

# Restaurant Menu & Order Management System

## 1. Project Overview

This report documents the development of a full-stack Restaurant Menu & Order Management System built using the MERN stack (MongoDB, Express.js, React.js, Node.js). It includes the following major features:

- Dynamic restaurant menu with images, names, categories, and prices.
- Customer ordering system with cart and checkout functionality.
- Real-time order display in the admin dashboard.
- Admin panel for managing menu items and customer orders.
- Analytics dashboard for insights on orders and revenue trends.

Technologies used:

- Frontend: React.js with Tailwind CSS
- Backend: Node.js + Express
- Database: MongoDB
- Charts: Chart.js

## 2. Features & Modules

### 2. Key Functional Modules

- Customer Menu Page
  - Users can browse dishes categorized (e.g., North Indian, South Indian).
  - Option to add dishes to the cart and place orders.

# Restaurant Menu & Order Management System

## - Order System

- Cart persists user selections and allows for item quantity updates.
- Orders are submitted to the backend with relevant metadata.

## - Admin Dashboard

- View all incoming orders in real-time.
- Manage and update menu items (CRUD operations).

## - Analytics Dashboard

- Uses Chart.js to display total sales and daily order counts.
- Helps restaurant staff track performance trends.

## - Deployment

- Backend hosted on Render.
- Frontend can be deployed to Vercel or Netlify.



# Restaurant Menu & Order Management System

## 4. Admin Order Manager

Restaurant System

MenuOrdersAdminAnalytics

Menu Manager

Order Manager

Customer Orders

Order #1

Status: Placed

Aloo Paratha × 1

Chicken 65 × 1

Order #2

Status: Placed

Biryani × 2

Chole Bhature × 1

Order #3

Status: Placed

Aloo Paratha × 1

Chicken 65 × 1

Order #4

Status: Placed

Biryani × 1

Chole Bhature × 1

Gulab Jamun × 1

Order #5

Status: Placed

Biryani × 1

# Restaurant Menu & Order Management System

## 5. Orders Display View

← ↺ localhost:3000/orders

Paneer Butter Masala

Veg

₹250

vegetarian

Add to Cart

Rajma Chawal

North Indian

₹130

vegetarian

Add to Cart

Samosa

Snacks

₹20

vegan

Add to Cart

Veg Biryani

Veg

₹180

vegetarian

Add to Cart

Pani Puri

Snacks

₹30

vegan

Add to Cart

Rasgulla

Dessert

₹50

vegetarian

Add to Cart

Tandoori Chicken

Non-Veg

₹300

spicy

Add to Cart

Pav Bhaji

Snacks

₹90

vegetarian

Add to Cart

Rogan Josh

Non-Veg

₹320

spicy

Add to Cart

Vada Pav

Snacks

₹25

vegan

Add to Cart

Your Cart

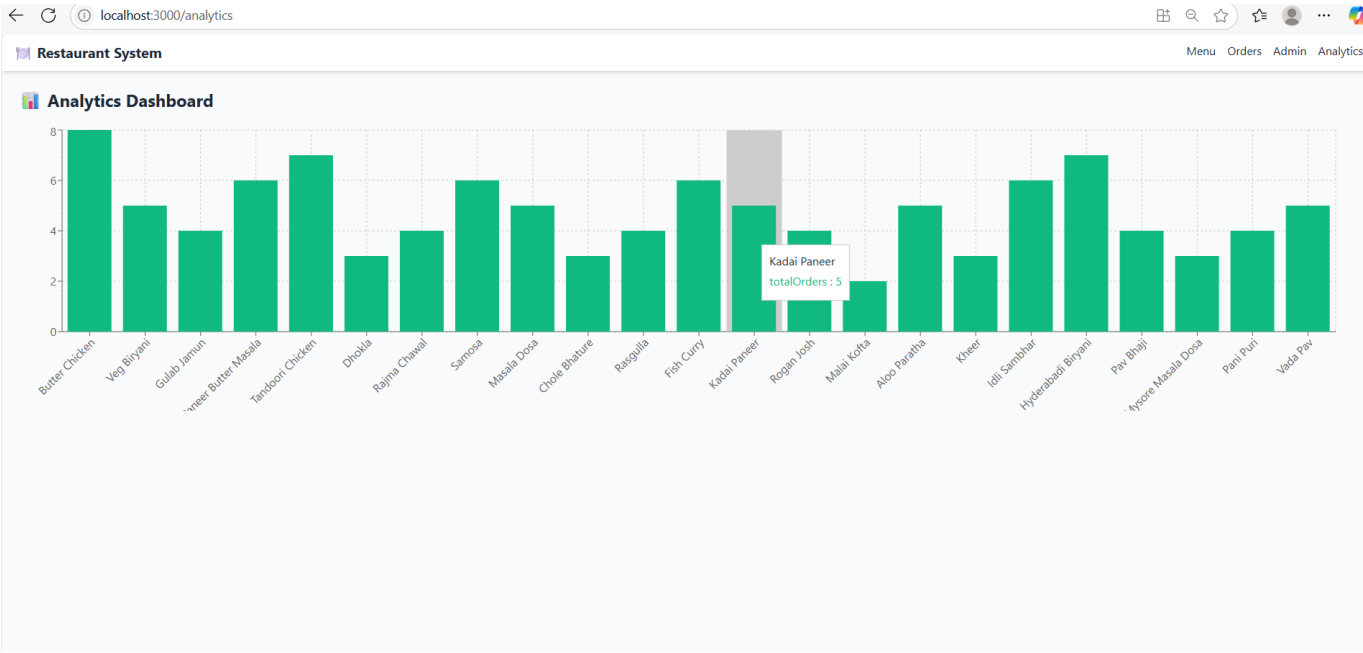
• 1x Aloo Paratha

• 1x Chicken 65

Place Order

# Restaurant Menu & Order Management System

## 6. Analytics Dashboard with Chart.js



## 7. Conclusion

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The Restaurant Menu & Order Management System provides a complete solution for food businesses to manage their menus, take customer orders, and track performance in real-time. The system is scalable and can be extended further to include features like online payments, delivery tracking, and customer feedback.

Thank you.