

Report on INDIAN RESTAURANT



Web – programming
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1. INTRODUCTION

The **Indian Restaurant & Delivery Website** is a **web-based food ordering and delivery system** developed to offer users a convenient, user-friendly platform for browsing Indian dishes, placing orders, and tracking their delivery status.

The primary **objectives** of the project are:

- To provide customers with a **seamless online ordering experience**.
- To enable restaurant staff/admins to manage products, orders, and customer interactions efficiently.
- To simulate the **real-world restaurant workflow** through an online system.

By integrating **modern web technologies**, the system ensures a **secure, scalable, and efficient solution** that can be extended for future use cases like **mobile applications** and **payment integration**.

2. WEB PROGRAMMING TECHNOLOGIES & ARCHITECTURE

Front-End Development

The **frontend** is designed to be **intuitive, visually appealing, and responsive**.

- **HTML5**: Defines the structure of web pages (homepage, menu, cart, login). It ensures semantic markup for and accessibility.
 - Examples: Forms (login/register), media (dish images), meta tags, and headers.
- **CSS3**: Provides styling with an **Indian food theme** (orange, red, warm colors).

- Examples: Flexbox & Grid for layout, transitions for hover effects, media queries for responsiveness.
- **JavaScript:** Used for interactivity and dynamic elements.
 - Examples: Cart updates without refreshing, form validation, filtering menu items, error handling.

Back-End Development

The **backend** powers business logic and data handling.

- **PHP with PDO:** Handles authentication, product CRUD operations, order processing, and admin management. PDO ensures **secure database queries**.
- **XAMPP Stack (Apache + PHP + MySQL):** Used for local deployment and testing. Apache serves pages, PHP processes requests, MySQL stores persistent data.

Database Management

- MySQL functions as the **Relational Database Management System (RDBMS)**.
- It manages user details, product catalog, order history, and cart information.
- **SQL Queries:** Used for fetching, inserting, and updating records.

Session Management

- **PHP Sessions** are used to maintain user login state.
- Ensures customers stay logged in while browsing, adding items, and placing orders.
- Session IDs track unique users securely.

3. CORE FEATURES AND FUNCTIONALITY

User Side (Frontend)

- 1. User Registration and Authentication**
 - Secure signup/login system with validation.
 - Profile management (update info, change password).
 - 2. Homepage**
 - Features highlighted Indian dishes.
 - Navigational menus with categories (Veg, Non-Veg, Beverages, Desserts).
 - 3. Product Catalog and Search**
 - Categorized menu with dish filtering.
 - Search option by keywords.
 - 4. Shopping Cart and Checkout**
 - Add/remove dishes, adjust quantities.
 - Real-time total calculation.
 - Checkout form with delivery address.
 - 5. Order Tracking & History**
 - Track orders with statuses: *Pending, Preparing, Confirmed, Delivered*.
 - View past order history.
 - 6. Responsive Design**
 - Works on mobile, tablet, and desktop.
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Admin Side (Backend)

- 1. Admin Dashboard**
 - Overview of total orders, revenue, and customer details.
- 2. Product Management System**
 - Add, edit, and delete menu items.
 - Upload images, set descriptions and prices.
- 3. Order Management**
 - View all customer orders.
 - Update order statuses dynamically.

4. **Customer Management**
 - Access customer order history.
 - View account details.
 5. **Sales Analytics**
 - Basic performance tracking.
 - Insights into most-ordered dishes.
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4. DETAILED IMPLEMENTATION

Code Structure and Organization

- **index.php** → Homepage.
- **login.php / register.php** → Authentication system.
- **menu.php** → Product catalog.
- **cart.php** → Cart management.
- **checkout.php** → Order placement.
- **orders.php** → Customer order history.
- **admin_dashboard.php** → Admin overview.
- **admin_orders.php** → Order management.
- **admin_products.php** → Product CRUD operations.

Key Functional PHP Files

- **config.php** → Database connection.
- **session.php** → User session handling.
- **functions.php** → Common reusable functions.

Database Schema and Design

- **Users Table:** Stores customer login & details.
- **Products Table:** Dish details (name, price, image, category).
- **Orders Table:** Tracks orders, amounts, and statuses.
- **Cart Table:** Temporary items before checkout.
- **Admin Table:** Stores admin credentials.

6. SCREENSHOTS AND USER INTERFACE

The screenshot shows a web browser window titled "Manage Orders" with the URL "localhost:5000/manage_orders". The page has a header with links for "Dashboard", "Manage Products", "Manage Orders", and "Logout". Below the header is a section titled "All Orders" containing a table with the following data:

Order ID	Customer	Amount	Status	Date	Actions
#7	vinay	₹690.00	Delivered	27 Aug 2025	View Item
#6	vinay	₹1775.00	Pending	27 Aug 2025	View Item
#5	vinay	₹320.00	Pending	27 Aug 2025	View Item
#4	vinay	₹300.00	Confirmed	27 Aug 2025	View Item
#3	vinay	₹3540.00	Pending	13 Jun 2025	View Item
#2	vinay	₹405.00	Preparing	13 Jun 2025	View Item
#1	vinay	₹10990.00	Pending	13 Jun 2025	View Item

The screenshot shows a web browser window titled "Admin Dashboard" with the URL "localhost:5000/admin_dashboard". The page has a header with links for "Dashboard", "Manage Products", "Manage Orders", and "Logout". Below the header is a section with three summary boxes:

Total Users	Total Products	Total Orders
2	11	7

Below the summary boxes is a section titled "Recent Orders" containing a table with the following data:

Order ID	Customer	Products	Amount	Status	Date
#7	vinay	Panner Malaihan (x1), Lassi (x6)	₹690.00	Pending	27 Aug 2025
#6	vinay	Samosa (x5)	₹1775.00	Pending	27 Aug 2025
#5	vinay	Samosa (x6)	₹320.00	Pending	27 Aug 2025
#3	vinay	Veg Biryani (x10), Naan (x1), Samosa (x1)	₹3540.00	Pending	13 Jun 2025
#2	vinay	Samosa (x1), Lassi (x1)	₹405.00	Preparing	13 Jun 2025

The screenshot shows a web browser window titled "Create Your Account" with the URL "localhost:5000/create_account". The page has a header with links for "Dashboard", "Manage Products", "Manage Orders", and "Logout". The main content area is titled "Create Your Account" and contains the following form fields:

Join Spice Paradise and start ordering delicious Indian food!

Full Name:

Email Address:

Phone Number:

Delivery Address:

Password:

[Create Account](#)

Welcome Back!

Login to your Spice Paradise account.

Email Address:

Password:

Login

Don't have an account? [Register here](#)

[Admin Login](#)

[← Back to Homepage](#)

Spice Paradise

Home Menu Login Register

Our Delicious Menu

All Items Appetizers Beverages Breads Desserts Main Course Rice & Biryani

chicken tikka
grilled chicken with masala
₹100.00 [Login to order](#)

Samosa
Crispy triangular pastry filled with spiced potatoes
₹45.00 [Login to order](#)

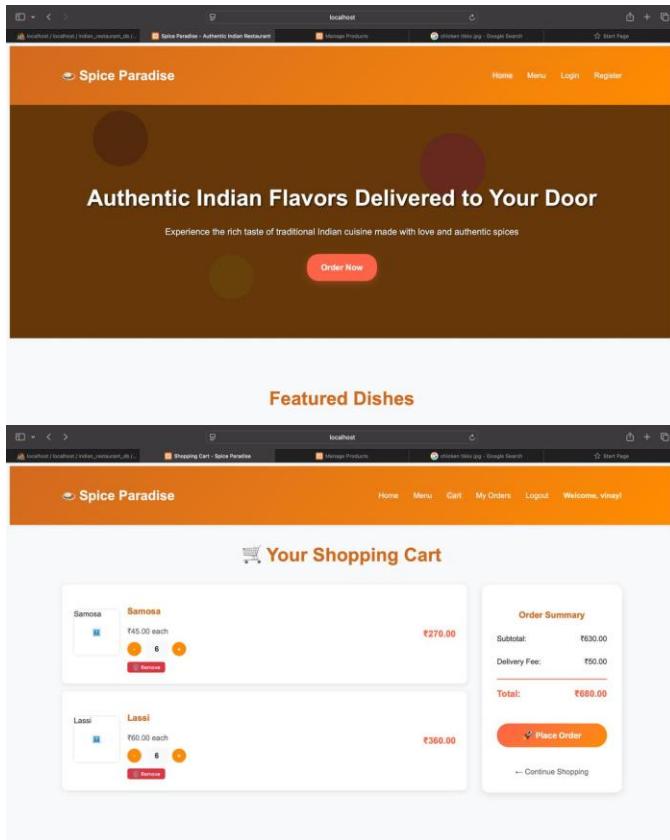
Lassi
Traditional yogurt-based drink
₹60.00 [Login to order](#)

Featured Dishes

Samosa
APPETIZERS
Crispy triangular pastry filled with spiced potatoes
₹45.00 [Login to order](#)

chicken tikka
APPETIZERS
grilled chicken with masala
₹100.00 [Login to order](#)

Paneer Makhani
MAIN COURSE
Rich and creamy cottage cheese curry
₹280.00 [Login to order](#)



6. CONCLUSION AND FUTURE ENHANCEMENTS

The **Indian Restaurant & Delivery Website** provides a robust, scalable, and user-friendly platform for **online food ordering and management**.

Current Achievements:

- Secure login and registration.
- User-friendly **menu and cart system**.
- Efficient **order processing**.
- Comprehensive **admin dashboard**.

Future Enhancements:

- **Payment Integration** (UPI, Credit/Debit, PayPal).
- **Mobile Application** for iOS & Android.
- **Blogs & Recipes** for engaging food-related content.
- **Customer Reviews & Ratings** for dishes.
- **Push Notifications/Email Alerts** for order updates.
- **AI-driven Recommendations** (personalized menu suggestions).