



# HI-FI DELIVERY EATS

*Your ultimate Food Destination for all your cravings*





# Hifi Delivery Eats



Welcome to the world of Hifi Delivery Eats, a platform designed to bring the experience of fine dining directly to your home.

## Team Members

### Product Owner:

Balajisrinath R

### Scrum Masters:

Dhruthi M Sathish  
Panchadip Bhattacharya  
Sanjay B  
Indrajeet Pimpalgaonkar  
Varshitha

### Members:

B Bhargavi  
Chitirala Sai Madhu Keerthi  
Dasari Lally  
Gokul N  
Harsh  
Kanduri Mahesh Babu  
Kunal Salunkhe  
Likhitha  
Mahalakshmi R  
Md Irfan Ansari  
Randeep Swain  
Sameer  
SCS Balaji  
Seran G  
Tejasri Ganji

# Technology Stack: Building a Robust Platform

## Frontend

HTML, CSS, JavaScript



## Backend

Python Flask



## Database

MySQLite 3



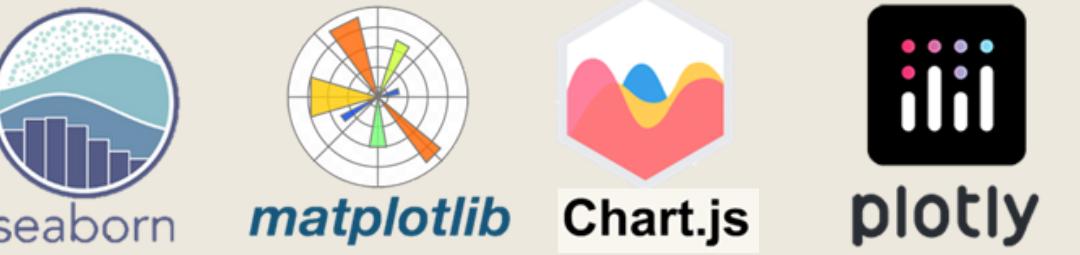
## Testing

PyTest, Postman



## Visualization

Seaborn, Matplotlib, Chart.js, Plotly





# Key Benefits of Hifi Delivery Eats



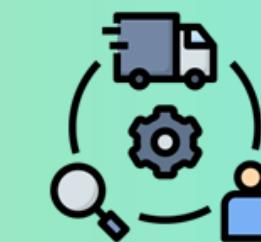
**Customer-Centric  
Convenience**



**Data-Driven  
Insights**



**Enhanced  
Security**



**Optimized Delivery  
Operations**



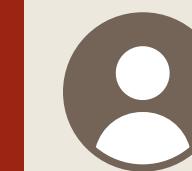
**Operational  
Excellence for  
Restaurants**



**Automated  
Notifications &  
Reports**



# Efficient Platform for All Stakeholders



## Restaurant Admin

Streamlined order management, increased reach, and access to new customers.



## Customers

Convenient ordering, personalized recommendations, and trackable deliveries.



## Delivery Agents

Optimized routes, efficient earnings, and user-friendly interface.



# Project Overview:

## Seamless Food Ordering & Delivery

A platform connecting customers, restaurants, and delivery agents.

## Real-Time Tracking & Order Management

Live order tracking for customers and efficient delivery management.

## Role-Based Access Control

Tailored access for customers, admins and delivery agents.

## Business Insights & Performance Metrics

Analytics to optimize service and sales.

## Automated Notifications & Reports

Timely SMS/Email updates and reports for restaurants

# The Core Modules



User Authentication  
&  
Role Management



Menu  
Management



Order  
Management



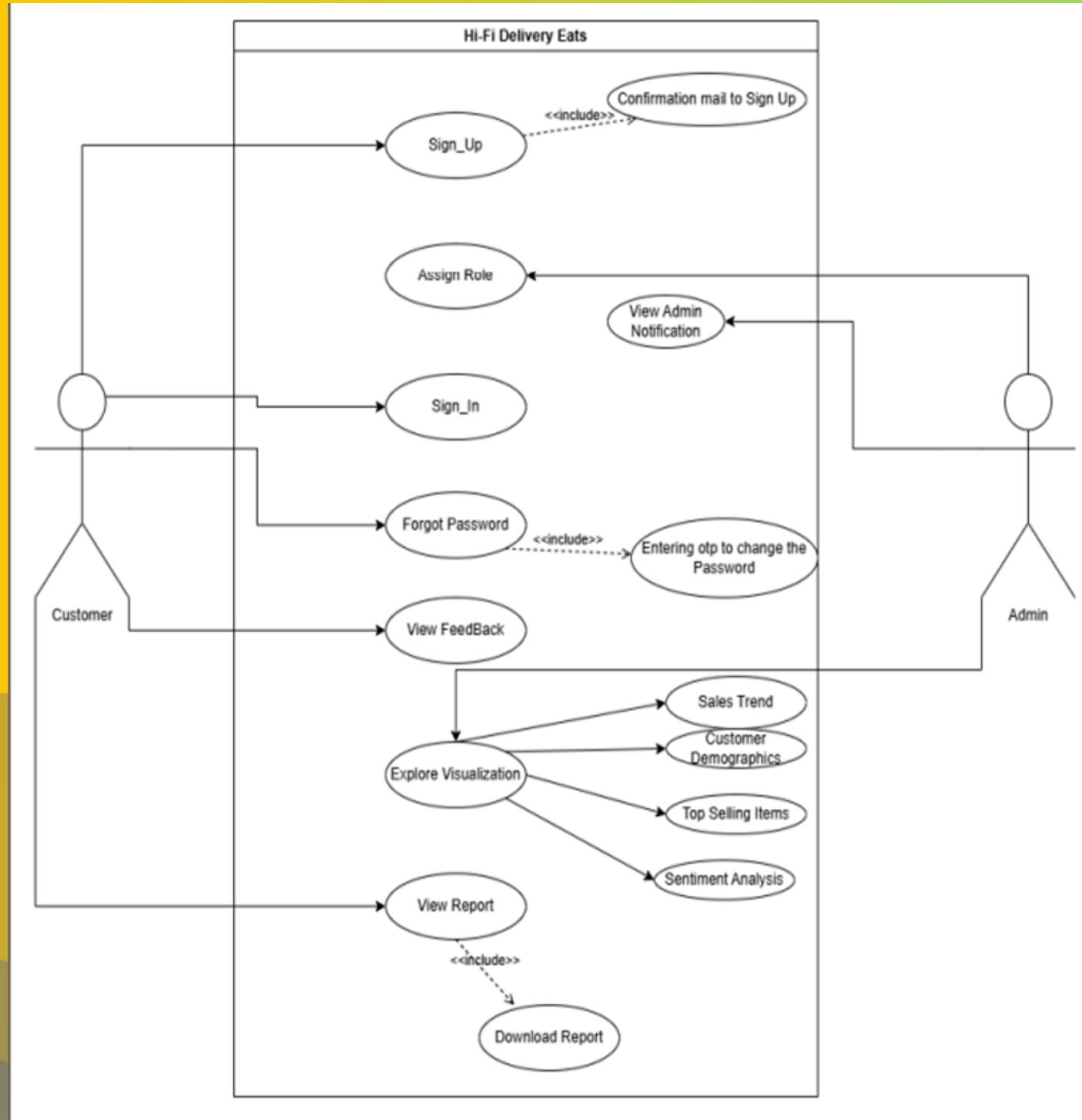
Delivery Agent  
Dashboard



Order Assignment  
&  
Visualization

# Use Case Diagram

**TEAM 1**



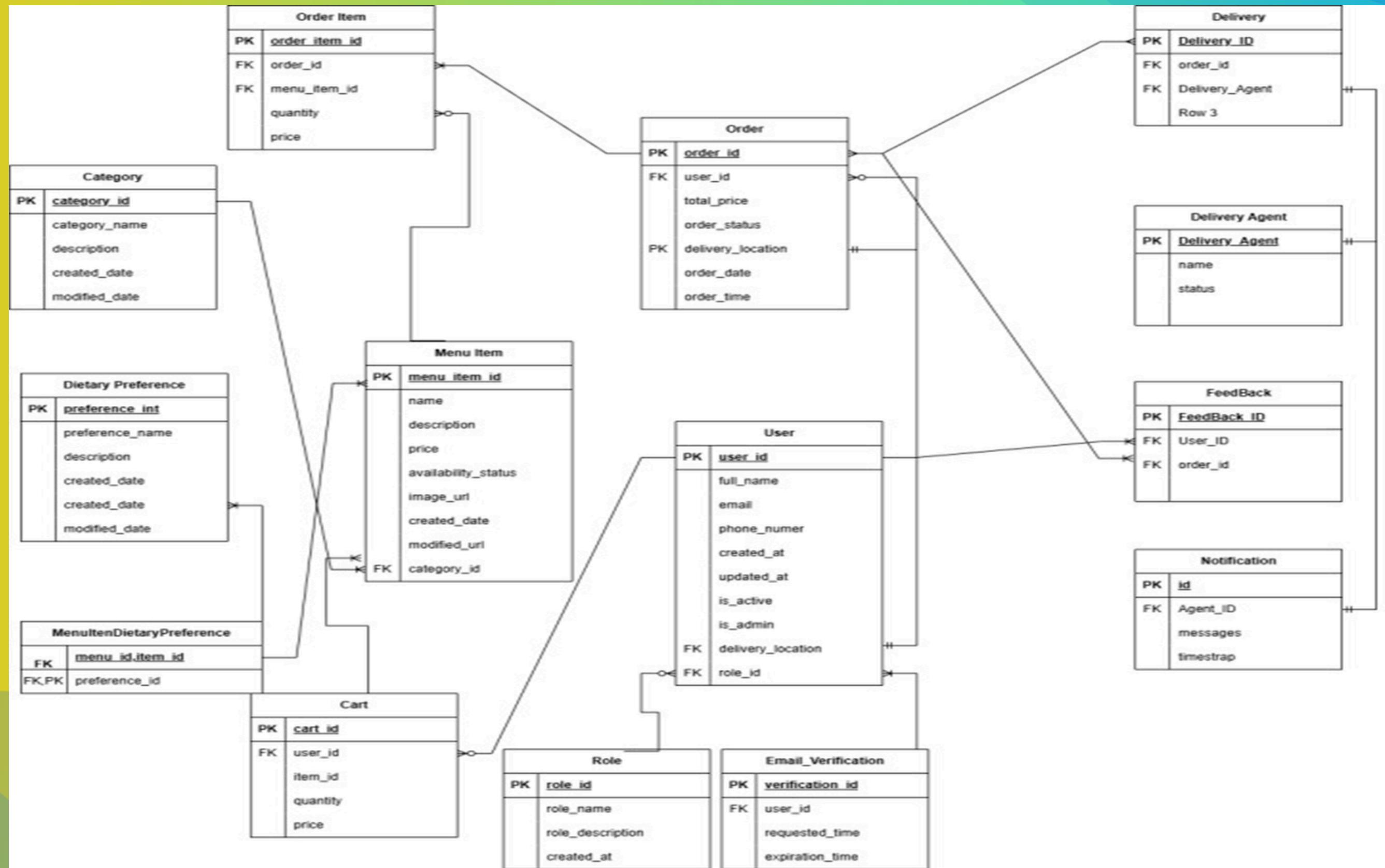
**TEAM 2**



**TEAM 3**



# ER Diagram





Welcome to Hifi Delivery Eats

## Sign In

E-mail

abc@gmail.com

Password



Next

Don't have an account? [Sign Up](#)

[Forgot Password?](#)

or continue with



# User Authentication & Role Management



## Secure Login

Robust authentication system to protect user accounts and data



## Role-Based Access

Different user roles with tailored permissions for restaurants, customers, and delivery agents.



## Data Security

Data encryption and secure storage measures to safeguard user information.



## Session Management

Automatic session timeout and logout mechanisms to prevent unauthorized access



Admin Panel

Add or Edit Menu Item

Item Name:  Description:

Price:  Category:

Image URL:

Available

**Save Menu Item** **Clear Form**

**Menu Items**

Image	Name	Description	Category	Price
	Pizza Margherita	Classic pizza with tomato, mozzarella, and basil	Main Course	\$20.00
	Caesar Salad	Romaine lettuce with Caesar dressing and croutons	Appetizers	\$10.00
	Chocolate Cake	Warm chocolate cake with gooey center	Desserts	\$8.00
	Mojito	Freshly brewed and chilled black tea	Beverages	\$5.00

**Edit** **Delete** **Edit** **Delete** **Edit** **Delete**

# Menu Management



## Dynamic Menu Updates

Instant menu changes for accurate offerings.



## User-Friendly Navigation

Simple filters for a better browsing experience



## Integration with Inventory

Accurate availability to optimize orders



## Export and Printing Features

Export data and print structured menu PDFs

# Order Management

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# Order Management

Order History

Search for Order Id

Order #	Date & Time	Item 1	Item 2	Total Price	Status
#16522	2025-02-03   18:11	Pizza Margherita Classic pizza with tomato, mozzarella, and basil Qty: 1 Rs. 200	Caesar Salad Romaine lettuce with Caesar dressing and croutons Qty: 1 Rs. 100	Rs. 542.6	Pending
#16517	2025-01-31   16:51	Chocolate Cake Warm chocolate cake with a gooey center Qty: 2 Rs. 80	Caesar Salad Romaine lettuce with Caesar dressing and croutons Qty: 1 Rs. 100	Rs. 386	Order Confirmed
#16505	2025-01-31   19:19	Chocolate Cake Warm chocolate cake with a gooey center Qty: 2 Rs. 80		Rs. 160	Completed
#16487	2025-01-31   18:02	Chocolate Cake Warm chocolate cake with a gooey center Qty: 2 Rs. 80	Pizza Margherita Classic pizza with tomato, mozzarella, and basil Qty: 1 Rs. 200	Rs. 1160	Completed
#16480	2025-01-31   20:18	Mojito Freshly brewed and chilled black tea Qty: 3 Rs. 50	Caesar Salad Romaine lettuce with Caesar dressing and croutons Qty: 2 Rs. 100	Rs. 450	Completed



# Order Assignment & Visualization

## Efficient Order Assignment



User & Agent Details Management

Order Reassignment

Delivery Agent Management

Order Status			
Search here by Order ID			
Customers Details	Order ID	Amount	Status
Admin User User ID: 1 undefined	#16521	Rs 430.6	Cancelled
Admin User User ID: 1 undefined	#16520	Rs 486.6	Completed
David bhai User ID: 3 undefined	#16519	Rs 331	Out for Delivery
David bhai User ID: 3 undefined	#16518	Rs 386	Cancelled
John Doe User ID: 2 undefined	#16517	Rs 386	Order Confirmed

Apply Filters

- Order Delivered
- Order Pending
- Order Preparing
- Order In Progress
- Order Cancelled
- Sort by price

Agent Details				
Search here				
Agent Name	Agent ID	Email ID	Ph. No	Status
david@email.com	#3	david@email.com	1234567890	in delivery
balaji@email.com	#4	balaji@email.com	1235567890	on delivery
sreehari@email.com	#5	sreehari@email.com	1234568890	in delivery
naveedh@email.com	#6	naveedh@email.com	1234567870	On Delivery

Apply Filters

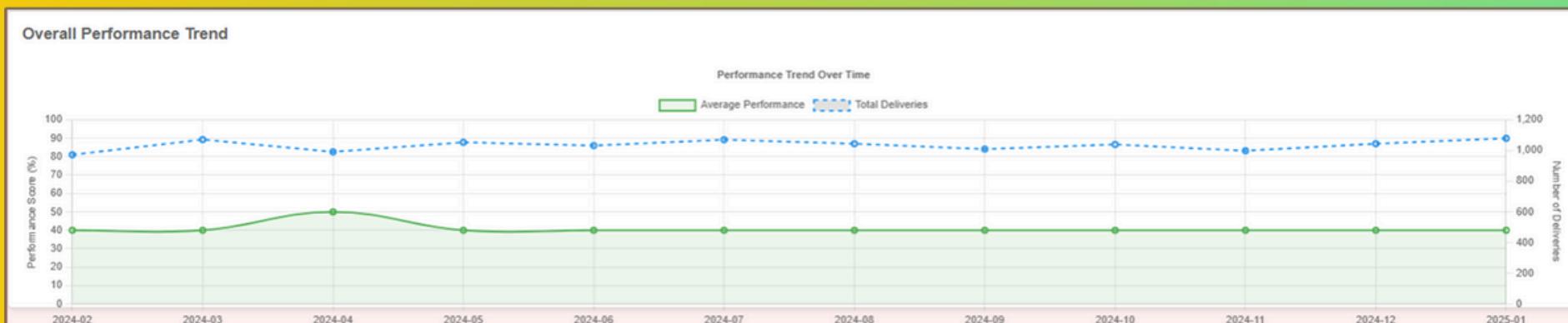
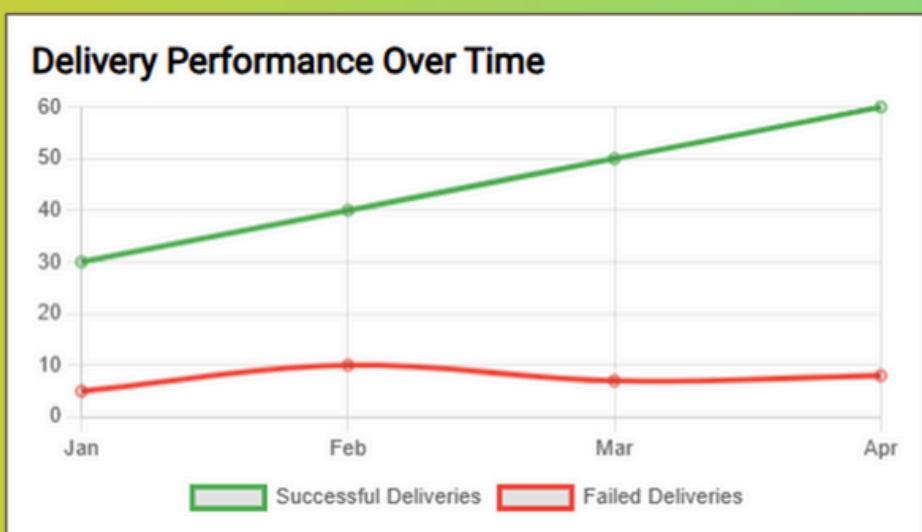
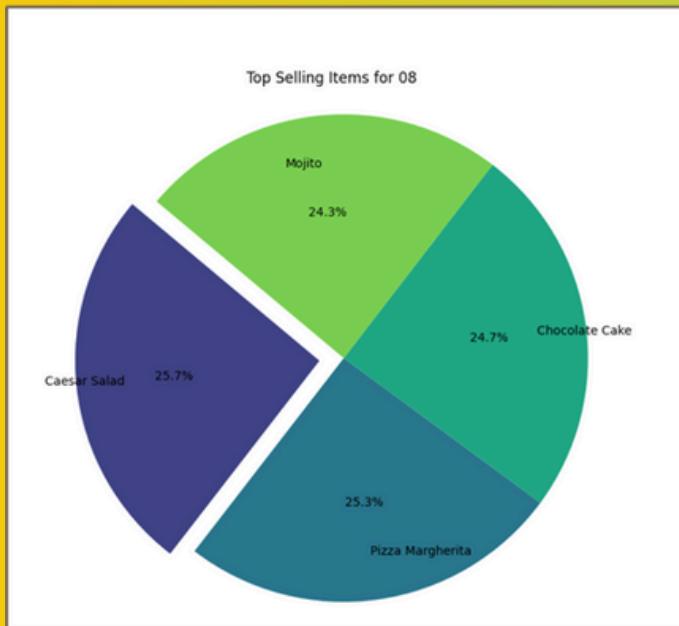
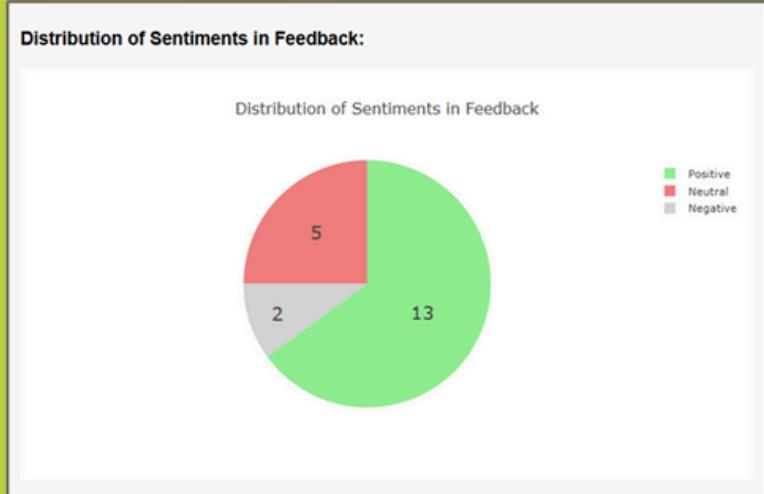
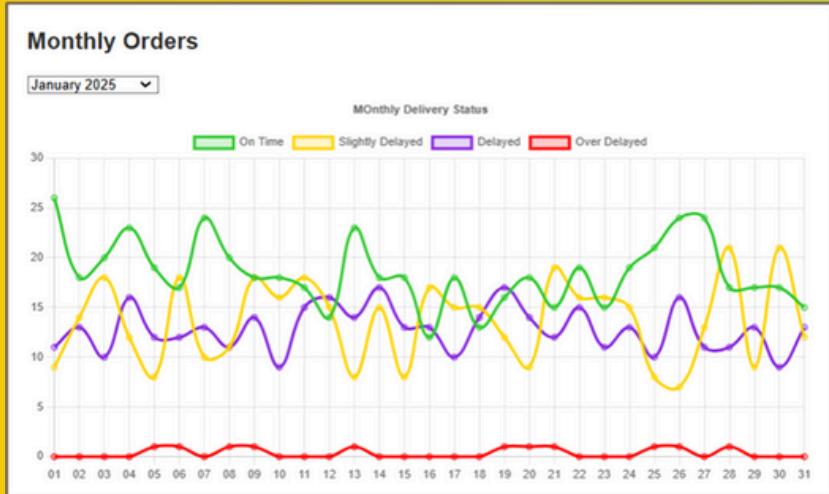
- Agent ID
- Agent Name
- Status

Add an Agent +

Remove an Agent -



# Order Assignment & Visualization



## Agent Performance Metrics

## Customer Insights

## Top-Selling Items

## Order Tracking

## Real-Time Visualization & Insights

## Order Frequency Analysis

# Delivery Agents Dashboard



# 1

## Streamlined Order Management

The dashboard provides a centralized view of assigned orders, allowing agents to efficiently manage their daily tasks and prioritize deliveries based on critical information and timelines.

# 2

## Enhanced Communication

### Features

Integrated communication tools enable agents to interact seamlessly with customers and support teams, ensuring clarity and prompt resolution of any delivery-related issues that may arise.

# 3

## Comprehensive Performance Tracking

The dashboard's performance metrics section allows agents to monitor their delivery statistics, fostering accountability and encouraging continuous improvement through data-driven insights and feedback.

## Order Management

### Current Orders

Order ID	Customer ID	Total Price	Status	Delivery Location	Order Date	Order Time	Actions
1	1	\$160	Completed	456 Oak Ave, City	2024-02-01	2024-02-01 14:32:25.515181	New <input type="button" value="Update"/>
2	4	\$560	Completed	123 Main St, City	2024-02-01	2024-02-01 12:11:25.515181	New <input type="button" value="Update"/>
3	2	\$690	Completed	456 Oak Ave, City	2024-02-01	2024-02-01 18:50:25.515181	New <input type="button" value="Update"/>
4	3	\$300	Completed	123 Main St, City	2024-02-01	2024-02-01 18:27:25.515181	New <input type="button" value="Update"/>
5	5	\$1000	Completed	456 Oak Ave, City	2024-02-01	2024-02-01 23:02:25.515181	New <input type="button" value="Update"/>
6	2	\$550	Completed	123 Main St, City	2024-02-01	2024-02-01 17:19:25.515181	New <input type="button" value="Update"/>
7	5	\$1240	Completed	789 Pine Rd, City	2024-02-01	2024-02-01 11:56:25.515181	New <input type="button" value="Update"/>
8	2	\$1200	Completed	456 Oak Ave, City	2024-02-01	2024-02-01 14:47:25.515181	New <input type="button" value="Update"/>
9	2	\$230	Completed	123 Main St, City	2024-02-01	2024-02-01 17:32:25.515181	New <input type="button" value="Update"/>
10	2	\$160	Completed	789 Pine Rd, City	2024-02-01	2024-02-01 13:48:25.515181	New <input type="button" value="Update"/>
11	6	\$670	Completed	789 Pine Rd, City	2024-02-01	2024-02-01 10:40:25.515181	New <input type="button" value="Update"/>
12	4	\$1800	Completed	789 Pine Rd, City	2024-02-01	2024-02-01 23:03:25.515181	New <input type="button" value="Update"/>
13	1	\$420	Completed	789 Pine Rd, City	2024-02-01	2024-02-01 15:39:25.515181	New <input type="button" value="Update"/>
14	4	\$290	Completed	456 Oak Ave, City	2024-02-01	2024-02-01 15:49:25.515181	New <input type="button" value="Update"/>
15	4	\$400	Completed	456 Oak Ave, City	2024-02-01	2024-02-01 10:24:25.515181	New <input type="button" value="Update"/>
16	1	\$990	Completed	123 Main St, City	2024-02-01	2024-02-01 10:02:25.515181	New <input type="button" value="Update"/>



# Testing

## Types of Testing Performed:

Manual Testing  
Unit Testing

Integration Testing  
System Testing



User Stories: 77  
Test cases: 88

Cart & Checkout Validation

User Registration &  
Authentication Functionality

Role-Based Management  
Functionality

Order Tracking &  
Automation

**Major test case functionalities:**

Notifications &  
Alerts

## Visualization

We resolved a visualization error caused by data format inconsistencies by standardizing and validating menu export processes.

### Integration Difficulties

Ensuring seamless communication between different system components and third-party APIs.

### Problem-Solving & Adaptability

Overcame integration challenges through troubleshooting and flexible solutions.

## Challenges & Learnings

### Real-Time Tracking Complexity

Implementing accurate, live order tracking with minimal latency.

### Agile Methodologies

Adopted an iterative approach for efficient development and continuous improvement.

### Data-Driven Insights

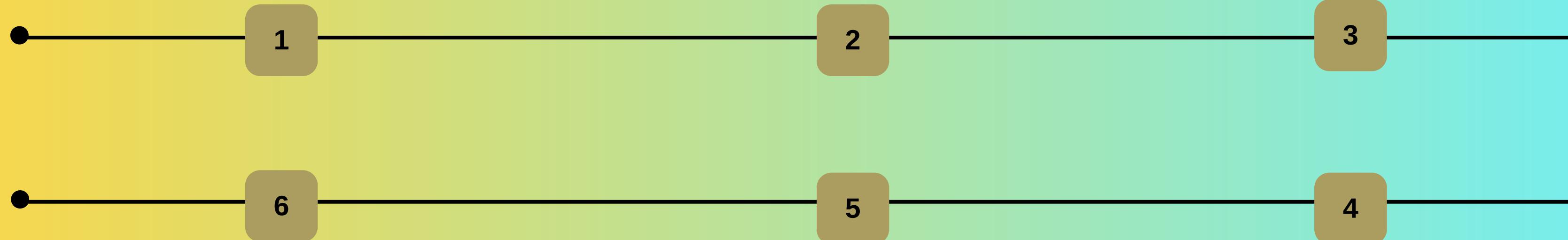
Analytics help optimize restaurant and delivery performance.



# Project Highlights

## Real-Time Tracking

Monitor the progress of your order from the restaurant to the doorstep.



## Revenue Trends

Analyzing profit and loss trends using Matplotlib with dual graph representation for better financial insights.

## Session Timeout

Automatically redirects users to the sign-in page after 5 to 10 minutes of inactivity for enhanced security.

## Anomaly Detection

Identifies unusual patterns and outliers using the K-Means algorithm and Cluster.

## Sentiment Analysis

Determines sentiment using predefined linguistic and contextual rules.

## Route Finder

Calculates the optimal path between locations using graph algorithms.

# **THANK YOU**