

NEXT GEN EMPLOYABILITY PROGRAM

CREATING A
FUTURE-READY
WORKFORCE

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CAPSTONE PROJECT SHOWCASE

Project Title

**A Service for Delivering Food (Zomato Clone) with
MERN Technology**

Abstract | Problem Statement | Project Overview | Proposed Solution |
Technology Used | Modelling & Results | Conclusion | Q&A

Abstract

1

A MERN-based food delivery platform connecting users with restaurants for seamless online ordering.

2

Features JWT authentication, real-time order tracking, online payments, and restaurant management.

3

Built with React.js for UI, Node.js & Express.js for backend, and MongoDB for scalable data storage.

4

Aims to provide a user-friendly, efficient, and scalable food delivery experience.

Problem Statement

- With the increasing demand for online food delivery services, users often face issues such as slow order processing, lack of real-time tracking, limited restaurant options, and inefficient payment systems. Many small and medium-sized restaurants struggle to establish an online presence due to high platform fees and complex technical requirements. Additionally, existing solutions lack seamless restaurant management, user engagement, and order tracking features.
- This project aims to develop a scalable, user-friendly, and cost-effective Zomato-like food delivery platform using the MERN stack, addressing these challenges by providing real-time order tracking, secure online payments, efficient restaurant management, and an intuitive user interface for an enhanced food ordering experience.



Project Overview

- The Zomato Clone is a MERN-based food delivery platform that allows users to browse restaurants, order food, and make secure payments. It features JWT authentication, real-time order tracking (WebSockets), online payments (Stripe/Razorpay), and restaurant management. The system includes user, restaurant, and admin modules for efficient order processing. Built with React.js, Node.js, Express.js, and MongoDB, it ensures a scalable, user-friendly, and seamless food ordering experience.




Proposed Solution

- To address the challenges in online food delivery, we propose a MERN-based Zomato Clone that offers a seamless, efficient, and scalable solution.
- User-Friendly Interface: A responsive React.js frontend with easy navigation for browsing restaurants, ordering food, and tracking deliveries in real time.
- Secure & Scalable Backend: Node.js & Express.js handle authentication (JWT), order management, and restaurant interactions efficiently.
- Real-Time Order Tracking: Implement WebSockets for instant order status updates and Razorpay/Stripe for secure online payments.
- Restaurant & Admin Management: Restaurants can manage menus and orders, while admins oversee platform operations, ensuring smooth functionality.

Technology used

- Frontend: React.js – For building a dynamic and responsive user interface.
- Backend: Node.js & Express.js – For handling API requests, authentication, and business logic.
- Database: MongoDB – A NoSQL database for storing user, restaurant, and order data efficiently.
- Authentication: JWT (JSON Web Token) – For secure user login and authorization.
- Real-Time Updates: WebSockets – For live order tracking and status updates.
- Payment Gateway: Stripe/Razorpay – For secure online transactions.
- State Management: Redux – For efficient data handling and user experience optimization.
- Hosting & Deployment: Vercel/Netlify (Frontend) and Heroku/AWS (Backend) for cloud deployment.

Modelling & Result



Vendor Dashboard **Firname :** Login / Register

Add Firm

Add Product

All Products

User Details

Vendor Login

Email

enter your email

Password

enter your password

Show

Submit

Modelling & Result

QUICK

Search...

Login / SignUp

Restaurants with online food delivery in Hyderabad

All

South-Indian

North-Indian

Chinese

Bakery

GO foods

GO foods

north-indian

Hlnjawdi

Nellore chepala pulusu

Nellore chepala pulusu

south-indian

Nellore

VAMSHI

VAMSHI

south-indian

WARANGAL

rice mill

rice mill

south-indian

la

Landuva Hotel

Landuva Hotel

north-indian, south-indian,

chinese, bakery

Dhungpur

Vangari Ushasree

Vangari Ushasree

north-indian, south-indian

Warangal

Edunet Foundation

Edunet Foundation

south-indian, north-indian

Hyderabad

FoodBay

FoodBay

south-indian, north-indian

Endada

Pista House

Pista House

bakery

Ameerpet

SALAAR

SALAAR

south-indian, north-indian,

chinese, bakery

KANSAR

BRIYANI

BRIYANI

south-indian

WARANGAL

sweet and sour

sweet and sour


south-indian, north-indian,

chinese, bakery


Modelling & Result

QUICK


Login / SignUp




Bonda



Dosa




Idli




Juice




Pancake



Paratha



Poha



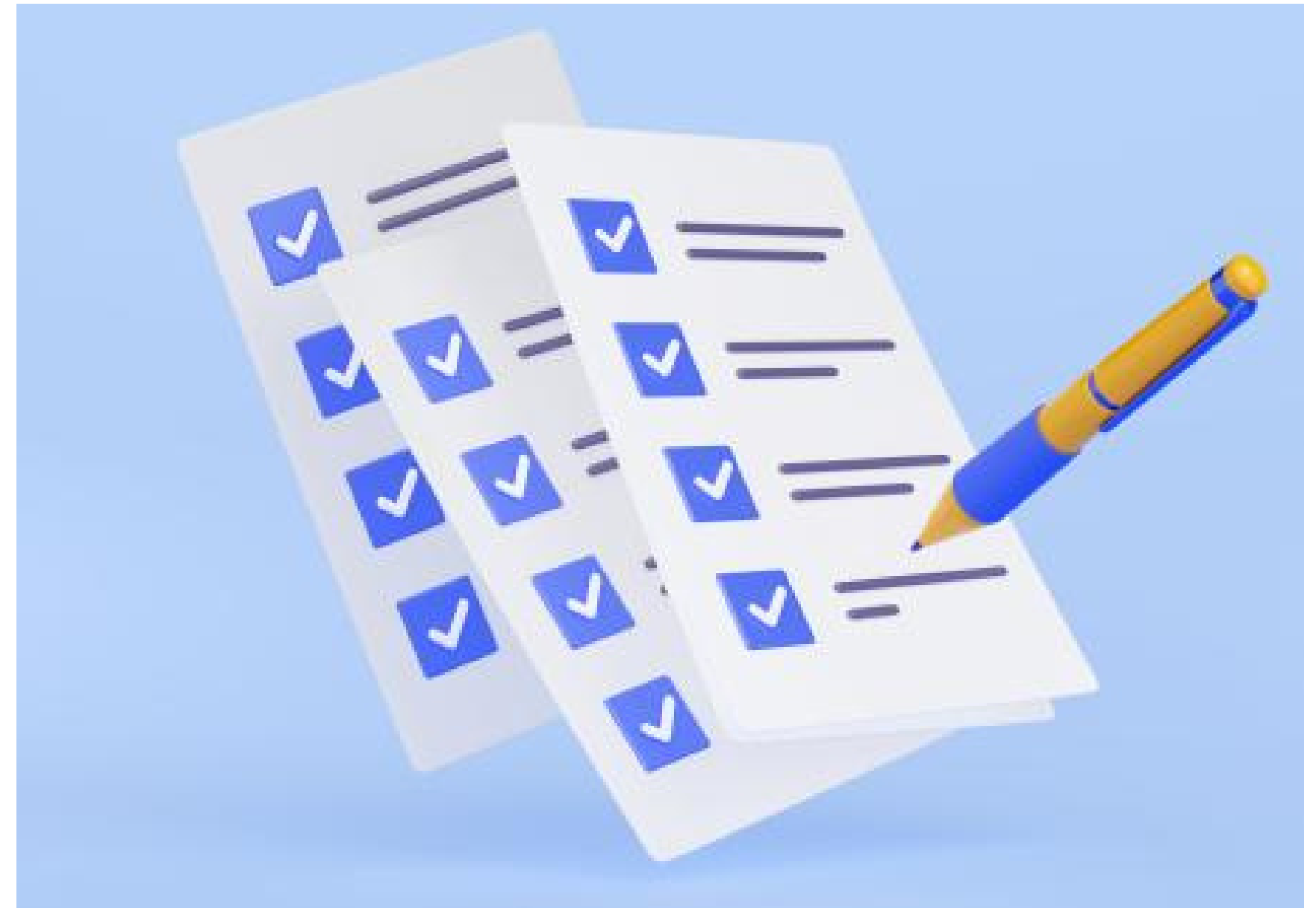
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Conclusion

- The Zomato Clone using MERN stack provides a scalable, efficient, and user-friendly food delivery platform that enhances the online ordering experience. With React.js for UI, Node.js & Express.js for backend, and MongoDB for data management, the system ensures secure transactions, real-time order tracking, and seamless restaurant management. This solution benefits both users and restaurant owners by offering a smooth ordering process, secure payments, and operational efficiency. In the future, features like AI-based recommendations and delivery partner tracking can be added to further improve the platform.





Thank you!

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