

# Title: Food Ordering And Delivery Management System

**Course:** DATABASE MANAGEMENT SYSTEM (UE23CS351A)

**Project Level:** Experiential Learning: Level 2 (Mini Project)

**Team Members:**

- Student 1: SIRI S ARADHYA — PES1UG23CS906
- Student 2: YOGITHA A S — PES1UG23CS901

**Institution:** PES University

**Submission Date:** 1<sup>st</sup> NOV 20205

## 1. DESCRIPTION

**Abstract:** This project implements a Food Ordering System using MySQL as backend and Streamlit as the frontend. The system supports user registration/login (hashed passwords), restaurant browsing, menu management, cart functionality, order placement (stored procedure), automatic inventory updates (triggers), payment tracking, and user reviews. The application demonstrates normalized relational design, stored procedures, triggers, functions, and analytical queries—meeting the DBMS mini-project requirements.

## 2. User Requirement Specification

### 2.1 Purpose of the Project

The purpose of this project is to design and develop a Food Ordering System that enables users to browse restaurants, view menus, place orders, and provide feedback, while allowing administrators to manage restaurants, menu items, and customer orders efficiently.

This project aims to simulate the functionality of popular food delivery platforms like Swiggy or Zomato, providing an interactive web-based platform integrated with a relational database. It demonstrates how database concepts such as normalization, referential integrity, stored procedures, and triggers can be implemented effectively in a real-world business scenario.

The system provides an end-to-end food ordering experience — from restaurant browsing and cart management to order placement and payment tracking — all supported by robust backend database operations.

### 2.2 Scope of the Project

The scope of this project covers both user-facing and administrator-facing functionalities.

- **For Users:**  
The system allows registration and secure login using password hashing, browsing multiple restaurants and their menus, adding desired food items to a cart, placing orders, selecting payment methods, and submitting reviews with ratings.
- **For Administrators:**  
The system provides a dashboard to manage restaurants, update or delete menu items, track order progress, and update order statuses.

The project ensures data consistency and automation using triggers, procedures, and functions. It demonstrates complete CRUD (Create, Read, Update, Delete) operations across all entities and enforces business rules such as inventory control and order status history.

This application is scalable and can be extended further with delivery tracking, user analytics, and coupon-based discount systems, making it a comprehensive database-driven business solution.

2.3 Detailed Description of the Project

The Food Ordering System is implemented using MySQL as the backend database and Streamlit (Python) as the frontend interface. It integrates multiple interrelated tables that represent real-world entities such as users, restaurants, menu items, orders, payments, and reviews.

- The database schema includes tables: Users, Restaurants, Menu, Orders, Order\_Items, Cart, Payments, Coupons, Delivery\_Partners, Reviews, and Order\_Status\_History.
- The database is normalized and uses foreign key constraints to maintain referential integrity among entities.
- Stored Procedures automate key operations such as order placement and review submission (PlaceOrderFromCart, AddReview).
- Functions such as GetOrderTotal and GetRestaurantAvgRating help compute derived data for business insights.
- Triggers handle automatic updates — adjusting stock levels after each order, recalculating totals, and maintaining a detailed log of order status changes.
- The Streamlit frontend provides a graphical user interface with interactive features for both customers and administrators. Users can browse restaurants with images, view menu categories, and interactively manage their cart, while admins can view and update data seamlessly.

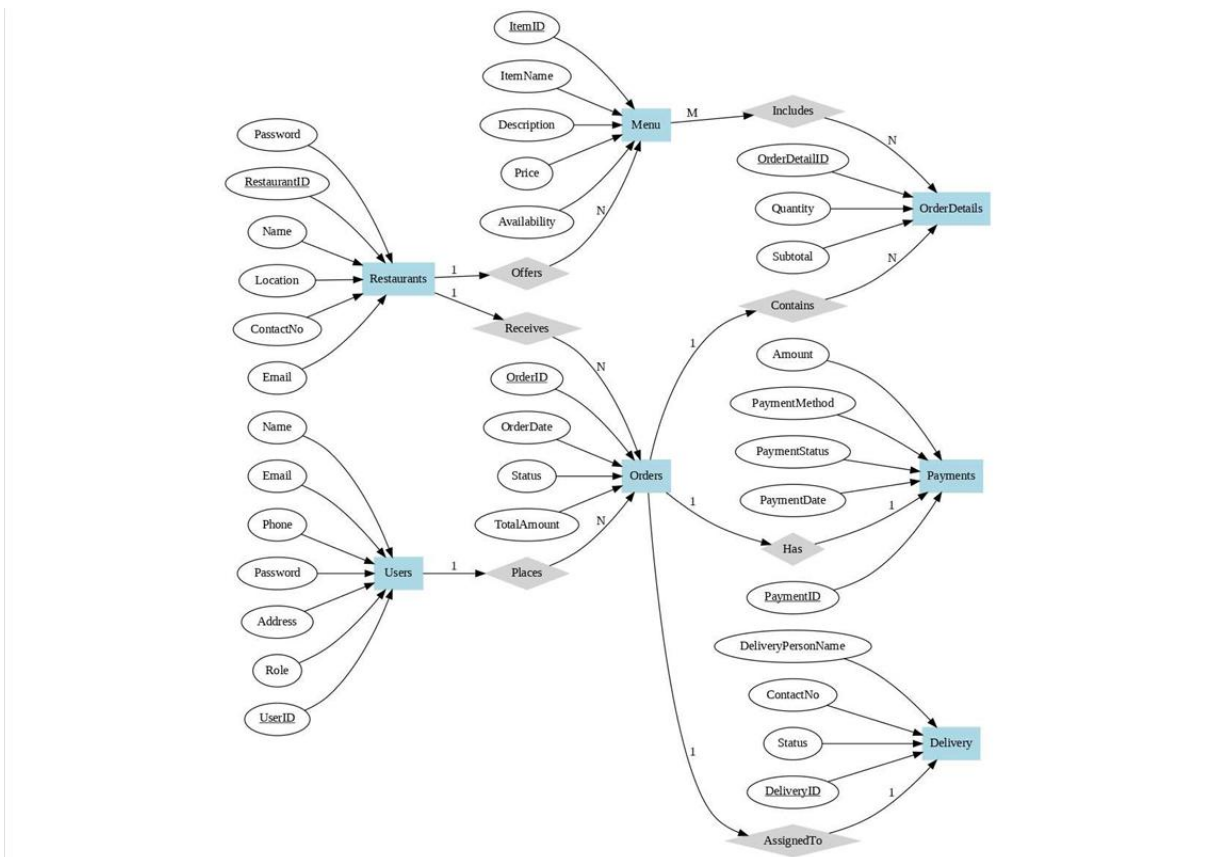
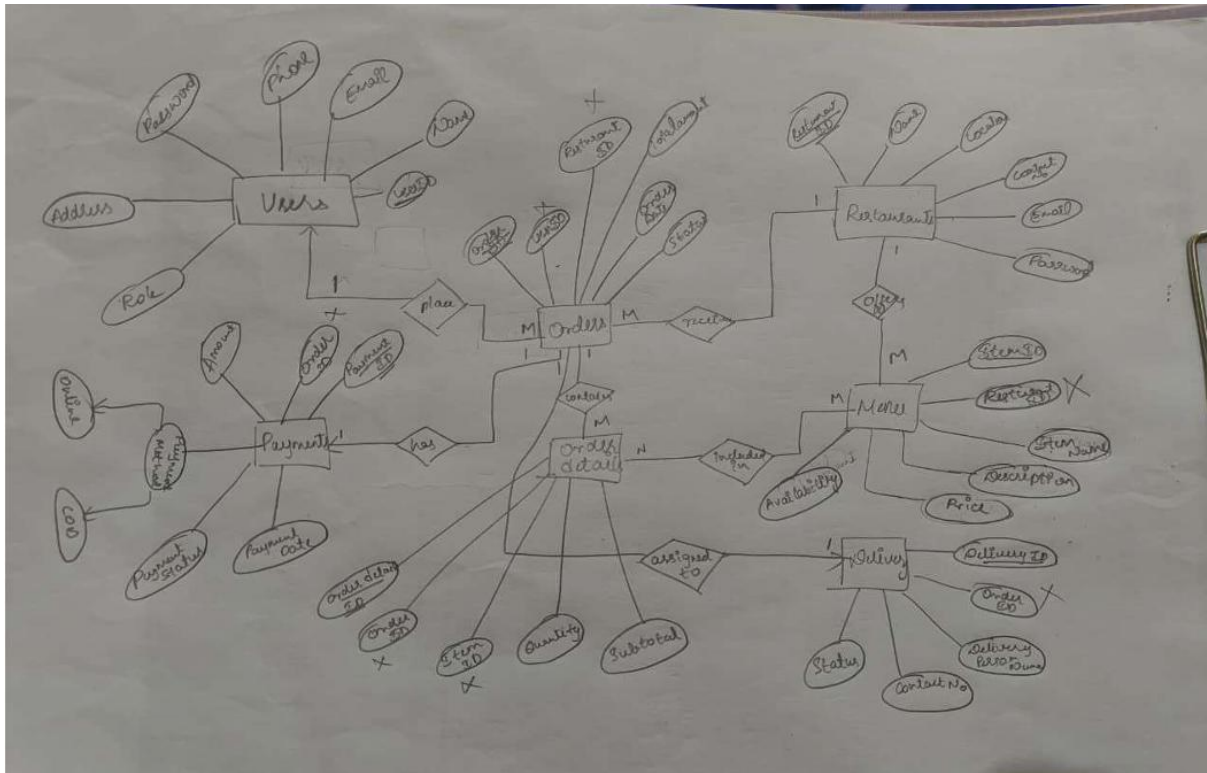
The system thus demonstrates a complete data flow from front-end operations to backend database transactions, ensuring accuracy, security, and ease of management.

2.4 Functional Requirements

Sl. No.	System Functionality	Description
1	User Registration & Login	Allows users to sign up with name, email, and password. Passwords are hashed using SHA-256 for secure authentication.
2	Restaurant Browsing	Displays a list of restaurants with details and images. Users can select a restaurant to view its menu.
3	Menu Display & Filtering	Fetches menu items dynamically from the database and categorizes them (e.g., Pizza, Drinks, Desserts).
4	Add to Cart	Enables users to add menu items to their cart with a specified quantity. Duplicate entries are restricted by unique constraints.

<b>5</b>	<b>View / Modify Cart</b>	Displays all items in the user's cart with quantities, prices, and totals. Allows removal of items.
<b>6</b>	<b>Place Order</b>	Executes stored procedure PlaceOrderFromCart to create an order, move items from the cart, and compute total amount.
<b>7</b>	<b>Payment Processing</b>	Updates payment details (method and amount) for each order. Supports Credit Card, Debit Card, UPI, Wallet, and Cash.
<b>8</b>	<b>Automatic Stock Update (Trigger)</b>	Triggers automatically adjust Menu.stock when items are ordered or deleted. Prevents negative stock levels.
<b>9</b>	<b>Order Status Tracking</b>	Order statuses are updated by users/admins. A trigger logs every change in Order_Status_History.
<b>10</b>	<b>Review Submission</b>	Users can submit ratings and comments through the AddReview procedure. Validation ensures ratings between 1 and 5.
<b>11</b>	<b>Admin Dashboard</b>	Admins can add/delete restaurants, manage menu items, and update order statuses from a single interface.
<b>12</b>	<b>Coupon Management</b>	Coupon codes provide percentage-based discounts with validation of expiry date and max discount amount.
<b>13</b>	<b>Data Analytics &amp; Insights</b>	Functions and queries provide insights such as average restaurant ratings.
<b>14</b>	<b>Security &amp; Integrity</b>	The system ensures data consistency through foreign keys, constraints, and controlled SQL operations in the application layer.

## 2.5 ER Diagram and Representation Schema



## Representation Schema For web based Food delivery :-

Users :

User ID	Name	Email	Phone	Password	Address	Role
---------	------	-------	-------	----------	---------	------

Restaurants :

Restaurant ID	Name	Location	Contact info	Email	Password
---------------	------	----------	--------------	-------	----------

Menu :

Item ID	Item Name	Description	Price	Availability	Restaurant ID
---------	-----------	-------------	-------	--------------	---------------

Order :

Order ID	User ID	Restaurant ID	Order Date	Status	Total Amt
----------	---------	---------------	------------	--------	-----------

Order Details :

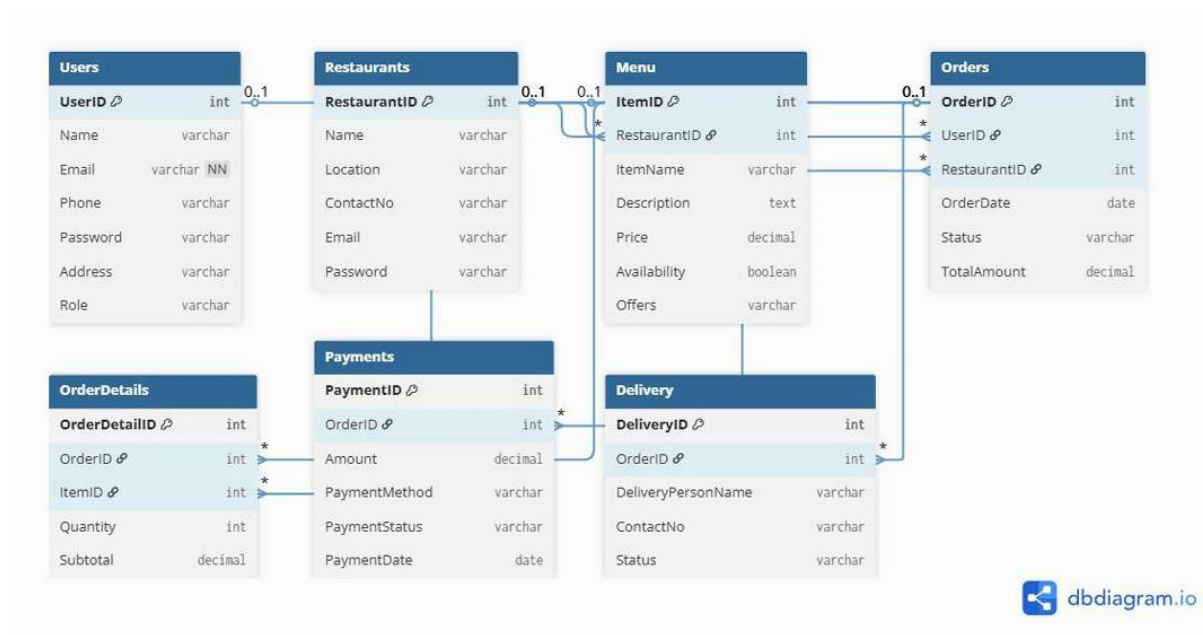
OrderDetail ID	Order ID	Item ID	Quantity	Sub total
----------------	----------	---------	----------	-----------

Payments :

Payment ID	Order ID	Amount	Payment Method	Payment Status	Payment Date
------------	----------	--------	----------------	----------------	--------------

Delivery :

Delivery ID	Order ID	Delivery Person Name	Contact No	Status
-------------	----------	----------------------	------------	--------



### 3. List of Softwares/Tools/Programming languages used

Sl. No.	Software / Tool / Language	Purpose / Description
1	MySQL 8.0	Backend relational database used to create tables, relationships, triggers, procedures, and functions.
2	MySQL Workbench	Tool for database design, ER diagram creation, query execution, and schema visualization.
3	Python 3.x	Primary programming language used for backend logic and database integration.
4	Streamlit	Web-based frontend framework used to develop the user interface for both users and admins.
5	mysql-connector-python	Python library used to connect the Streamlit application with the MySQL database.
6	pandas	Python library used for handling and displaying database query results in tabular form.
7	Pillow (PIL)	Library used for image handling and display in the Streamlit UI.
8	Git & GitHub	Version control and repository hosting platform for maintaining project code and documentation.
9	VS Code	Integrated development environments (IDEs) used for writing and debugging Python and SQL code.
10	Windows 10	Operating system used for project development and testing environment.

## 4. DDL Commands

```
-- DATABASE
DROP DATABASE IF EXISTS FoodOrdering;
CREATE DATABASE FoodOrdering;
USE FoodOrdering;

-- USERS
CREATE TABLE Users (
    user_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    email VARCHAR(100) UNIQUE NOT NULL,
    phone VARCHAR(20),
    address VARCHAR(255),
    password VARCHAR(255),
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
    updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
);

-- RESTAURANTS
CREATE TABLE Restaurants (
    restaurant_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    address VARCHAR(255),
    phone VARCHAR(20),
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
    updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
);

-- DELIVERY PARTNERS
CREATE TABLE Delivery_Partners (
    delivery_partner_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100),
    phone VARCHAR(20),
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
    updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
);

-- MENU
CREATE TABLE Menu (
    menu_id INT AUTO_INCREMENT PRIMARY KEY,
    restaurant_id INT NOT NULL,
    name VARCHAR(100) NOT NULL,
    price DECIMAL(8,2) NOT NULL,
    category VARCHAR(50),
    stock INT DEFAULT 100,
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
    updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    FOREIGN KEY (restaurant_id) REFERENCES Restaurants(restaurant_id)
);

-- ORDERS
CREATE TABLE Orders (
    order_id INT AUTO_INCREMENT PRIMARY KEY,
    user_id INT NOT NULL,
    order_date DATETIME DEFAULT CURRENT_TIMESTAMP,
    total_amount DECIMAL(10,2) DEFAULT 0.00,
    status ENUM('Pending', 'Confirmed', 'Out for Delivery', 'Delivered', 'Cancelled') DEFAULT 'Pending',
    delivery_partner_id INT DEFAULT NULL,
    coupon_code VARCHAR(50),
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
    updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    FOREIGN KEY (user_id) REFERENCES Users(user_id),
    FOREIGN KEY (delivery_partner_id) REFERENCES Delivery_Partners(delivery_partner_id)
);
```

```

-- ORDER ITEMS
CREATE TABLE Order_Items (
  order_item_id INT AUTO_INCREMENT PRIMARY KEY,
  order_id INT NOT NULL,
  menu_id INT NOT NULL,
  quantity INT DEFAULT 1,
  created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
  updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  FOREIGN KEY (order_id) REFERENCES Orders(order_id),
  FOREIGN KEY (menu_id) REFERENCES Menu(menu_id),
  CHECK (quantity > 0)
);

-- CART
CREATE TABLE Cart (
  cart_id INT AUTO_INCREMENT PRIMARY KEY,
  user_id INT NOT NULL,
  menu_id INT NOT NULL,
  quantity INT DEFAULT 1,
  created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
  updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  FOREIGN KEY (user_id) REFERENCES Users(user_id),
  FOREIGN KEY (menu_id) REFERENCES Menu(menu_id),
  UNIQUE KEY uniq_user_menu (user_id, menu_id),
  CHECK (quantity > 0)
);

-- REVIEWS
CREATE TABLE Reviews (
  review_id INT AUTO_INCREMENT PRIMARY KEY,
  user_id INT NOT NULL,
  restaurant_id INT NOT NULL,
  rating INT NOT NULL CHECK (rating BETWEEN 1 AND 5),
  comment VARCHAR(500),
  review_date DATETIME DEFAULT CURRENT_TIMESTAMP,
  created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
  updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  FOREIGN KEY (user_id) REFERENCES Users(user_id),
  FOREIGN KEY (restaurant_id) REFERENCES Restaurants(restaurant_id)
);

-- PAYMENTS
CREATE TABLE Payments (
  payment_id INT AUTO_INCREMENT PRIMARY KEY,
  order_id INT NOT NULL,
  payment_date DATETIME DEFAULT CURRENT_TIMESTAMP,
  amount DECIMAL(10,2),
  method VARCHAR(50),
  status ENUM('Pending', 'Completed', 'Failed') DEFAULT 'Pending',
  created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
  updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  FOREIGN KEY (order_id) REFERENCES Orders(order_id)
);

-- ORDER STATUS HISTORY
CREATE TABLE Order_Status_History (
  history_id INT AUTO_INCREMENT PRIMARY KEY,
  order_id INT NOT NULL,
  old_status VARCHAR(50),
  new_status VARCHAR(50),
  changed_at DATETIME DEFAULT CURRENT_TIMESTAMP,
  changed_by VARCHAR(100) DEFAULT 'system',
  FOREIGN KEY (order_id) REFERENCES Orders(order_id)
);

```



```
CREATE TABLE Coupons (
    coupon_id INT AUTO_INCREMENT PRIMARY KEY,
    code VARCHAR(50) UNIQUE,
    discount_percent INT CHECK (discount_percent BETWEEN 0 AND 100),
    max_discount_amount DECIMAL(10,2),
    expiry_date DATE,
    active BOOLEAN DEFAULT TRUE,
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP
);
```

**INSERT:**

Result Grid							
Filter Rows:		Edit:		Export/Imports:		Wrap Cell Contents:	
Fetch rows:							
user_id	name	email	phone	address	created_at	updated_at	password
1	Alice	alice@example.com	9876543210	123 Main St, Delhi	2025-10-26 09:49:49	2025-10-26 09:49:49	4e40e8ffe0ee32fa5e139147ed559229a5930f...
2	Bob	bob@example.com	9123456780	456 Oak Rd, Mumbai	2025-10-26 09:49:49	2025-10-26 09:49:49	8d059c3640b97180dd2ee453e20d34ab0cb0f2e...
3	Charlie	charlie@example.com	9988776655	78 Park Lane, Bangalore	2025-10-26 09:49:49	2025-10-26 09:49:49	1afda89737a745f15d42807d54f67c803727d75...
4	Diana	diana@example.com	9871234567	90 Elm St, Pune	2025-10-26 09:49:49	2025-10-26 09:49:49	a4fc466a3368ecd5720833b670fa0d40e376d6c9...
5	Eve	eve@example.com	9765432109	21 Maple Ave, Chennai	2025-10-26 09:49:49	2025-10-26 09:49:49	9b429e2c486fc24baa239ae21a60bacd3290e4d...

Result Grid						
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:
1	restaurant_id	name	address	phone	created_at	updated_at
2	1	Pizza Palace	12 Baker St, Delhi	9112345678	2025-10-26 09:49:49	2025-10-26 09:49:49
3	2	Sushi World	34 Maple Ave, Mumbai	9223456789	2025-10-26 09:49:49	2025-10-26 09:49:49
4	3	Burger Hub	56 Oak St, Bangalore	9334455667	2025-10-26 09:49:49	2025-10-26 09:49:49
5	4	Curry House	78 Pine Rd, Pune	9445566778	2025-10-26 09:49:49	2025-10-26 09:49:49
6	5	Taco Town	90 Cedar Ave, Chennai	9556677889	2025-10-26 09:49:49	2025-10-26 09:49:49
7	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid							
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:	
menu_id	restaurant_id	name	price	category	stock	created_at	updated_at
1	1	Pepperoni Pizza	325.00	Pizza	30	2025-10-26 09:49:49	2025-10-26 10:08:20
2	1	Veggie Pizza	280.00	Pizza	40	2025-10-26 09:49:49	2025-10-26 09:49:49
3	1	Cheese Pizza	300.00	Pizza	35	2025-10-26 09:49:49	2025-10-26 09:49:49
4	1	Margherita Pizza	290.00	Pizza	25	2025-10-26 09:49:49	2025-10-26 09:49:49
5	1	Garlic Bread	120.00	Sides	50	2025-10-26 09:49:49	2025-10-26 09:49:49
6	1	Mozzarella Sticks	150.00	Sides	40	2025-10-26 09:49:49	2025-10-26 09:49:49
7	1	Coke	50.00	Drink	200	2025-10-26 09:49:49	2025-10-26 09:49:49
8	1	Pepsi	50.00	Drink	200	2025-10-26 09:49:49	2025-10-26 09:49:49
9	1	Chocolate Lava Cake	180.00	Dessert	30	2025-10-26 09:49:49	2025-10-26 09:49:49
10	2	Salmon Sushi	340.00	Sushi	20	2025-10-26 09:49:49	2025-10-26 09:49:49

Result Grid									
Filter Rows:									
order_id	user_id	order_date	total_amount	status	delivery_partner_id	coupon_code	created_at	updated_at	
1	1	2025-10-26 09:49:49	745.00	Delivered	1	NULL	2025-10-26 09:49:49	2025-10-26 10:11:05	
2	2	2025-10-26 09:49:49	780.00	Delivered	2	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49	
3	3	2025-10-26 09:49:49	430.00	Out for Delivery	3	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49	
4	4	2025-10-26 09:49:49	600.00	Delivered	4	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49	
5	5	2025-10-26 09:49:49	320.00	Pending	5	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49	
6	6	2025-10-26 09:49:49	750.00	Cancelled	1	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49	
7	7	2025-10-26 09:49:49	900.00	Delivered	2	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49	
8	1	2025-10-26 09:53:10	520.00	Pending	1	NULL	2025-10-26 09:53:10	2025-10-26 09:53:10	
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

Users 2 Restaurants 3 Menu 4 Orders 5 × Order\_Items 6 Cart 7 Payments 8 Reviews 9

Output

Result Grid									
Filter Rows:									
order_item_id	order_id	menu_id	quantity	created_at	updated_at				
1	1	1	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
2	1	5	2	2025-10-26 09:49:49	2025-10-26 09:49:49				
3	1	9	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
4	2	2	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
5	2	6	2	2025-10-26 09:49:49	2025-10-26 09:49:49				
6	2	17	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
7	3	7	2	2025-10-26 09:49:49	2025-10-26 09:49:49				
8	3	10	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
9	3	12	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
10	4	11	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
•	NULL	NULL	NULL	NULL	NULL				

Users 2 Restaurants 3 Menu 4 Orders 5 Order\_Items 6 × Cart 7 Payments 8 Reviews 9

Output

Result Grid									
Filter Rows:									
cart_id	user_id	menu_id	quantity	created_at	updated_at				
3	2	10	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
4	2	14	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
5	3	3	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
6	3	6	2	2025-10-26 09:49:49	2025-10-26 09:49:49				
7	4	7	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
8	4	12	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
9	5	18	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
10	5	20	2	2025-10-26 09:49:49	2025-10-26 09:49:49				
11	6	1	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
12	6	4	1	2025-10-26 09:49:49	2025-10-26 09:49:49				
•	NULL	NULL	NULL	NULL	NULL				

Users 2 Restaurants 3 Menu 4 Orders 5 Order\_Items 6 Cart 7 × Payments 8 Reviews 9

Output

Result Grid									
Filter Rows:									
payment_id	order_id	payment_date	amount	method	status	created_at	updated_at		
1	1	2025-10-26 09:49:49	550.00	Credit Card	Completed	2025-10-26 09:49:49	2025-10-26 09:49:49		
2	2	2025-10-26 09:49:49	780.00	UPI	Completed	2025-10-26 09:49:49	2025-10-26 09:49:49		
3	3	2025-10-26 09:49:49	430.00	Wallet	Pending	2025-10-26 09:49:49	2025-10-26 09:49:49		
4	4	2025-10-26 09:49:49	600.00	Debit Card	Completed	2025-10-26 09:49:49	2025-10-26 09:49:49		
5	5	2025-10-26 09:49:49	320.00	Cash	Pending	2025-10-26 09:49:49	2025-10-26 09:49:49		
6	6	2025-10-26 09:49:49	750.00	Credit Card	Failed	2025-10-26 09:49:49	2025-10-26 09:49:49		
7	7	2025-10-26 09:49:49	900.00	UPI	Completed	2025-10-26 09:49:49	2025-10-26 09:49:49		
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL		

Users 2 Restaurants 3 Menu 4 Orders 5 Order\_Items 6 Cart 7 Payments 8 × Reviews 9

Output

Result Grid									
Filter Rows:									
review_id	user_id	restaurant_id	rating	comment	review_date	created_at	updated_at		
1	1	1	5	Absolutely loved the pepperoni pizza! Perfect cr...	2025-10-26 09:49:49	2025-10-26 09:49:49	2025-10-26 09:49:49		
2	2	1	4	Pizza was good but a bit cold.	2025-10-26 09:49:49	2025-10-26 09:49:49	2025-10-26 09:49:49		
3	3	1	5	Cheese Pizza was delicious.	2025-10-26 09:49:49	2025-10-26 09:49:49	2025-10-26 09:49:49		
4	4	2	5	Fresh sushi and fast delivery!	2025-10-26 09:49:49	2025-10-26 09:49:49	2025-10-26 09:49:49		
5	5	2	4	Tuna Roll was tasty but rice slightly overcooked.	2025-10-26 09:49:49	2025-10-26 09:49:49	2025-10-26 09:49:49		
6	6	2	3	Good sushi but limited variety.	2025-10-26 09:49:49	2025-10-26 09:49:49	2025-10-26 09:49:49		
7	7	3	4	Cheeseburger was juicy, fries were crispy.	2025-10-26 09:49:49	2025-10-26 09:49:49	2025-10-26 09:49:49		
8	1	1	5	Excellent food and service!	2025-10-26 09:55:41	2025-10-26 09:55:41	2025-10-26 09:55:41		
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL		

Users 2 Restaurants 3 Menu 4 Orders 5 Order\_Items 6 Cart 7 Payments 8 Reviews 9 ×

Output

Action Output

UPDATE:

```

501
502 • UPDATE Orders SET status='Delivered' WHERE order_id=5;
503 • SELECT * FROM Orders;
504

```

order_id	user_id	order_date	total_amount	status	delivery_partner_id	coupon_code	created_at	updated_at
1	1	2025-10-26 09:49:49	745.00	Delivered	1	NULL	2025-10-26 09:49:49	2025-10-26 10:11:05
2	2	2025-10-26 09:49:49	780.00	Delivered	2	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
3	3	2025-10-26 09:49:49	430.00	Out for Delivery	3	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
4	4	2025-10-26 09:49:49	600.00	Delivered	4	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
5	5	2025-10-26 09:49:49	320.00	Delivered	5	NULL	2025-10-26 09:49:49	2025-10-26 13:02:41
6	6	2025-10-26 09:49:49	750.00	Cancelled	1	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
7	7	2025-10-26 09:49:49	900.00	Delivered	2	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
8	1	2025-10-26 09:53:10	520.00	Pending	1	NULL	2025-10-26 09:53:10	2025-10-26 09:53:10
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Orders 11 x

Output

## DELETE:

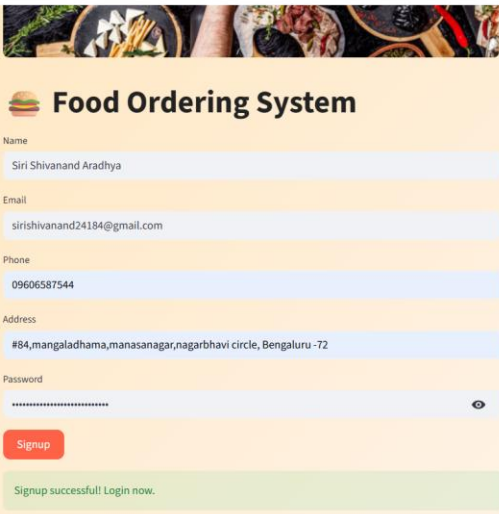
DELETE FROM Cart WHERE user\_id=1 AND menu\_id=2;

## 6. List of functionalities/features of the application and its associated screenshots using front end

### USER PORTAL

#### SIGNUP

Select  
Signup



### Food Ordering System

Name  
Siri Shivanand Aradhya

Email  
sirishivanand24184@gmail.com

Phone  
09606587544

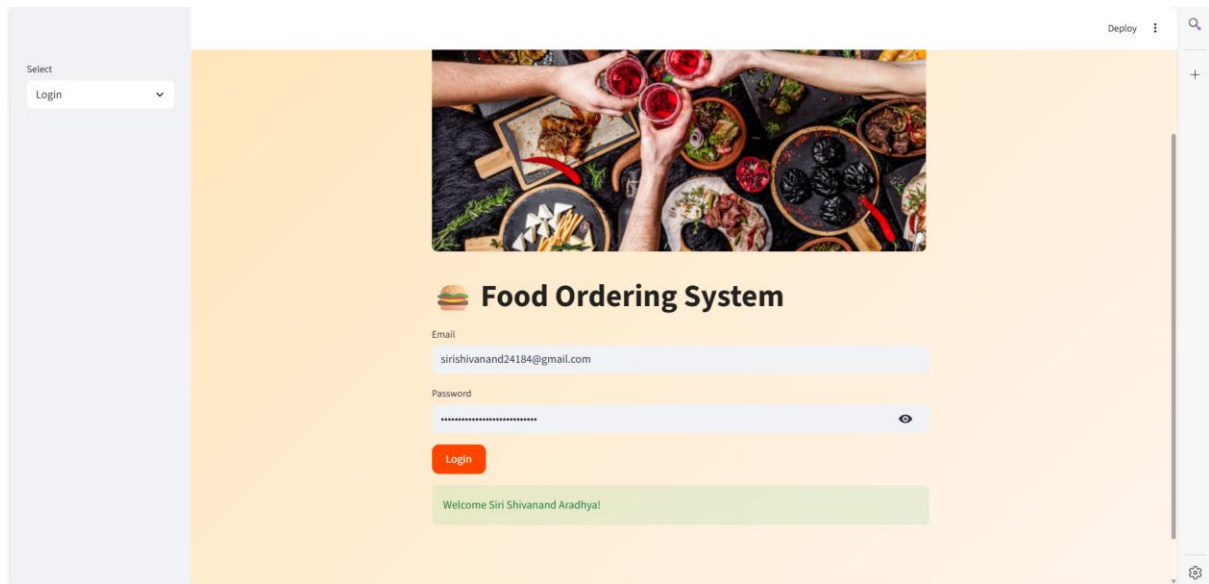
Address  
#84,mangaladhama,manasanagar,nagarbhavi circle, Bengaluru -72

Password  
\*\*\*\*\*

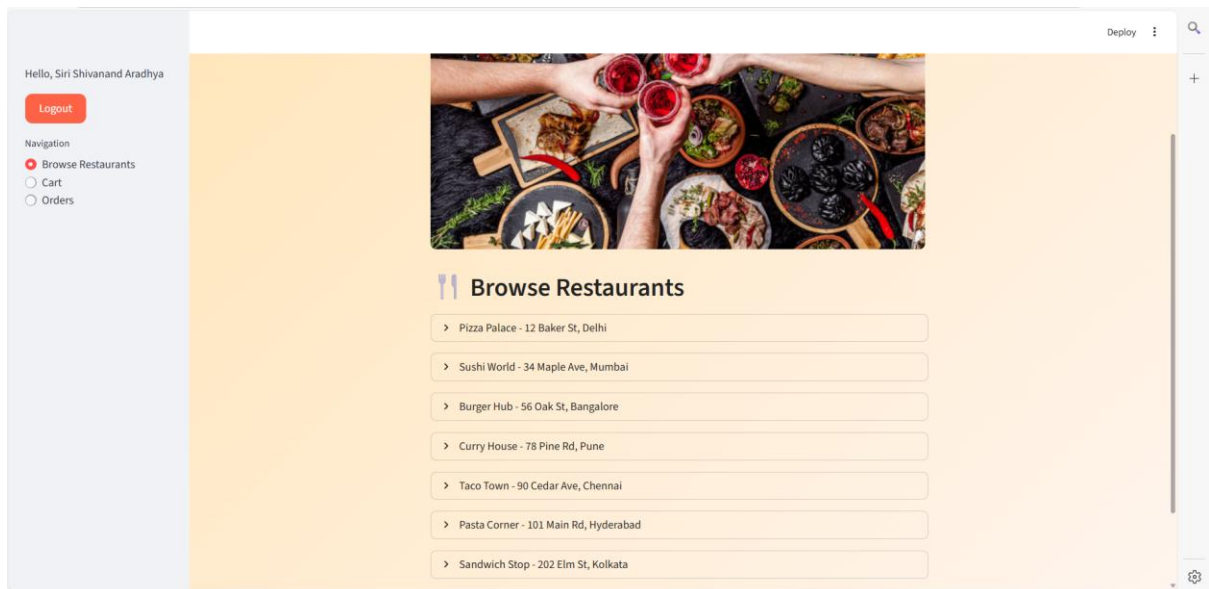
Signup

Signup successful! Login now.

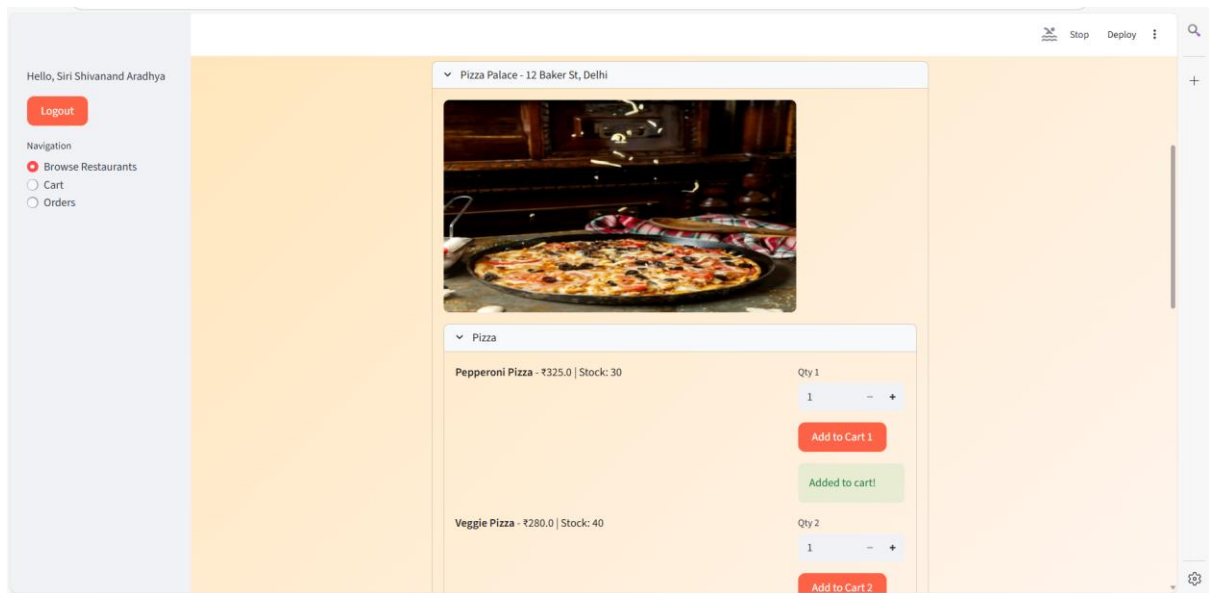
#### LOGIN



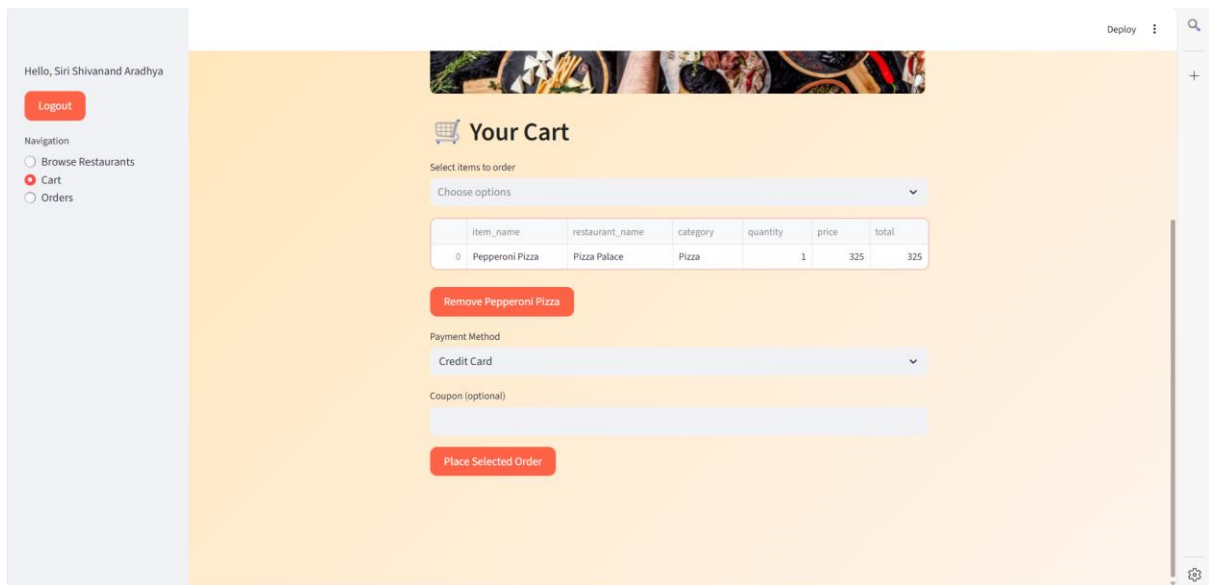
## BROWSE RESTAURANT



## ADD TO CART

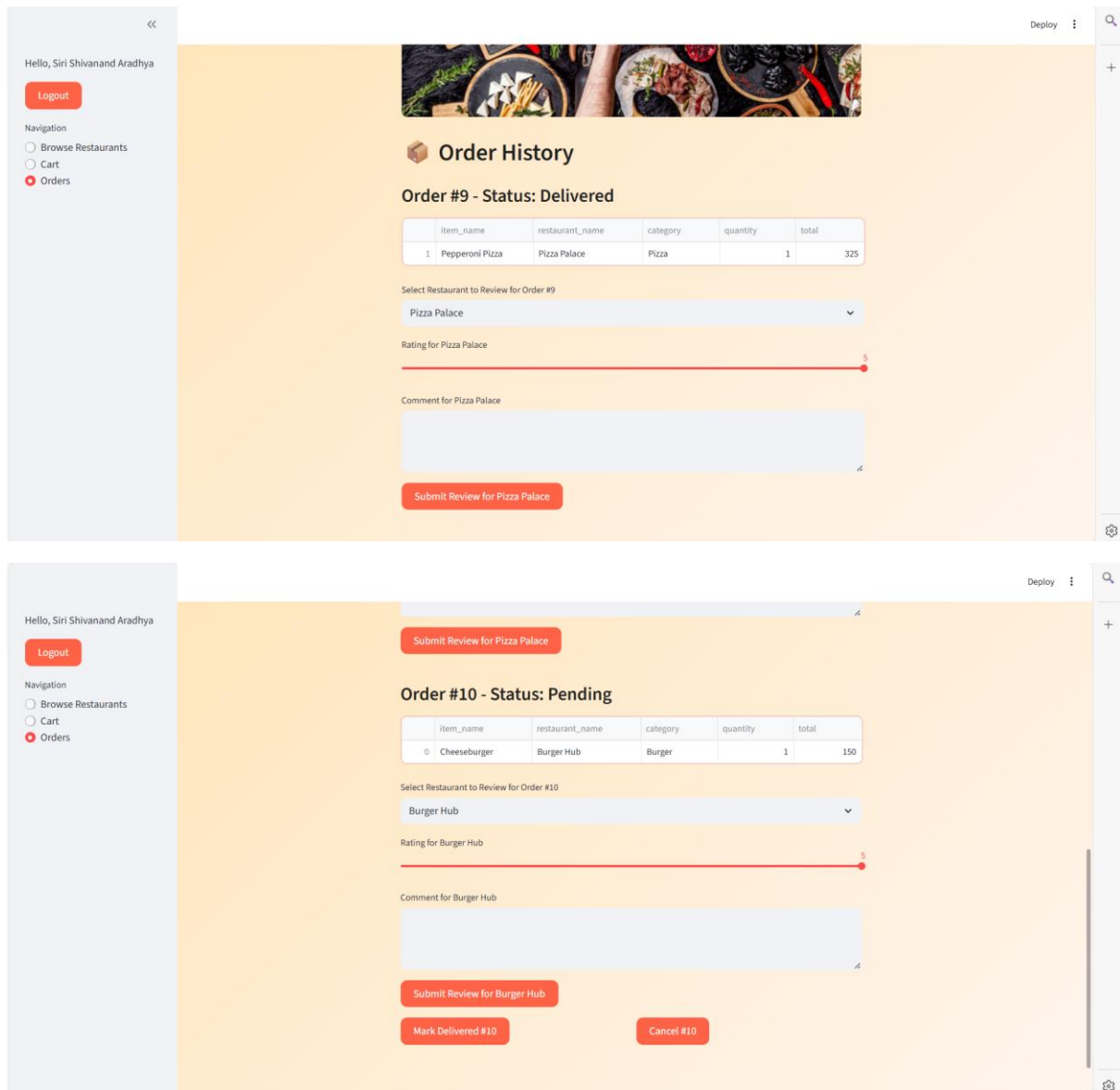


REMOVE FROM CART OR PLACE ORDER



VIEW ORDER HISTORY AND VIEW ORDER STATUS :

RATE AND REVIEW RESTAURANTS AND CANCEL ORDER:



## ADMIN PORTAL


LOGIN:



Select  
Admin Login

Deploy

+



## Food Ordering System

Admin Username

Admin Password

Login as Admin


Admin logged in!

## MANAGE RESTAURANTS – ADD/DELETE

Login

Deploy 1

+



### Admin Dashboard

Restaurants Menu Orders

Manage Restaurants

ID	Name	Address	Phone	Created At	Updated At
1	Pizza Palace	12 Baker St, Delhi	9112345678	2025-10-26 09:45:49	2025-10-26 09:45:49
2	Sushi World	34 Maple Ave, Mumbai	9323456789	2025-10-26 09:45:49	2025-10-26 09:45:49
3	Burger Hub	56 Oak St, Bangalore	9334567890	2025-10-26 09:45:49	2025-10-26 09:45:49
4	Coffee House	78 Pine Rd, Pune	9445678901	2025-10-26 09:45:49	2025-10-26 09:45:49
5	Taco Town	90 Cedar Ave, Chennai	9556789012	2025-10-26 09:45:49	2025-10-26 09:45:49
6	Pasta Corner	101 Main St, Hyderabad	9667890123	2025-10-26 09:45:49	2025-10-26 09:45:49
7	Spice Garden	112 Elm St, Kolkata	9778901234	2025-10-26 09:45:49	2025-10-26 09:45:49

Restaurant Name

Address

Add Restaurant

Select Restaurant to Delete

Pizza Palace

Remove Selected Restaurant

## ADD, DELETE, UPDATE MENU ITEMS:

**Menu Item Table:**

id	menu_id	restaurant_name	price	category	stock	created_at
1	1	Peppermint Pizza	80	Pizza	30	2023-10-20 09:49:40
2	2	Yagga Pizza	200	Pizza	40	2023-10-20 09:49:40
3	3	Cheese Pizza	300	Pizza	25	2023-10-20 09:49:40
4	4	Margherita Pizza	200	Pizza	25	2023-10-20 09:49:40
5	5	Saltic Bread	120	Bread	35	2023-10-20 09:49:40
6	6	McDonalds 24x7	120	Snack	40	2023-10-20 09:49:40
7	7	Cake	50	Snack	200	2023-10-20 09:49:40
8	8	Popo	50	Snack	200	2023-10-20 09:49:40
9	9	Chocolate Lava Cake	100	Dessert	30	2023-10-20 09:49:40

**Add, Delete & Update Menu Item Form:**

Item Name:

Category:

Price:

Stock:

Select Item to Update or Delete:

Peppermint Pizza

New Price:

New Stock:

## ORDER MANAGEMENT

**Order List:**

id	order_id	restaurant_name	quantity	total
10	10	Yagga Hub	2	200
11	11	Edamame	2	100

**Order #6 | Status: Cancelled**

item_name	restaurant_name	quantity	total
1	Chocolate Pizza	2	400
2	Tandoori	1	300
3	Chicken Burger	2	175

**Order #7 | Status: Delivered**

item_name	restaurant_name	quantity	total
4	Yagga Pizza	1	200
5	Miso Soup	2	100
6	Machi Ice Cream	1	100

**Order #8 | Status: Pending**

item_name	restaurant_name	quantity	total
7	Yagga Pizza	1	200
8	Saltic Bread	2	240

**Order #9 | Status: Delivered**

item_name	restaurant_name	quantity	total
1	Peppermint Pizza	1	80

**Order #10 | Status: Pending**

item_name	restaurant_name	quantity	total
9	Chocolate Burger	1	100

## 7. Triggers, Procedures/Functions, Nested query, Join, Aggregate queries

### FUNCTIONS

```
DELIMITER //
CREATE FUNCTION GetOrderTotal(p_order_id INT)
RETURNS DECIMAL(10,2)
DETERMINISTIC
BEGIN
    DECLARE total DECIMAL(10,2) DEFAULT 0.00;
    SELECT IFNULL(SUM(m.price * oi.quantity), 0.00) INTO total
    FROM Order_Items oi
    JOIN Menu m ON oi.menu_id = m.menu_id
    WHERE oi.order_id = p_order_id;
    RETURN total;
END;
//
```



```

CREATE FUNCTION GetRestaurantAvgRating(p_restaurant_id INT)
RETURNS DECIMAL(3,2)
DETERMINISTIC
BEGIN
    DECLARE avg_rating DECIMAL(3,2);
    SELECT IFNULL(AVG(rating), 0.00) INTO avg_rating
    FROM Reviews
    WHERE restaurant_id = p_restaurant_id;
    RETURN avg_rating;
END;
//
DELIMITER ;

```

```

-- Invoking Functions
SELECT GetOrderTotal(1) AS OrderTotal;
SELECT GetRestaurantAvgRating(1) AS AverageRating;

```

## PROCEDURE

```

DELIMITER //
CREATE PROCEDURE PlaceOrderFromCart(IN p_user_id INT, IN p_delivery_partner_id INT)
BEGIN
    DECLARE v_order_id INT;
    INSERT INTO Orders (user_id, total_amount, status, delivery_partner_id)
    VALUES (p_user_id, 0.00, 'Pending', p_delivery_partner_id);

    SET v_order_id = LAST_INSERT_ID();

    INSERT INTO Order_Items (order_id, menu_id, quantity)
    SELECT v_order_id, menu_id, quantity FROM Cart WHERE user_id = p_user_id;

    UPDATE Orders
    SET total_amount = GetOrderTotal(v_order_id)
    WHERE order_id = v_order_id;

    DELETE FROM Cart WHERE user_id = p_user_id;
END;
//

```

```

CREATE PROCEDURE AddReview(IN p_user_id INT, IN p_restaurant_id INT, IN p_rating INT, IN p_comment VARCHAR(500))
BEGIN
    IF p_rating < 1 OR p_rating > 5 THEN
        SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Rating must be between 1 and 5';
    END IF;

    INSERT INTO Reviews (user_id, restaurant_id, rating, comment)
    VALUES (p_user_id, p_restaurant_id, p_rating, p_comment);
END;
//
DELIMITER ;

```

```

-- Invoking Procedures
CALL PlaceOrderFromCart(1,1);
CALL AddReview(1,1,5,'Excellent food and service!');

```

## TRIGGERS:

```

DELIMITER //
CREATE TRIGGER trg_after_insert_order_item
AFTER INSERT ON Order_Items
FOR EACH ROW
BEGIN
    UPDATE Menu SET stock = stock - NEW.quantity WHERE menu_id = NEW.menu_id;
    IF (SELECT stock FROM Menu WHERE menu_id = NEW.menu_id) < 0 THEN
        SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Insufficient stock for the menu item';
    END IF;
END;
//

```

```

    UPDATE Orders SET total_amount = GetOrderTotal(NEW.order_id) WHERE order_id = NEW.order_id;
END;
//

CREATE TRIGGER trg_after_delete_order_item
AFTER DELETE ON Order_Items
FOR EACH ROW
BEGIN
    UPDATE Menu SET stock = stock + OLD.quantity WHERE menu_id = OLD.menu_id;
    UPDATE Orders SET total_amount = GetOrderTotal(OLD.order_id) WHERE order_id = OLD.order_id;
END;
//

CREATE TRIGGER trg_orders_update_status_after
AFTER UPDATE ON Orders
FOR EACH ROW
BEGIN
    IF NEW.status <> OLD.status THEN
        INSERT INTO Order_Status_History (order_id, old_status, new_status, changed_by)
        VALUES (NEW.order_id, OLD.status, NEW.status, 'system');
    END IF;
END;
//
DELIMITER ;

-- Trigger demonstration
INSERT INTO Order_Items (order_id, menu_id, quantity) VALUES (1,1,2); -- trg_after_insert_order_item fires
DELETE FROM Order_Items WHERE order_item_id=(SELECT MAX(order_item_id) FROM Order_Items WHERE menu_id=1); --
trg_after_delete_order_item fires
UPDATE Orders SET status='Delivered' WHERE order_id=1; -- trg_orders_update_status_after fires

```

## NESTED QUERIES:

```

DELETE FROM Order_Items
WHERE order_item_id = (
    SELECT t.order_item_id
    FROM (
        SELECT MAX(order_item_id) AS order_item_id
        FROM Order_Items
        WHERE menu_id = 1
    ) AS t
);

```

## JOIN QUERIES:

```

-- Example Join (Participants & Events)
SELECT p.participant_name
FROM participant p
JOIN registration r ON p.participant_id = r.participant_id
JOIN event e ON r.event_id = e.event_id
WHERE e.price > (SELECT AVG(price) FROM event);

```

```

-- Orders with Users
SELECT o.order_id, u.name, o.total_amount
FROM Orders o
JOIN Users u ON o.user_id = u.user_id;

```

## Aggregate Queries:

```

-- Average rating per restaurant
SELECT restaurant_id, AVG(rating) AS manual_avg
FROM Reviews
GROUP BY restaurant_id;

```

```
-- Total order amount using function
SELECT GetOrderTotal(1) AS OrderTotal;
```

## 8. Ss for triggers, procedure, functions output

FUNTIONS:

```
305
306 ● USE FoodOrdering;
307 -- Function: GetOrderTotal
308 DELIMITER //
309 ● CREATE FUNCTION GetOrderTotal(p_order_id INT)
310 RETURNS DECIMAL(10,2)
311 DETERMINISTIC
312 BEGIN
313     DECLARE total DECIMAL(10,2) DEFAULT 0.00;
314     SELECT IFNULL(SUM(m.price * oi.quantity), 0.00) INTO total
315     FROM Order_Items oi
316     JOIN Menu m ON oi.menu_id = m.menu_id
317     WHERE oi.order_id = p_order_id;
318     RETURN total;
319 END;
320 //
321 DELIMITER ;
322
323 -- Function: GetRestaurantAvgRating
324 DELIMITER //
325 ● CREATE FUNCTION GetRestaurantAvgRating(p_restaurant_id INT)
326 RETURNS DECIMAL(3,2)
327 DETERMINISTIC
328 BEGIN
329     DECLARE avg_rating DECIMAL(3,2);
330     SELECT IFNULL(AVG(rating), 0.00) INTO avg_rating
331     FROM Reviews
332     WHERE restaurant_id = p_restaurant_id;
333     RETURN avg_rating;
334 END;
335 //
336 DELIMITER ;
```

```

337
338 ● -- Functions Created
339 SHOW FUNCTION STATUS WHERE Db = 'FoodOrdering';
340
341 ● SELECT order_id FROM Orders;
342 ● SELECT GetOrderTotal(10) AS OrderTotal;
343
344 ● SELECT restaurant_id, name FROM Restaurants;
345 ● SELECT GetRestaurantAvgRating(1) AS AverageRating;
346
347 ● SELECT restaurant_id, AVG(rating) AS manual_avg
348 FROM Reviews
349 GROUP BY restaurant_id;
350

```

BEFORE:

Db	Name	Type	Definer	Modified	Created	Security_type	Comment	character
foodordering	GetOrderTotal	FUNCTION	root@localhost	2025-10-26 02:55:26	2025-10-26 02:55:26	DEFINER		utf8mb4
foodordering	GetRestaurantAvgRating	FUNCTION	root@localhost	2025-10-26 02:55:26	2025-10-26 02:55:26	DEFINER		utf8mb4
foodordering	GetRestaurantRating	FUNCTION	root@localhost	2025-10-24 15:15:45	2025-10-24 15:15:45	DEFINER		utf8mb4
foodordering	GetUserTotalOrders	FUNCTION	root@localhost	2025-10-24 15:15:45	2025-10-24 15:15:45	DEFINER		utf8mb4

AFTER:

order_id
1
8
2
9
3
4
5
6
7
10
11

GET ORDER TOTAL

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

OrderTotal
755.00

Orders 8 | Result 9 x | Read Only

## GET RESTAURENT AVG RATING

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

restaurant_id	name
1	Pizza Palace
2	Sushi World
3	Burger Hub
4	Curry House
5	Taco Town
6	Pasta Corner
7	Sandwich Stop
NULL	NULL

Restaurants 12 x | Apply | Read Only

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

AverageRating
4.75

Result 10 x | Read Only


Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

restaurant_id	manual_avg
1	4.7500
2	4.0000
3	4.0000

Result 11 x | Read Only

Output

## PROCEDURE



Limit to 1000 rows

```
350
351 -- procedure
352 DELIMITER //
353 • CREATE PROCEDURE PlaceOrderFromCart(IN p_user_id INT, IN p_delivery_partner_id INT)
354 BEGIN
355     DECLARE v_order_id INT;
356
357     -- 1. Create an order entry
358     INSERT INTO Orders (user_id, total_amount, status, delivery_partner_id)
359     VALUES (p_user_id, 0.00, 'Pending', p_delivery_partner_id);
360
361     SET v_order_id = LAST_INSERT_ID();
362
363     -- 2. Copy all cart items into Order_Items
364     INSERT INTO Order_Items (order_id, menu_id, quantity)
365     SELECT v_order_id, menu_id, quantity FROM Cart WHERE user_id = p_user_id;
366
367     -- 3. Calculate total and update Orders table
368     UPDATE Orders
369     SET total_amount = GetOrderTotal(v_order_id)
370     WHERE order_id = v_order_id;
371
372     -- 4. Clear the user's cart
373     DELETE FROM Cart WHERE user_id = p_user_id;
374 END;
---
```

```

377
378 DELIMITER //
379 ● CREATE PROCEDURE AddReview(
380     IN p_user_id INT,
381     IN p_restaurant_id INT,
382     IN p_rating INT,
383     IN p_comment VARCHAR(500)
384 )
385 BEGIN
386     IF p_rating < 1 OR p_rating > 5 THEN
387         SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Rating must be between 1 and 5';
388     END IF;
389
390     INSERT INTO Reviews (user_id, restaurant_id, rating, comment)
391     VALUES (p_user_id, p_restaurant_id, p_rating, p_comment);
392 END;
393 //
394 DELIMITER ;
395
396 ● SHOW PROCEDURE STATUS WHERE Db='FoodOrdering';
397
398 ● SELECT * FROM Orders ORDER BY order_id DESC LIMIT 5;
399 ● SELECT * FROM Cart WHERE user_id = 1;
400
401 ● CALL PlaceOrderFromCart(1, 1);
...

```

```

403 ● SELECT * FROM Orders ORDER BY order_id DESC LIMIT 5;
404 ● SELECT * FROM Cart WHERE user_id = 1;
405 ● SELECT * FROM Order_Items WHERE order_id = (SELECT MAX(order_id) FROM Orders WHERE user_id=1);
406
407 ● CALL AddReview(1, 1, 5, 'Excellent food and service!');
408
409 ● SELECT * FROM Reviews WHERE user_id=1 ORDER BY review_date DESC LIMIT 3;
410

```

Db	Name	Type	Definer	Modified	Created	Security_type	Comment	character_se
foodordering	AddReview	PROCEDURE	root@localhost	2025-10-26 09:49:49	2025-10-26 09:49:49	DEFINER		utf8mb4
foodordering	PlaceOrderFromCart	PROCEDURE	root@localhost	2025-10-26 09:49:49	2025-10-26 09:49:49	DEFINER		utf8mb4

Result 19 x Read Only

BEFORE

Result Grid									
Filter Rows:									
	order_id	user_id	order_date	total_amount	status	delivery_partner_id	coupon_code	created_at	updated_at
▶	7	7	2025-10-26 09:49:49	900.00	Delivered	2	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
	6	6	2025-10-26 09:49:49	750.00	Cancelled	1	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
	5	5	2025-10-26 09:49:49	320.00	Pending	5	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
	4	4	2025-10-26 09:49:49	600.00	Delivered	4	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
	3	3	2025-10-26 09:49:49	430.00	Out for Delivery	3	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Orders 20 × Cart 21

Apply Revert

Result Grid						
Filter Rows:						
	cart_id	user_id	menu_id	quantity	created_at	updated_at
▶	1	1	2	1	2025-10-26 09:49:49	2025-10-26 09:49:49
	2	1	5	2	2025-10-26 09:49:49	2025-10-26 09:49:49
*	NULL	NULL	NULL	NULL	NULL	NULL

Orders 20 Cart 21 ×

Apply Revert

AFTER

Result Grid									
Filter Rows:									
	order_id	user_id	order_date	total_amount	status	delivery_partner_id	coupon_code	created_at	updated_at
▶	8	1	2025-10-26 09:53:10	520.00	Pending	1	NULL	2025-10-26 09:53:10	2025-10-26 09:53:10
	7	7	2025-10-26 09:49:49	900.00	Delivered	2	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
	6	6	2025-10-26 09:49:49	750.00	Cancelled	1	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
	5	5	2025-10-26 09:49:49	320.00	Pending	5	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
	4	4	2025-10-26 09:49:49	600.00	Delivered	4	NULL	2025-10-26 09:49:49	2025-10-26 09:49:49
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Orders 22 × Cart 23 Order\_Items 24

Apply Revert

Result Grid						
Filter Rows:						
	cart_id	user_id	menu_id	quantity	created_at	updated_at
*	NULL	NULL	NULL	NULL	NULL	NULL

Orders 22 Cart 23 × Order\_Items 24

Apply Revert



Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	order_item_id	order_id	menu_id	quantity	created_at	updated_at
▶	21	8	2	1	2025-10-26 09:53:10	2025-10-26 09:53:10
▶	22	8	5	2	2025-10-26 09:53:10	2025-10-26 09:53:10
•	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid

Form Editor

Field Types

Orders 22

Cart 23

Order\_Items 24 x

Apply

Revert

Output

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	review_id	user_id	restaurant_id	rating	comment	review_date	created_at	updated_at
▶	8	1	1	5	Excellent food and service!	2025-10-26 09:55:41	2025-10-26 09:55:41	2025-10-26 09:55:41
▶	1	1	1	5	Absolutely loved the pepperoni pizza! Perfect cr...	2025-10-26 09:49:49	2025-10-26 09:49:49	2025-10-26 09:49:49
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid

Form Editor

Field Types

Reviews 26 x

Apply

Revert

## TRIGGERS:

Limit to 1000 rows

```

410
411 -- triggers
412
413 DELIMITER //
414 • CREATE TRIGGER trg_after_insert_order_item
415 AFTER INSERT ON Order_Items
416 FOR EACH ROW
417 BEGIN
418     -- Decrease stock for ordered item
419     UPDATE Menu
420     SET stock = stock - NEW.quantity
421     WHERE menu_id = NEW.menu_id;
422
423     -- If stock goes negative, signal error
424     IF (SELECT stock FROM Menu WHERE menu_id = NEW.menu_id) < 0 THEN
425         SIGNAL SQLSTATE '45000'
426         SET MESSAGE_TEXT = 'Insufficient stock for the menu item';
427     END IF;
428
429     -- Recalculate order total
430     UPDATE Orders
431     SET total_amount = GetOrderTotal(NEW.order_id)
432     WHERE order_id = NEW.order_id;
433 END;
434 //
435

```

```
437 • CREATE TRIGGER trg_after_delete_order_item
438 AFTER DELETE ON Order_Items
439 FOR EACH ROW
440 BEGIN
441     UPDATE Menu
442     SET stock = stock + OLD.quantity
443     WHERE menu_id = OLD.menu_id;
444
445     UPDATE Orders
446     SET total_amount = GetOrderTotal(OLD.order_id)
447     WHERE order_id = OLD.order_id;
448 END;
449 //
450 DELIMITER ;
451 DELIMITER //
452 • CREATE TRIGGER trg_orders_update_status_after
453 AFTER UPDATE ON Orders
454 FOR EACH ROW
455 BEGIN
456     IF NEW.status <> OLD.status THEN
457         INSERT INTO Order_Status_History (order_id, old_status, new_status, changed_by)
458         VALUES (NEW.order_id, OLD.status, NEW.status, 'system');
459     END IF;
460 END;
461 //
---
```

```
464 • SHOW TRIGGERS;
465
466 • SELECT menu_id, stock FROM Menu WHERE menu_id = 1;
467 • SELECT total_amount FROM Orders WHERE order_id = 1;
468
469 • INSERT INTO Order_Items (order_id, menu_id, quantity) VALUES (1, 1, 2);
470
471 • SELECT menu_id, stock FROM Menu WHERE menu_id = 1;
472 • SELECT total_amount FROM Orders WHERE order_id = 1;
473
474 • SELECT stock FROM Menu WHERE menu_id = 1;
475
476 • DELETE FROM Order_Items
477 WHERE order_item_id = (
478     SELECT t.order_item_id
479     FROM (
480         SELECT MAX(order_item_id) AS order_item_id
481         FROM Order_Items
482         WHERE menu_id = 1
483     ) AS t
484 );
485 • SELECT stock FROM Menu WHERE menu_id = 1;
486
487 • SELECT * FROM Order_Status_History WHERE order_id = 1;
488
---
```

```

485 ● SELECT stock FROM Menu WHERE menu_id = 1;
486
487 ● SELECT * FROM Order_Status_History WHERE order_id = 1;
488
489
490
491 ● UPDATE Orders SET status='Delivered' WHERE order_id=1;
492
493 ● SELECT * FROM Order_Status_History WHERE order_id = 1;
494
495 ● SELECT * FROM Cart WHERE user_id=1 AND menu_id=1;
496 ● INSERT INTO Cart (user_id, menu_id, quantity) VALUES (1,1,2);
497 ● SELECT * FROM Cart WHERE user_id=1 AND menu_id=1;

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

15

Trigger	Event	Table	Statement	Timing	Created	sql_mode	Definer	character_set_client	collation_connection	Database Collation
trg_cart_before_insert	INSERT	cart	BEGIN DECLARE existing_qty INT; SELECT ... BEFORE		2025-10-26 10:01:39.95	ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLE...	root@localhost	utf8mb4	utf8mb4_0900_ai_ci	utf8mb4_0900_ai_ci
trg_after_insert_order_item	INSERT	order_items	BEGIN -- Decrease stock for ordered item ... AFTER		2025-10-26 09:59:42.34	ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLE...	root@localhost	utf8mb4	utf8mb4_0900_ai_ci	utf8mb4_0900_ai_ci
trg_after_delete_order_item	DELETE	order_items	BEGIN UPDATE Menu SET stock = stock + ... AFTER		2025-10-26 10:00:43.86	ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLE...	root@localhost	utf8mb4	utf8mb4_0900_ai_ci	utf8mb4_0900_ai_ci
trg_orders_update_status_after	UPDATE	orders	BEGIN IF NEW.status <> OLD.status THEN ... AFTER		2025-10-26 10:01:17.97	ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLE...	root@localhost	utf8mb4	utf8mb4_0900_ai_ci	utf8mb4_0900_ai_ci

Result Grid

Form Editor

Field Types

Query Data

Read Only

Result 27

BEFORE

Stock & Total Update Trigger:

menu_id	stock
1	30
NULL	NULL

total_amount
550.00

AFTER

Result Grid		
	menu_id	stock
▶	1	28
*	NULL	NULL

Result Grid	
	total_amount
▶	1395.00

## Delete Trigger

BEFORE

Result Grid	
	stock
▶	28

AFTER

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
stock			
30			

Menu 33 x

Read Only

Output

## Order Status History Trigger

BEFORE:

Result Grid

Filter Rows:

Edit:

<

AFTER:

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

history_id	order_id	old_status	new_status	changed_at	changed_by
1	1	Pending	Delivered	2025-10-26 10:11:05	system
*	NULL	NULL	NULL	NULL	NULL

Order\_Status\_History 35 x

Apply

Output

## Cart Quantity Increment Trigger

BEFORE:

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

cart\_id

user\_id

menu\_id

quantity

created\_at

updated\_at

NULL

NULL

NULL

NULL

NULL

Cart 36

Apply

Output

AFTER:

	cart_id	user_id	menu_id	quantity	created_at	updated_at
▶	15	1	1	2	2025-10-26 10:13:09	2025-10-26 10:13:09
•	NULL	NULL	NULL	NULL	NULL	NULL

9. GitHub repo link:

<https://github.com/sirishivanand24184-png/FOOD-ORDERING-SYSTEM-.git>