\_id int

Insert Data Query File SQL File 2\* SQL File 4\*

Limit to 1000 rows

1 • select \* from restaurant\_project.feedback;

Result Grid

Feedback_id	Customer_id	Restaurant_id	Rating	Comment
4	4	1	5	The burgers were delicious, and the service wa...
5	5	1	4	The pasta was good, but the service was a bit s...
6	6	1	2	The food was terrible, and the service was rude.
7	1	1	4	Good
8	1	1	4	Good
9	1	1	3	ok
10	1	1	3	cool
11	1	1	3	yeah
12	11	1	5	Delicious food

feedback 6 x

Output

Apply Revert

Clicking on “Main Menu” button, user is navigated back to Restaurant Options Screen.

### Employee Flow Screens:

As discussed before, because of critical time constraints and tasks, in this project we have concentrated much on Customer flows than Employee flows. In Employee flow, we have just implemented the screens to display the “Restaurant Related” and “Customers Orders Data” tables.



### Restaurant Related Screen:

Displays the dropdown box with the list of tables. Here for example, I'm choosing "Employee" and "Feedback" tables to display the data to the user.

Restaurant Management Application

Employee

Submit

Back

Employee

Employee

Kitchen\_Station

Feedback

Supplier

Purchase\_Order

Purchase\_Item

Restaurant Management Application

Employee_Id	Employee_Name	EPhone_Number	EEmail	EAddress	Role	Salary	KStation_Id	Restaurant_Id
1	John Smith	123-456-7890	john.smith@restaurant1.com	123 Main St	Manager	50000.00	None	1
2	Jane Doe	555-555-5555	jane.doe@restaurant1.com	456 Elm St	Server	20000.00	None	1
3	Samantha Brown	999-999-9999	samantha.brown@restaurant1.com	789 Oak St	Chef	60000.00	1	1
4	Michael Johnson	111-111-1111	michael.johnson@restaurant1.com	1010 Broad St	Host	18000.00	None	1
5	Sarah Lee	222-222-2222	sarah.lee@restaurant1.com	1313 5th Ave	Chef	60000.00	2	1
6	Peter Green	333-333-3333	peter.green@restaurant1.com	1212 6th Ave	Chef	60000.00	3	1
7	Alex Davis	444-444-4444	alex.davis@restaurant2.com	222 Main St	Manager	50000.00	None	1
8	Emily Wilson	777-777-7777	emily.wilson@restaurant2.com	333 Elm St	Server	20000.00	None	1
9	Olivia Lee	999-999-9999	olivia.lee@restaurant2.com	555 Broad St	Host	18000.00	None	1
10	Jessica Smith	666-666-6666	jessica.smith@restaurant3.com	444 Elm St	Server	20000.00	None	1

Back

Restaurant Management Application

Feedback

Submit

Back

Restaurant Management Application

Feedback_id	Customer_id	Restaurant_id	Rating	Comment
1	1	1	4	The food was great, but the service could have been better.
2	2	1	5	The pizza was amazing, and the service was top-notch!
3	3	1	3	The tacos were average, and the service was slow.
4	4	1	5	The burgers were delicious, and the service was friendly.
5	5	1	4	The pasta was good, but the service was a bit slow.
6	6	1	2	The food was terrible, and the service was rude.
7	1	1	4	Good
8	1	1	4	Good
9	1	1	3	ok
10	1	1	3	cool
11	1	1	3	yeww
12	11	1	5	Delicious food

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### Customers Orders Data Screen:

Displays the dropdown box with the list of tables . Here for example, I'm choosing "Customer" and "Payment" tables to display the data to the user.

Restaurant Management Application

Customer

Submit

Back

Customer

Customer

Table

Reservation

Discount

Order

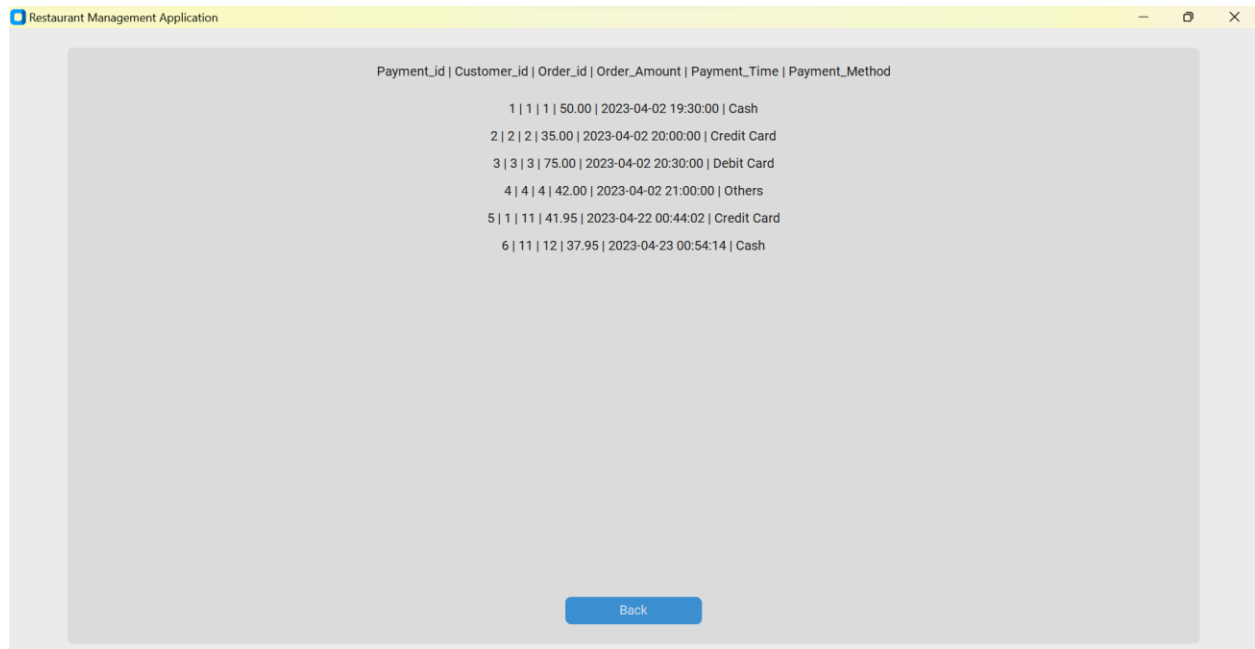
Payment

Feedback

Restaurant Management Application

Customer_id	Customer_Name	CPhone_Number	CEmail	CAddress
1	John Doe	123-456-7890	johndoe@example.com	123 Main St
2	Jane Smith	555-555-5555	janesmith@example.com	456 Elm St
3	Bob Johnson	999-999-9999	bob@example.com	789 Oak St
4	Alice Brown	111-111-1111	alice@example.com	456 Maple St
5	Tom Wilson	222-222-2222	tom@example.com	789 Pine St
6	Samantha Lee	333-333-3333	samantha@example.com	123 Cedar St
7	Harini	1231231234	jbjk@jib.com	578 gg v
8	Haone	4675966899	hvyhv@ibj.com	6578 gyug b
9	vyshu	354678876	xfht@hhj.com	fv68bvjh
10	vjh	659868788	gvghkf@hfyuf.com	765 hgfyh h
11	Harini	8974686479	hkama@gmail.com	794 Avenue B

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Payment_Id	Customer_Id	Order_Id	Order_Amount	Payment_Time	Payment_Method
1	1	1	50.00	2023-04-02 19:30:00	Cash
2	2	2	35.00	2023-04-02 20:00:00	Credit Card
3	3	3	75.00	2023-04-02 20:30:00	Debit Card
4	4	4	42.00	2023-04-02 21:00:00	Others
5	1	11	41.95	2023-04-22 00:44:02	Credit Card
6	11	12	37.95	2023-04-23 00:54:14	Cash

### **Future Implementations:**

In this Restaurant Management System Application, as future enhancement, we can implement Employee Management and Supplier Inventory Management related screens, where Owner or Manager of the Restaurant can add, modify and delete the data related to Employees, Suppliers, Supplier Orders, Food related Menu.