

# Project Report

On

OM RESTAURANT

(ONLINE FOOD ORDERING SYSTEM)

Created By

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Bscit-5

Under The Guidance of

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Submitted To

GEETANAJALI COLLEGE OF COMPUTER SCIENCE & COMMERCE



Affiliated To

Saurashtra University

For Academic Year

2025-26



Geetanjali Charitable Trust Sanchalit

# GEETANJALI COLLEGE

Of Computer Science & Commerce (B.B.A.)

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Date 06/11/2025

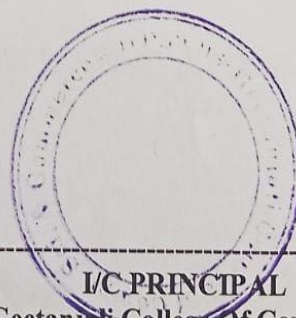
Roll No.

Seat No : 23SI00  
30600139

## Certificate

This is to certify that Mr./Miss. Ghazham Ravi G.  
\_\_\_\_\_ student of B.Sc. I.T. SEM-V has carried  
out this project work as per Saurashtra University  
curriculum, under our guidance and supervision and it is  
his/her own contribution.

PROJECT GUIDE  
Geetanjali College Of Computer  
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I/C PRINCIPAL  
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## Acknowledgement

- The project on OM RESTAURANT(Online Food Ordering System) is developed in PHP Language at GEETANJALI COLLEGE OF COMPUTER SCIENCE & COMMERCE. I would like to acknowledge that my project has been completed and I am ensuring that, in this accomplishment, I would like to express my special gratitude to all my teachers and specially to PROF. NIDHI PARMAR without their guidance and feedback it is not possible to complete this assignment.

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# INTRODUCTION

## 1. OBJECTIVE

- The main objective of this project is to develop an online Restaurant system that simplifies restaurant management tasks.
- The System allows customers to register, Login, browse the menu, place orders and checkout online.
- It allows administrators to manage menu items, manage customer orders, manage users, generate revenue report efficiently.

## 2. Scope Of the Project

➤ This Project aims to automate and digitalize restaurant operations such as:

- Customer registration and authentication.
- Online food ordering and cart management.
- Administrative control over menu and order management.
- Automated generation of revenue reports.
- Secure login for admin and customers.
- The system improves efficiency, reduce manual errors and enhances customer experience.

## PROJECT PROFILE

**Project Title :** Om Restaurant(Online Food Ordering System)

**Development Software :** Visual Studio

**Front End Tool :** PHP

**Back End Tool :** SQL SERVER

**Academic Year :** 2025-26

**Developed By :** Ravi Chauhan

**Submitted To :** Geetanjali College

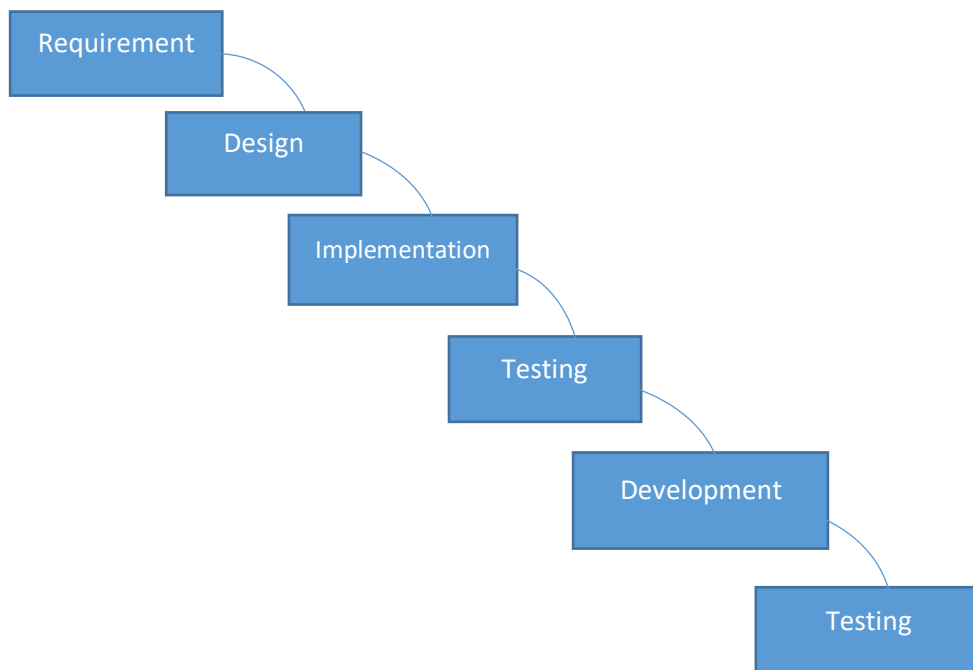
## PROCESS MODEL

- For The development of the Online Food Ordering System, the Waterfall Model has been used.

### ➤ The Waterfall Model:

The waterfall model is one of the most widely used Software Development Life Cycle models that follows a sequential design process – where is phase must be completed before moving next.

The waterfall development model originates in the manufacturing and construction industries: highly structured physical environments in which after-the-fact changes are prohibitively costly, if not impossible. Since no formal software development methodologies existed at the time, this hardware-oriented model was simply adapted for software development.



### ➤ Advantages of Using Waterfall Model

- Easy to Understand and Manage.
- Each phase has clear deliverables and deadlines.
- Works well when requirements are fixed and clearly defined.
- Simple and structured approach.

## Software Resources

Frontend Design Tool : Visual Studio Code

Backend Design Tool : Microsoft SQL server

Code-Behind Language : PHP

### ➤ Customer Module Functionality :

- User Registration
- Login/Logout
- View Menu
- Add to Cart
- Update/ Remove Cart Items
- Checkout
- View Order History

### ➤ Admin Module Functionality :

- Login/Logout
- Dashboard Overview
- Add Menu Item
- Manage Menu Items(Update / Delete)
- Manage Orders
- Manage User / Customers
- Generate Revenue reports



# Data Dictionary

## 1. User Login Table

Columns	Datatype	Constraints
id	int	PrimeryKey(Ai)
name	Varchar(250)	Not null
phone	Varchar(250)	Not null
email	Varchar(250)	Not null
password	Varchar(255)	Not null
cpassword	Varchar(255)	Not null
address	text	Not null

## 2. Admin Login Table

Columns	Datatype	Constraints
adm_id	int	PrimeryKey(Ai)
name	Varchar(255)	Not null
email	Varchar(255)	Not null
password	Varchar(255)	Not null
date	Datetime(6)	Not null

## 3.Menu Table

Columns	Datatype	Constraints
id	int	PrimeryKey(Ai)
item_name	Varchar(50)	Not null
description	Varchar(250)	Not null
img	Varchar(250)	Not null
price	float	Not null
category	Varchar(250)	Not null

## 4.Contactus Table

Columns	Datatype	Constraints
id	int	PrimeryKey(Ai)
name	Varchar(255)	Not null
number	Varchar(255)	Not null
email	Varchar(255)	Not null
message	text	Not null
date	Datetime(6)	Not null

## 5.Reservation Table





Columns	Datatype	Constraints
rs_id	int	Primerykey(Ai)
Customer_name	Varchar(255)	Not null
contact	Varchar(11)	Not null
date	date	Not null
time	Time(6)	Not null
Guests	int	Not null

## 6.Orders

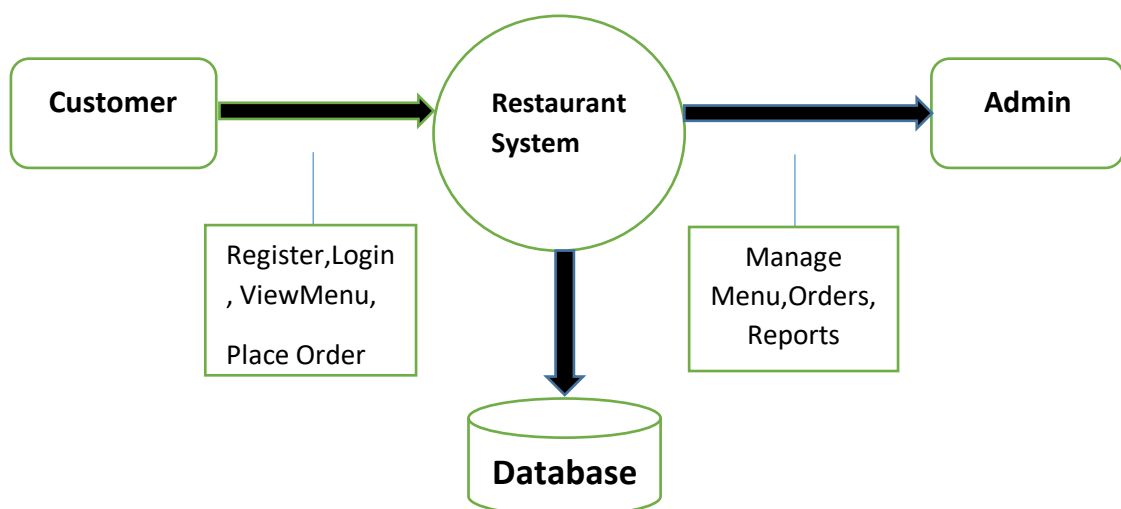
Columns	Datatype	Constraints
Order_id	int	Primerykey(Ai)
Customer_name	Varchar(50)	Not null
phone	Varchar(250)	Not null
address	text	Not null
items	Varchar(255)	Not null
total	float	Not null
status	Varchar(255)	Not null
date	Datetime(6)	Not null
User_id	int	Not null
Payment_method	Varchar(50)	Not null

# DFD(Data Flow Diagram)

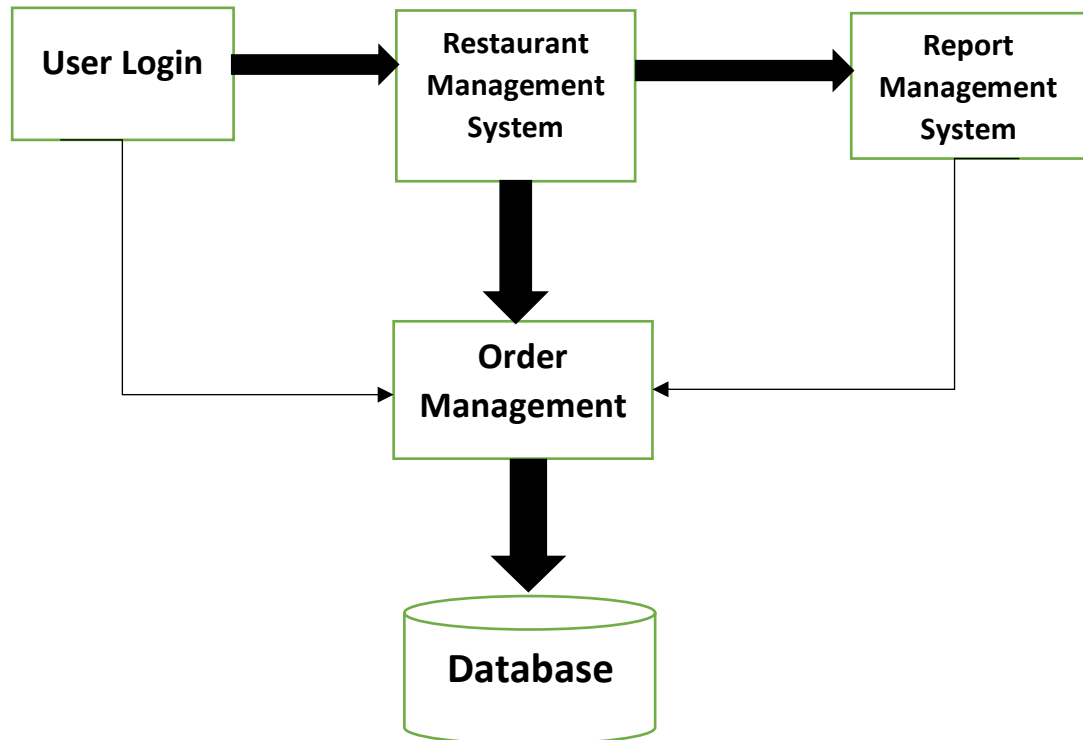
## ➤ Data Flow Diagram Symbol

Symbol	Description
	<b>Data Flow</b> : data flow are pipelines through the Packets of information
	<b>Entity</b> : entity are the object of the system
	<b>Process</b> : A process or task performed by the system
	<b>Data store</b> : A palce where data to be stored

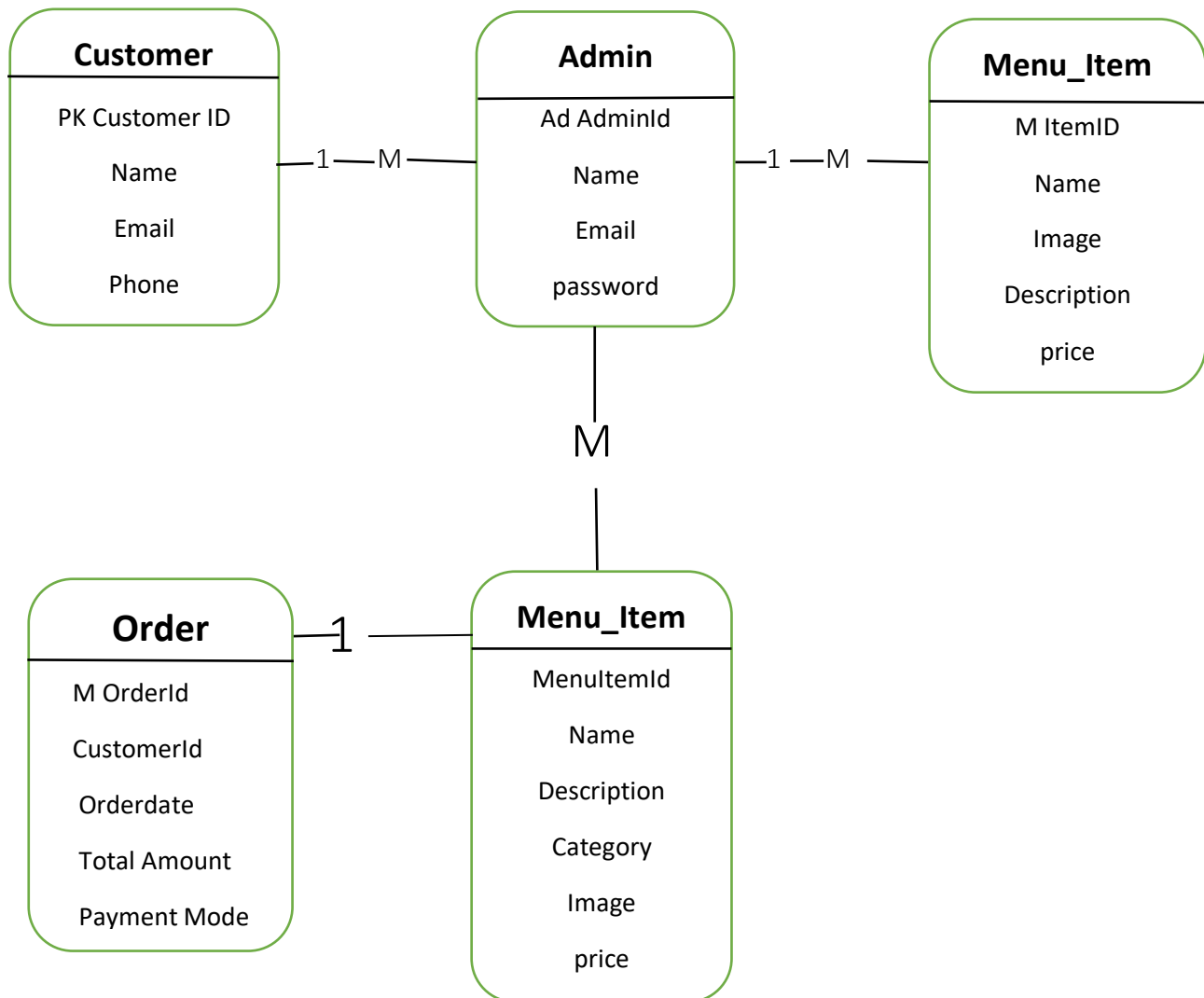
## ➤ 0 Level DFD



## ➤ 1 Level DFD



## ERD [Entity Relationship Diagram]



# Test Cases

## User Registration

Serial No.	Test Case	Precondition	Result	Status
1.	Verify a new customer can register successfully	Registration page is accessible	User registered successfully and redirected to login page	Pass/Fail
2	Verify validation for exiting email or phone	Exiting user email or phone	System shows email or phone already exists	Pass/Fail

## Login

Serial No.	Condition to be Check	Test Data	Expected Output	Remarks
1.	If Fields are empty	Value of form fields.	Alert the user to enter the fields and then proceed.	Pass/Fail
2	If incorrect username or password	Value of Textbox of Username & password	Alert user that "Invalid Username or password" Please Try Again	Pass/Fail

## Cart

Serial No.	Test Case	Precondition	Result	Status
1.	Verify add to cart functionality	Select item to add to cart	Item added to cart successfully	Pass/Fail
2.	Update cart	Verify that user can update item quantity	Cart updated successfully	Pass/Fail
3.	Remove cart Item	Verifying Removing Item from cart	item removed from cart	Pass/Fail

## Checkout

Serial No.	Test Case	Precondition	Result	Status
1.	At Least one item in cart	Add item to cart	Order Placed successfully	Pass/Fail
2	Enter valid mobile number or address	Please enter valid phone or address	Order Placed successfully	Pass/Fail
3.	Select Payment method	Please select valid payment method to checkout cart items	Order Placed successfully	Pass/Fail
4.	Check if user Logged in	User Must be login for checkout	Order Placed successfully	Pass/Fail

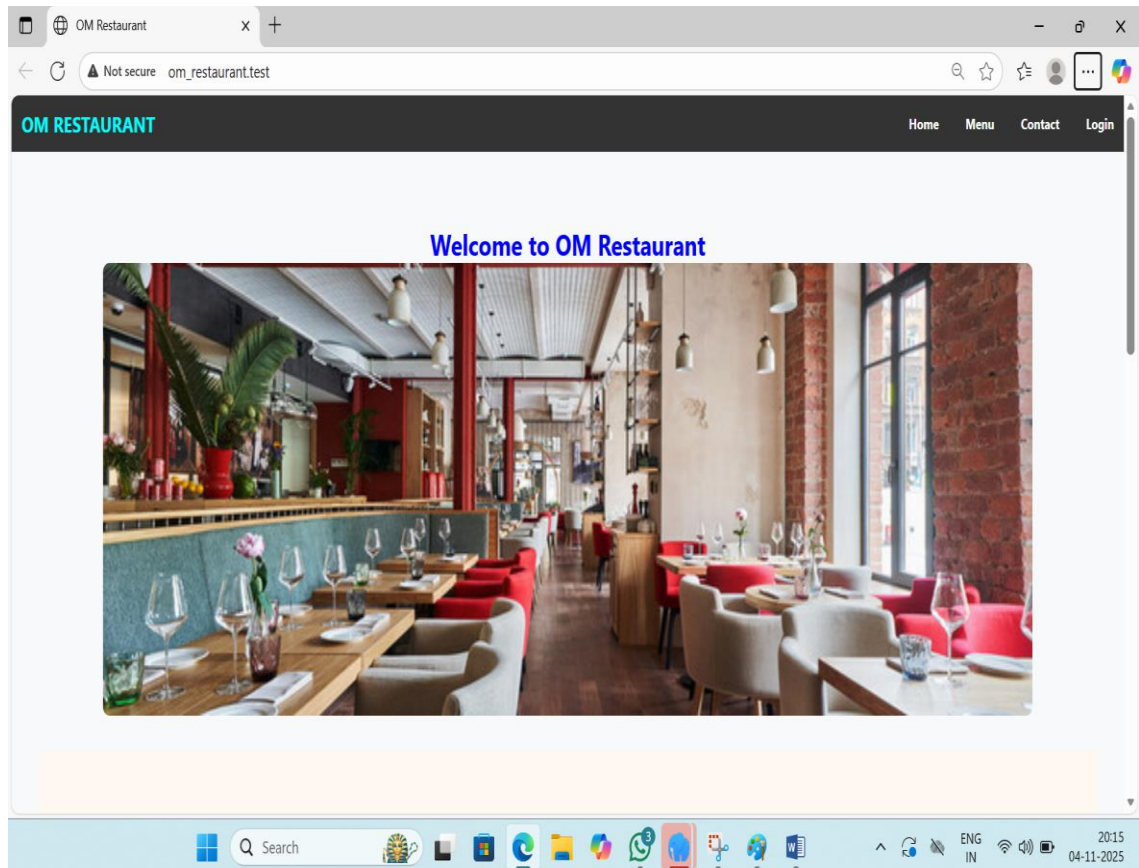
## Admin

Serial No.	Test Case	Precondition	Result	Status
1.	Add Menu item	1.Admin Logged in. 2.all fields must be filled by admin .	Menu item added successfully	Pass/Fail
2.	Update Menu item	1.Admin Logged in. 2.all fields must be filled by admin . 3. click on Update	Menu item updated successfully	Pass/Fail
3.	Delete Menu item	1.Admin Logged in. 2. click on Delete	Menu item deleted successfully	Pass/Fail
4.	Manage Orders	1.Admin Logged in. 2.click action dropdown 3. change Order status	Delivered/Pending/Cancelled/Delete	Pass/Fail
5.	Revenue Report	1.Admin Logged in. 2.click on time period dropdown 3. click on generate.	Display Revenue Report of selected time Period	Pass/Fail
6	Logout	Admin must be loggedin	Redirected to Login/Home page session destroyed	Pass/Fail



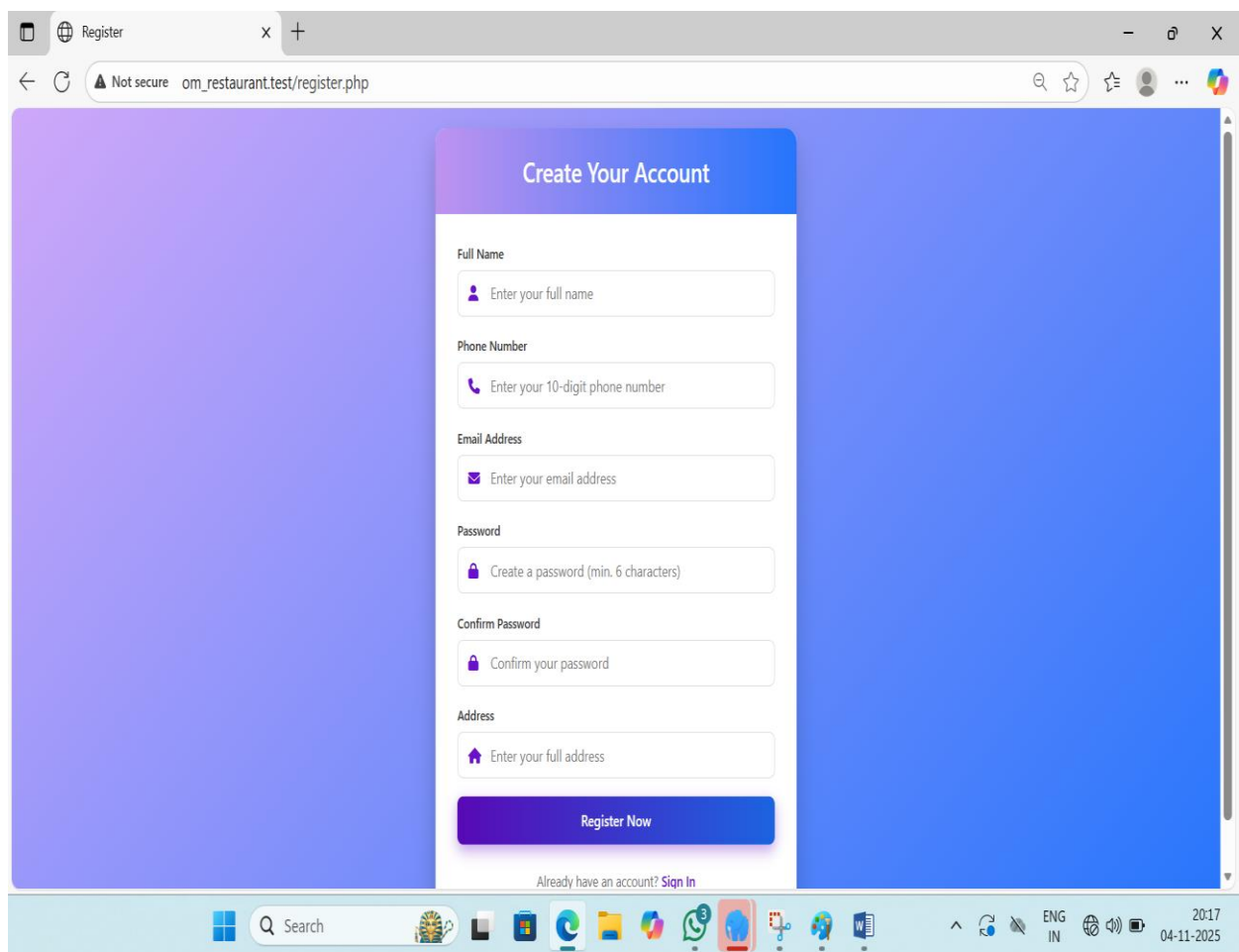
# Screenshots

## Home Page



- Display The Restaurant Home Page when You open the site.

# Register Page



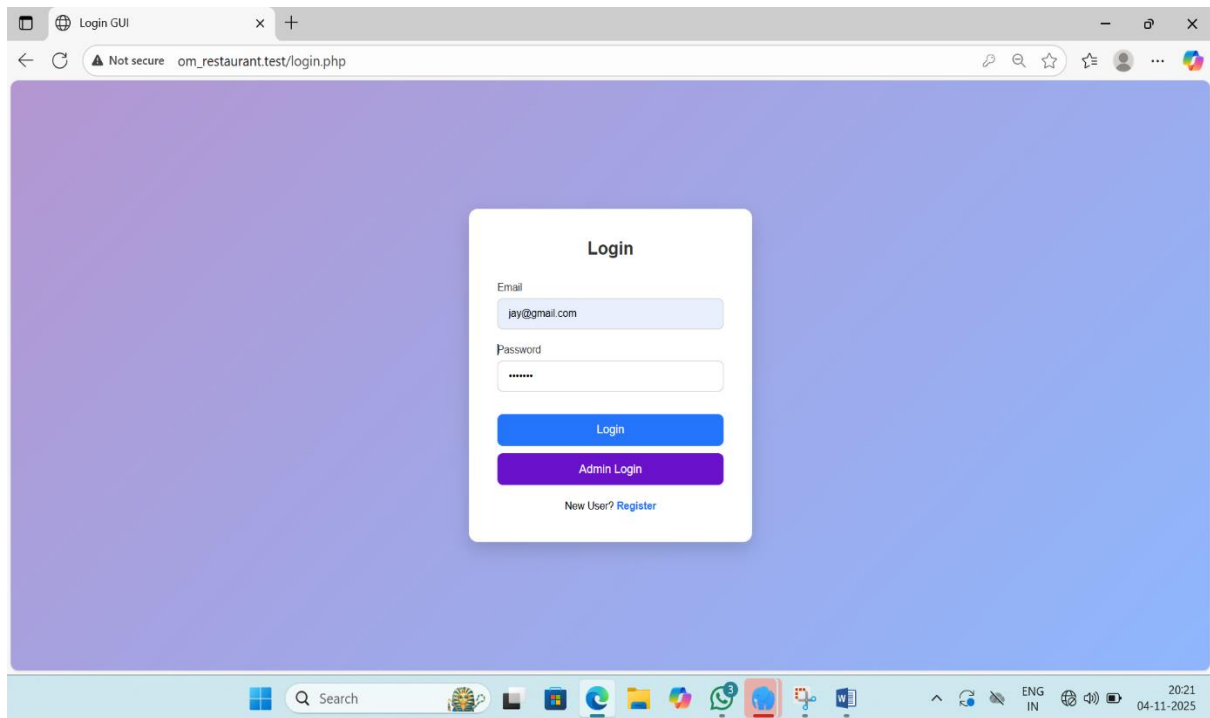
The screenshot shows a web browser window with a single tab titled 'Register'. The address bar displays 'om\_restaurant.test/register.php' with a 'Not secure' warning. The page features a blue gradient background. A central white card titled 'Create Your Account' contains the following fields:

- Full Name:** A text input field with a person icon and placeholder text 'Enter your full name'.
- Phone Number:** A text input field with a phone icon and placeholder text 'Enter your 10-digit phone number'.
- Email Address:** A text input field with an envelope icon and placeholder text 'Enter your email address'.
- Password:** A text input field with a lock icon and placeholder text 'Create a password (min. 6 characters)'.
- Confirm Password:** A text input field with a lock icon and placeholder text 'Confirm your password'.
- Address:** A text input field with a house icon and placeholder text 'Enter your full address'.

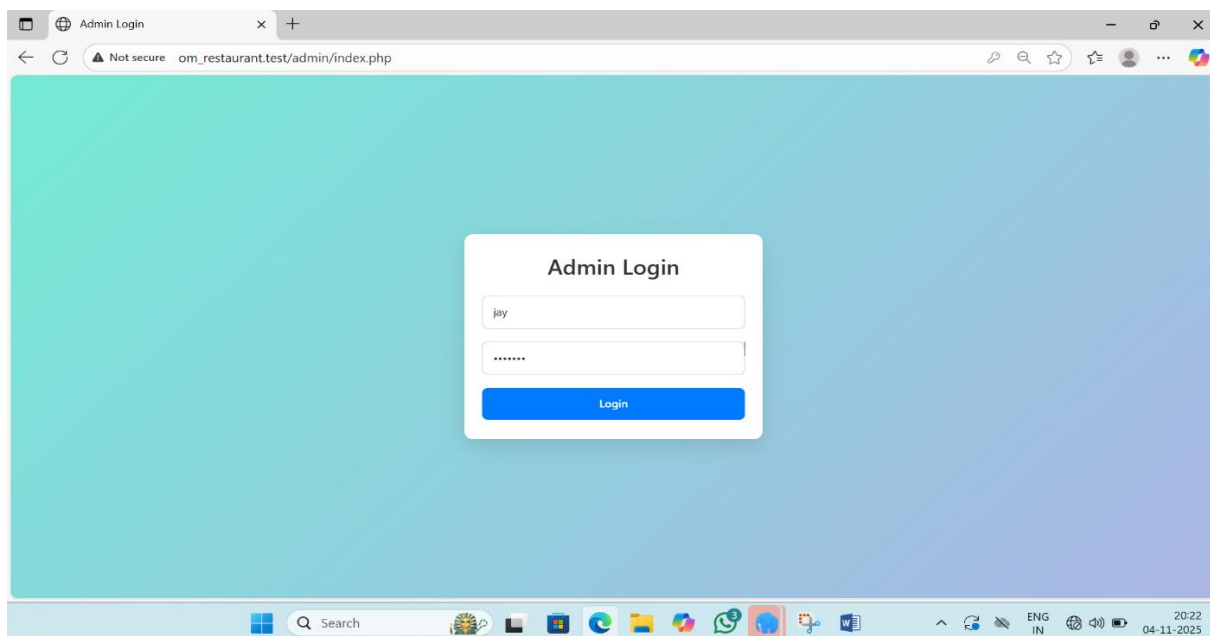
Below the fields is a blue 'Register Now' button. At the bottom of the card, there is a link: 'Already have an account? [Sign In](#)'. The Windows taskbar is visible at the bottom of the browser window, showing the search bar, task view button, and several application icons. The system clock in the bottom right corner shows '20:17' and '04-11-2025'.

- Enter name, valid email, phone, Password, conform password, address to register.
- Allows user to create account .

# Login Page

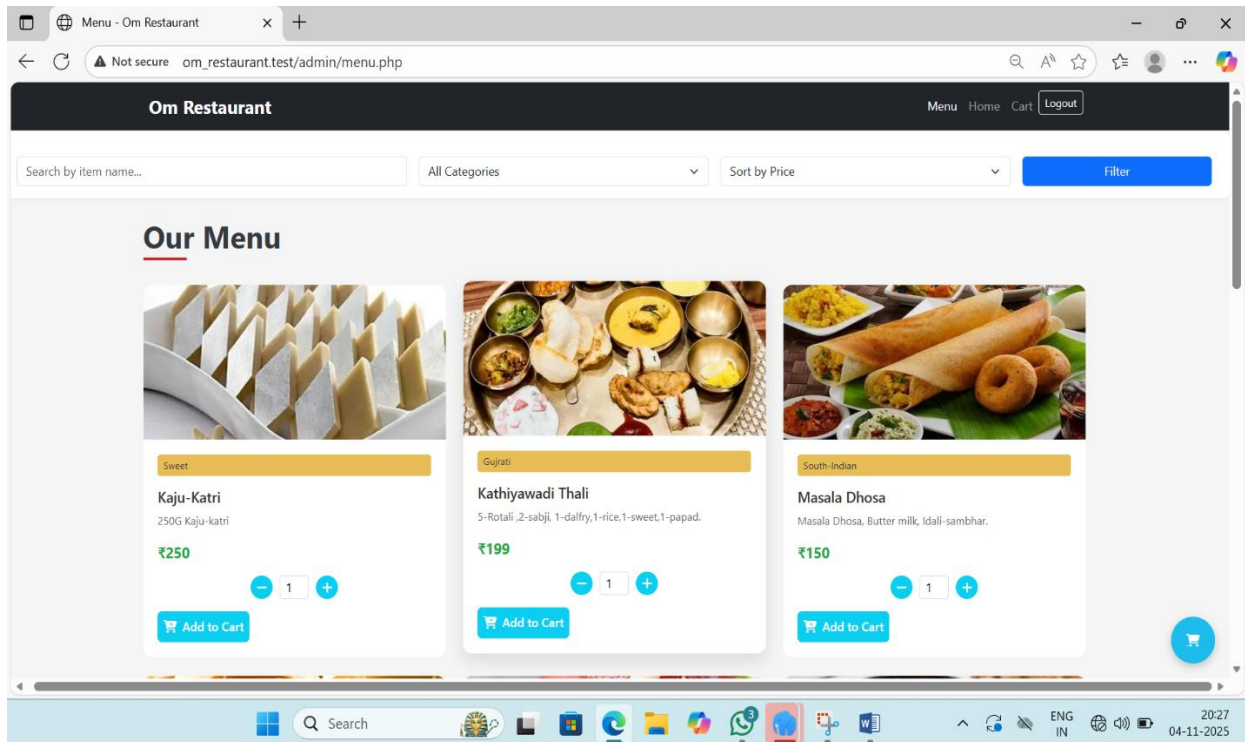


# Admin Login



- For User Authentication.
- Login Only Registered Users.
- After Login customer redirect to home page and can give order and Admin can perform administrative tasks.

# Menu Page



- Customer can view menu items and add to cart.
- Customer can add min 1 Item and Maximum 6 item to the cart.

# Cart Page

The screenshot shows the 'Om Restaurant' website's cart page. The browser address bar indicates the URL is 'om\_restaurant.test/admin/cart.php'. The page header includes 'Om Restaurant', 'Menu', 'Cart', 'Orders', and a 'Logout' button. The main heading is 'Your Cart'. Below it is a table with the following data:

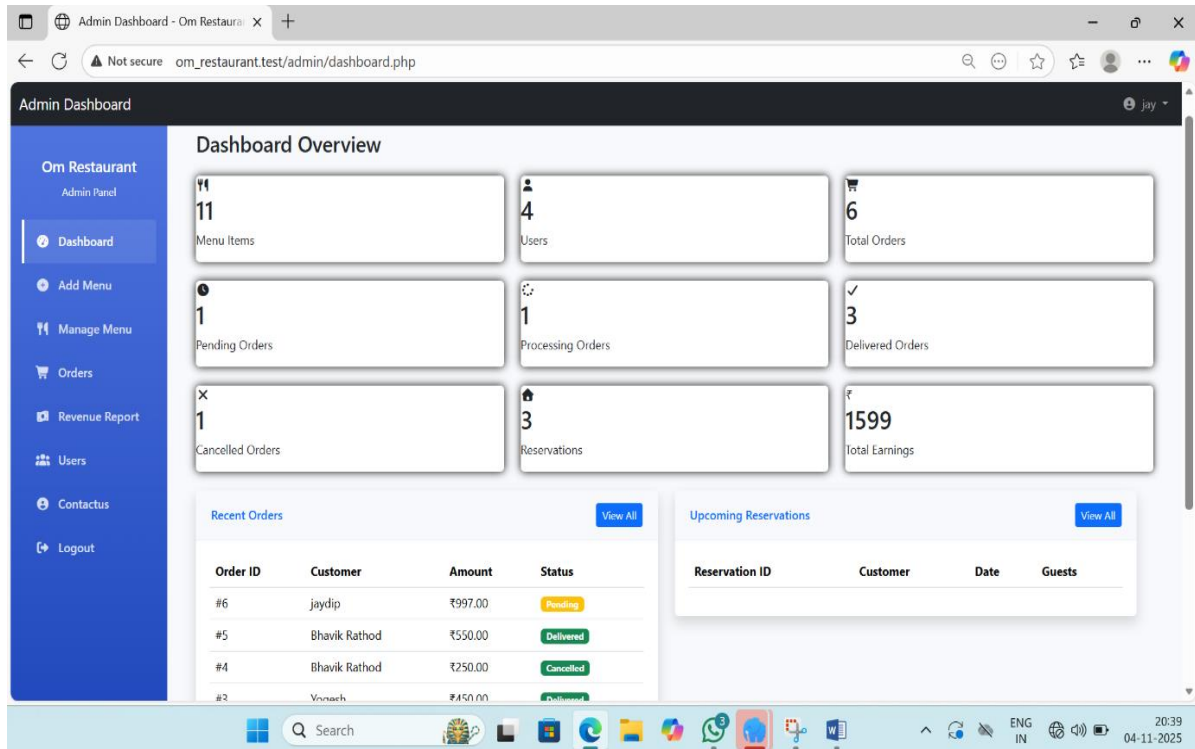
Item	Price (₹)	Quantity	Subtotal (₹)	Action
Kaju-Katri	250.00	1	250.00	<a href="#">Remove</a>
Rajbhog-Shrikhand	150.00	1	150.00	<a href="#">Remove</a>
Kathiyawadi Thali	199.00	3	597.00	<a href="#">Remove</a>
<b>Total</b>			<b>₹997.00</b>	

Below the table are two buttons: 'Clear Cart' (yellow) and 'Add More Items' (blue). The 'Checkout' section follows, with fields for 'Customer Name' (filled with 'jaydip'), 'Phone' (filled with '9234567890'), and 'Address' (filled with 'Bapa sitaram chowk, Raiya road ,Rajkot.'). The 'Payment Method' section has two options: 'Cash on Delivery' (selected) and 'Online Payment (Disabled)'. A green 'Place Order' button is at the bottom of the form.

The screenshot shows the 'Om Restaurant' website's cart page after a successful checkout. The browser address bar is the same. The page header is identical. The main heading is 'Your Cart'. A green success message banner reads: 'Order placed successfully! Your Order ID is ORD20251104150431327'. Below this, it says 'Your cart is empty.' and there is a 'Back to Menu' button.

- Customer must be login for checkout cart items.
- Enter all fields for checkout.
- Please select payment method for checkout.

# Admin Dashboard



- This admin dashboard saw all administrative activities of the Restaurant System.
- Admin can perform all administrative from this Dashboard.

# Add Menu Item

The screenshot shows a web browser window with the URL `om_restaurant.test/admin/dashboard.php`. The page is titled "Admin Dashboard" and features a sidebar menu on the left with options: "Om Restaurant Admin Panel", "Dashboard", "Add Menu" (highlighted), "Manage Menu", "Orders", "Revenue Report", "Users", "Contactus", and "Logout". The main content area is titled "Add Menu" and contains a form titled "Add New Menu Item". The form fields are: "Item Name" (text input with value "Rajbhog Shrikhand"), "Description" (text input with value "500-G Rajbhog Shrikhand"), "Image" (file upload button labeled "Choose File" and text "shrikhand"), "Price (₹)" (text input with value "150"), and "Category" (dropdown menu with value "Sweet"). A green "Add Menu Item" button is at the bottom of the form. The footer of the page says "Copyright © Om Restaurant 2025". The Windows taskbar at the bottom shows the date "04-11-2025" and time "20:43".

- Admin can add Menu items from this Page.
- All fields must be required for add menu item.
- Choose valid image format of menu item.

# Manage Menu

Admin Dashboard - Om Restaurant

Admin Panel

Dashboard

Add Menu

Manage Menu

Orders

Revenue Report

Users

Contactus

Logout

## Manage Menu

### Menu Items

ID	Item Name	Description	Image	Price	Category	Actions
1	Kaju-Katri	250G Kaju-katri		₹250.00	Sweet	<a href="#">Update</a> <a href="#">Delete</a>
2	Kathiawadi Thali	5-Rotali, 2-sabji, 1-dal fry, 1-rice, 1-sweet, 1-papad.		₹199.00	Gujrati	<a href="#">Update</a> <a href="#">Delete</a>
3	Masala Dhosa	Masala Dhosa, Butter milk, Idali-sambhar.		₹150.00	South-Indian	<a href="#">Update</a> <a href="#">Delete</a>
4	Pani-puri	8-pani puri		₹25.00	Fast-Food	<a href="#">Update</a> <a href="#">Delete</a>
5	Gulab Jamun	500G Gulab-Jamun		₹150.00	Sweet	<a href="#">Update</a> <a href="#">Delete</a>
6	Kaju Butter Masala	250G-kaju Butter Masala		₹150.00	Punjabi	<a href="#">Update</a> <a href="#">Delete</a>
7	Butter-Nan	3-Butter Nan		₹150.00	Punjabi	<a href="#">Update</a> <a href="#">Delete</a>

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20:45 04-11-2025

- Admin can update and delete menu items from manage menu page.



# Orders

**Admin Dashboard**

**Order Management**

Order ID	Customer	Phone	Address	Items	Total	Status	Date	Actions	Bill
6	Jaydip	9234567890	Bapa sitaram chowk, Rajiya road ,Rajkot.	Kaju-Katri x 1 x ₹250.00 Rajbhog-Shrikhand x 1 x ₹150.00 Kathiyawadi Thali x 3 x ₹199.00	₹997.00	Pending	04 Nov 2025	Actions	Generate Bill
5	Bhavik Rathod	9824323564	Bapa sitaram chowk, Rajiya road ,Rajkot.	Chapdi-Undhiyu x 2 x ₹150.00 Kaju-Katri x 1 x ₹250.00	₹550.00	Delivered	03 Nov 2025	Actions	Generate Bill
4	Bhavik Rathod	9824323564	Bapa sitaram chowk, Rajiya road ,Rajkot.	Punjabi Thali x 1 x ₹250.00	₹250.00	Cancelled	03 Nov 2025	Actions	Generate Bill
3	Yogesh	9824223776	Astron chowk, Rajkot .	Gulab Jamun x 1 x ₹150.00 Butter-Nan x 1 x ₹150.00 Kaju Butter Masala x 1 x ₹150.00	₹450.00	Delivered	03 Nov 2025	Actions	Generate Bill
2	Jaydip	9824323564	Bapa sitaram chowk, Rajiya road ,Rajkot.	Masala Dhosa x 1 x ₹150.00	₹150.00	Processing	03 Nov 2025	Actions	Generate Bill

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- Admin Can view all orders.
- Admin can update order status from this page.
- Admin can generate order bill.

# Revenue Report

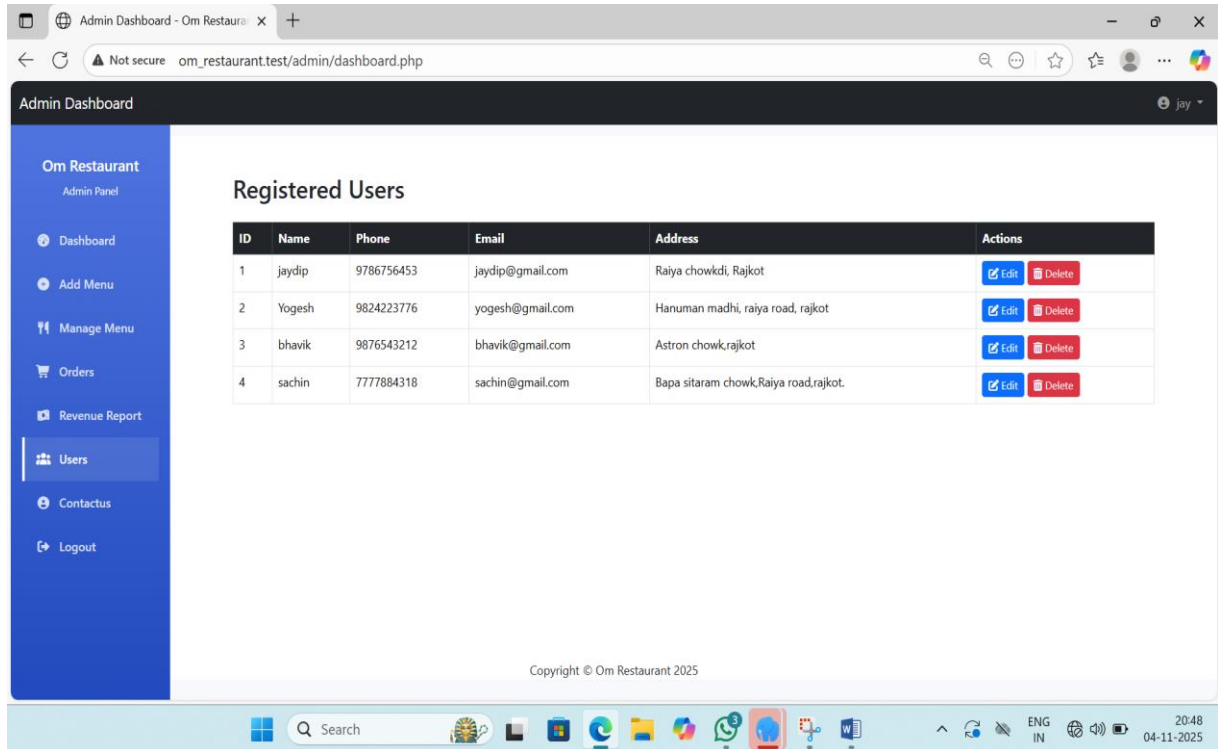
The screenshot shows the Admin Dashboard for 'Om Restaurant'. The left sidebar contains navigation links: Dashboard, Add Menu, Manage Menu, Orders, Revenue Report (selected), Users, Contactus, and Logout. The main content area is titled 'Revenue Report' and includes a 'Select Time Period' dropdown set to 'Current Year' and a 'Filter' button. Below this, the 'Total Revenue: ₹1,599.00' is displayed. A table lists the following orders:

Order ID	Customer	Items	Total (₹)	Date
5	Bhavik Rathod	Chapdi-Undhiyu × ₹150.00 × 2 Kaju-Katri × ₹250.00 × 1	550.00	03 Nov 2025, 11:12 AM
3	Yogesh	Gulab Jamun × ₹150.00 × 1 Butter-Nan × ₹150.00 × 1 Kaju Butter Masala × ₹150.00 × 1	450.00	03 Nov 2025, 11:10 AM
1	Jaydip	Kaju-Katri × ₹250.00 × 1 Rajbhog-Shrikhand × ₹150.00 × 1 Kathiyawadi Thali × ₹199.00 × 1	599.00	03 Nov 2025, 11:08 AM

Copyright © Om Restaurant 2025

- Admin can Generate Revenue report of the selected time period from Revenue Report page.

# Users



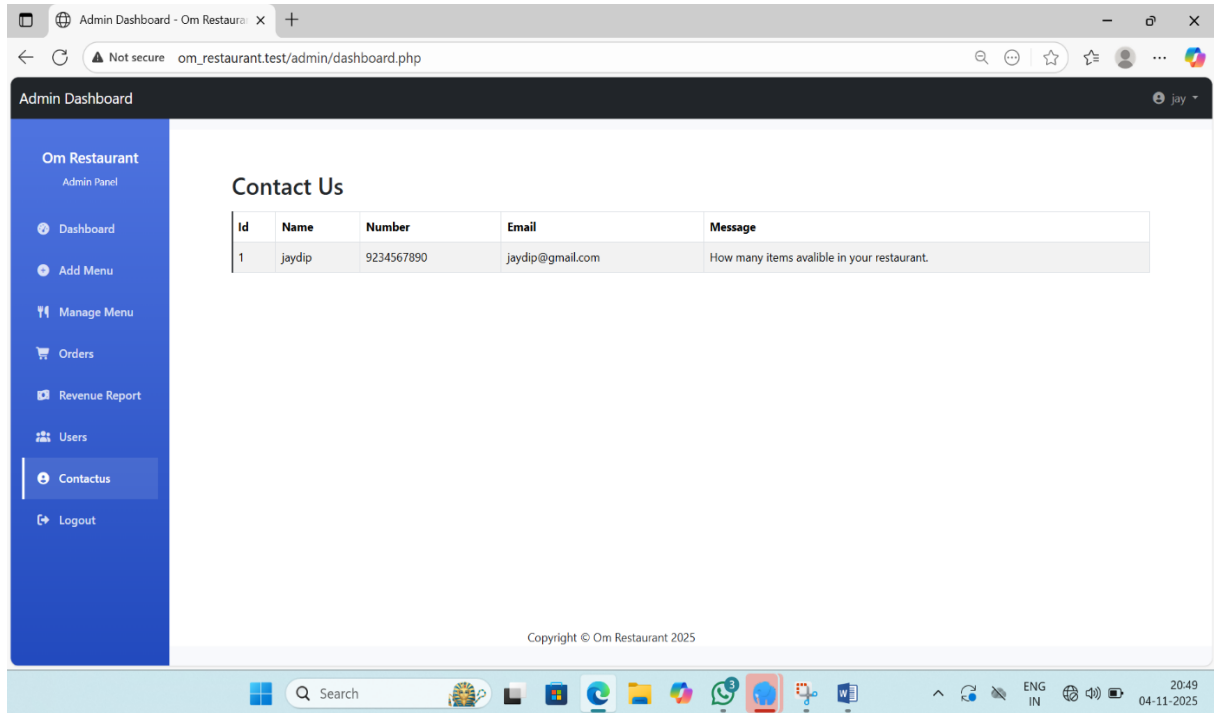
The screenshot displays the Admin Dashboard for 'Om Restaurant'. The left sidebar contains navigation links: Dashboard, Add Menu, Manage Menu, Orders, Revenue Report, Users (highlighted), Contactus, and Logout. The main content area is titled 'Registered Users' and features a table with the following data:

ID	Name	Phone	Email	Address	Actions
1	jaydip	9786756453	jaydip@gmail.com	Raiya chowkdi, Rajkot	<a href="#">Edit</a> <a href="#">Delete</a>
2	Yogesh	9824223776	yogesh@gmail.com	Hanuman madhi, raiya road, rajkot	<a href="#">Edit</a> <a href="#">Delete</a>
3	bhavik	9876543212	bhavik@gmail.com	Astron chowk,rajkot	<a href="#">Edit</a> <a href="#">Delete</a>
4	sachin	7777884318	sachin@gmail.com	Bapa sitaram chowk,Raiya road,rajkot.	<a href="#">Edit</a> <a href="#">Delete</a>

At the bottom of the dashboard, there is a copyright notice: 'Copyright © Om Restaurant 2025'. The browser's taskbar at the bottom shows the Windows logo, a search bar, and various application icons, along with system icons for network, volume, and battery, and the date/time '20:48 04-11-2025'.

- Admin can see all the registered users.
- Admin can update and delete users.

# Contact us



- Admin can view all the messages send by users.
- Admin can replay all the messages send by users.

# Limitations

## 1.Limited Payment Integration:

The system may only support basic or manual payment methods(like cod)and might not include secure online payment getways.

## 2.No Real-Time Order Tracking:

Customer cannot track their order status(e.g. "order being prepared" ,"out for delivery").

## 3.Single Admin Access:

The system allow only one admin account, which limits scalability and management.

## 4.No Role-Based Access control:

There's no separation of roles such as cashier, chef, or manager –all admin users have the same privileges.

## 5.Lack of Inventory Management:

The system does not track ingredient stock or notify when an item runs out.

## 6.No AI or Recommendation System:

The system doesn't suggest dishes based on customer preferences or order history.

## 7.No Multi-Restaurant Support:

Designed for a single restaurant. Cannot handle multiple restaurant branches or locations.

## 8.Security Constraints:

Basic Login authentication may not include encryption or protection against SQL injection and XSS attacks.

## Conclusion

- The OM Restaurant Management System successfully automates the key operations of a restaurant, such as customer registration, login, menu browsing, order placement, and administrative control. It provides a convenient platform for customers to order food online and for administrators to manage menu items, customer details, and orders efficiently.
- By implementing this system, the traditional manual process of taking and managing orders is simplified, reducing errors and saving time. The project also enhances the customer experience through an easy-to-use interface and improves operational efficiency for the restaurant staff.
- Although the current system fulfills the essential requirements of a restaurant's online management, there is still scope for future improvements such as integrating online payment gateways, real-time order tracking, and advanced analytics. Overall, this project demonstrates the effective use of PHP, MySQL, HTML, CSS, and JavaScript to create a reliable and user-friendly restaurant management application.

# Feature Enhancement

## 1. Online Payment Gateway Integration

Integrate secure payment methods like Razorpay, PayPal, or Stripe for online payments using credit/debit cards, UPI, or wallets.

## 2. Real-Time Order Tracking

Allow customers to track their order status live (e.g., “Order Confirmed”, “Being Prepared”, “Out for Delivery”, “Delivered”).

## 3. Multi-Admin and Role-Based

Access Introduce multiple admin roles such as Manager, Chef, Delivery Staff, each with different privileges.

## 4. Inventory and Stock Management

Track ingredients and menu items to automatically disable out-of-stock dishes and generate restock alerts.

## 5. Customer Feedback and Rating System

Enable customers to rate dishes and provide feedback to improve service quality.

## 6. Table Reservation System

Add a feature for customers to book tables online for dine-in service in advance.

## 7. Discounts and Coupon Management

Include promotional offers, discounts, and coupon code features for loyal or first-time customers.

## 8. Email & SMS Notifications

Send automatic notifications to customers about order confirmation, delivery updates, or promotional offers.

## 9. Mobile Application Integration

Develop a mobile-friendly app version for Android/iOS with push notifications and easy ordering.

### **10. AI-Based Recommendation**

System Suggest dishes to customers based on previous orders, preferences, and popular items.

### **11. Multi-Restaurant Support**

Expand the system to manage multiple restaurant branches under one platform.

### **12. Customer Loyalty Program**

Introduce reward points or membership systems for repeat customers.

### **13. Enhanced Security Features**

Use password hashing, CAPTCHA, and secure login mechanisms to protect user data and prevent attacks.

## **Webliography**

- <https://getbootstrap.com/>
- <https://stackoverflow.com/>