



PES UNIVERSITY, BANGALORE
Department of Computer Science and Engineering

**B.TECH. (CSE)
V SEMESTER
UE20CS303 –SOFTWARE
ENGINEERING

PROJECT REPORT
ON
FOOD DELIVERY SYSTEM

SUBMITTED BY**

Nisarga Bhaskar	PES1UG20CS268
P Gnan Chandhan	PES1UG20CS273
Prajwal V	PES1UG20CS289
Pranav Sirnapalli	PES1UG20CS296



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Proposal of the Project

We propose a project with the goal to create a highly effective online food delivery system. A system with the good optimization and easy user interface with online food ordering system via a web based application.

The advantage of the system is that it greatly simplifies the ordering process for both the customer and the restaurant. When the customer visits the ordering webpage, they are presented with an interactive and up-to-date menu, complete with all available options and dynamically adjusting prices based on the selected options.

This system also greatly lightens the load on the restaurant's end, as the entire process of taking orders is automated. Once an order is placed on the webpage, it is entered into the database and then retrieved, in real time, by a desktop application on the restaurant's end. Within this application, all items in the order are displayed, along with their corresponding options and delivery details, in a concise and easy to read manner.



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Software Requirement Specification

The purpose of this SRS is to outline the functional and non-functional requirements of the product theme of online food delivery systems.

External Interface Requirements:

- **User Interfaces:** In this interface users interact with the system by clicking on various items and selecting various menu-items and the respective quantity and portion sizes.
- **Software Interfaces:** The interface with a Database Management System (DBMS) that stores the information necessary for the food delivery system to operate. The DBMS must be able to provide, on request and with low latency, data concerning the restaurant's menu, and the details about the orders being placed.
- **Communication Interface:** All devices on the Local Area Network (LAN) are in constant communication thanks to the interface. It should use a reliable-type IP protocol such as TCP/IP or reliable-UDP/IP for maximum compatibility and stability.

System Features

- **Place Order :** The user can select the restaurant to order from by searching for it or by clicking on the dropdown box and then select the required food from that restaurant.
- **Transactions :** This module is written as card management and is used to handle all the transactions made to buy the food.
- **Collect User Details :** It is used to get the users details i.e. his/her phone no and address and name



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- Order Report : A description of all the items that the customer has ordered, item no: can be increased and items can be removed in this section.
- Delivery Report : Displays the details about the user and the payment method and the status of the order
- Track the Order : It can be used to check the status of the order

Non-functional Requirements

Performance Requirements:

- The server shall be capable of supporting an arbitrary number of active meals/orders, that is, no meals/orders shall be lost under any circumstances.
- The server shall be capable of supporting an arbitrary number of surface computers, tablets and displays, that is, it shall provide no limit on how many devices are in the system.
- The server shall be capable of supporting an arbitrary number of surface computers, tablets and displays, that is, it shall provide no limit on how many devices are in the system.

Safety Requirements :

- The system should log every state and state change of every surface computer, tablet and display to provision recovery from system failure.
- The system should be made capable of restoring itself to its previous state in case of a failure

Business Rules:

- All meals in a single order must be delivered to the same location.
- All meals in single order must be paid using the same payment method.



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PROJECT PLAN

The work was equally distributed using the WBS and multiple sprints were conducted with frequent scrum meeting tracking and making sure the Gantt chart was followed to maintain the schedule.

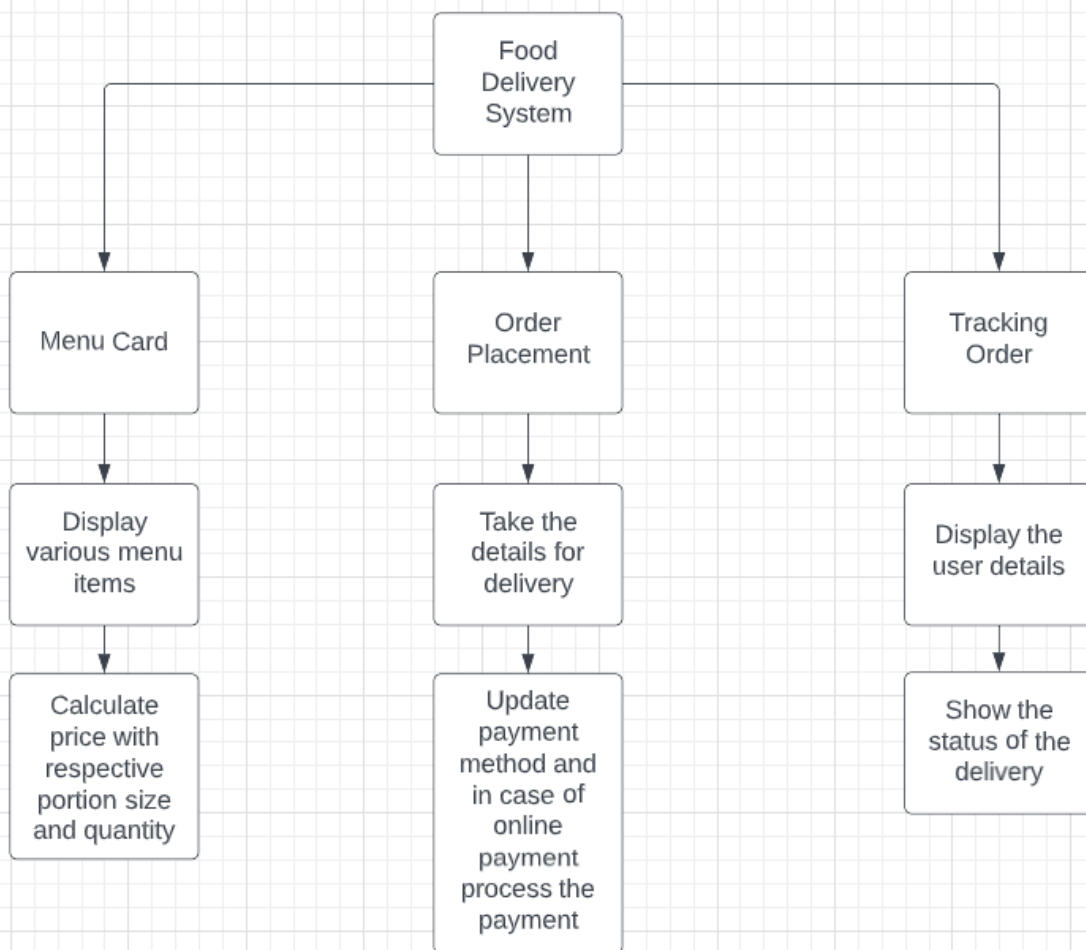


Figure 1: Work Breakdown Structure



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Food Delivery System Gantt Chart

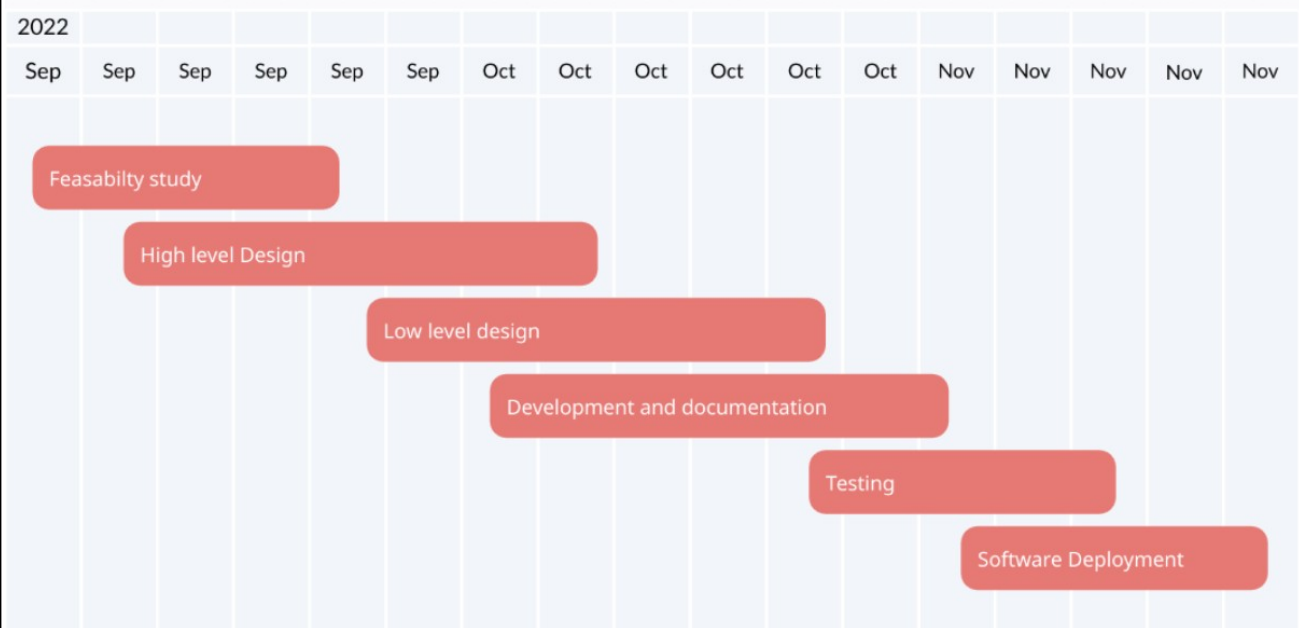


Figure 2: Gantt Chart for Scheduling

We have used tools like

- JIRA : tracking project development and Agile project management
- Selenium : Unit testing of the web application

DESIGN DIAGRAM

Data Flow Diagram - Online Food Delivery System

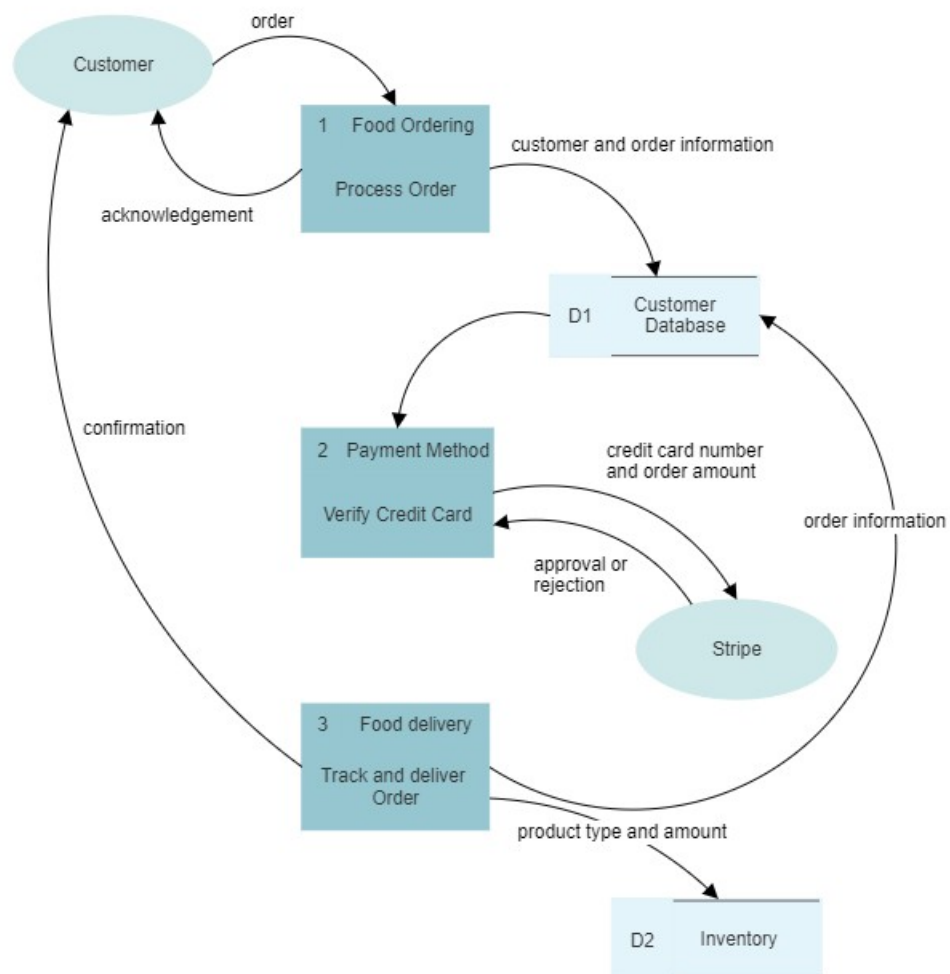


Figure 3: Data Flow Diagram



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TEST CASES

1. Home page integration : Integration of all the components of the home page and make sure they are linked properly
2. Individual food-item rendering : Dynamically rendered information about each individual food item offered by the restaurants
3. Menu card integration : Displaying all the dishes together in one route /menu
4. Cart Items display : Items selected by user can be viewed
5. Cart summary Calculation : Calculation of the total price
6. Payment via COD : Payment module through COD
7. Online Payment : Payment module through online mode
8. Details of order storing : Collect the details of the user
9. Order Status : Shows the status of the order



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SCREENSHOTS OF THE OUTPUT

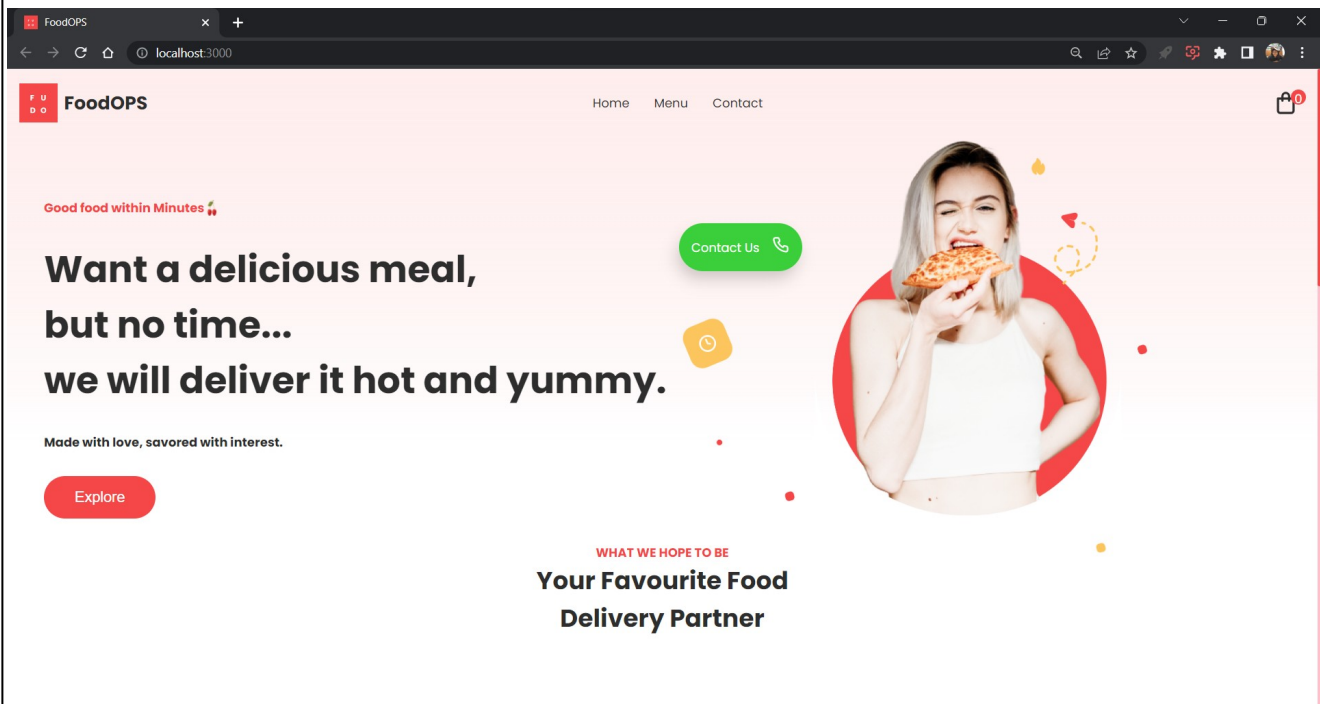


Figure 4: Home Page



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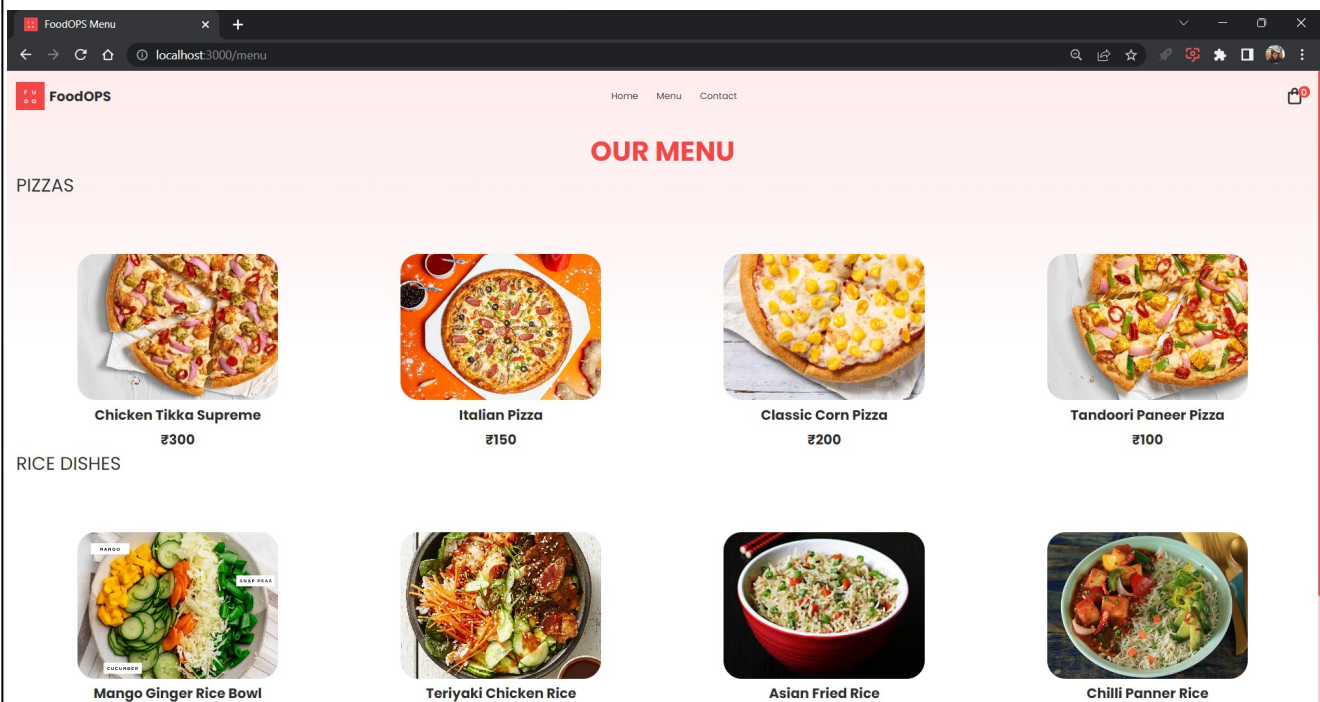


Figure 5: Menu Page



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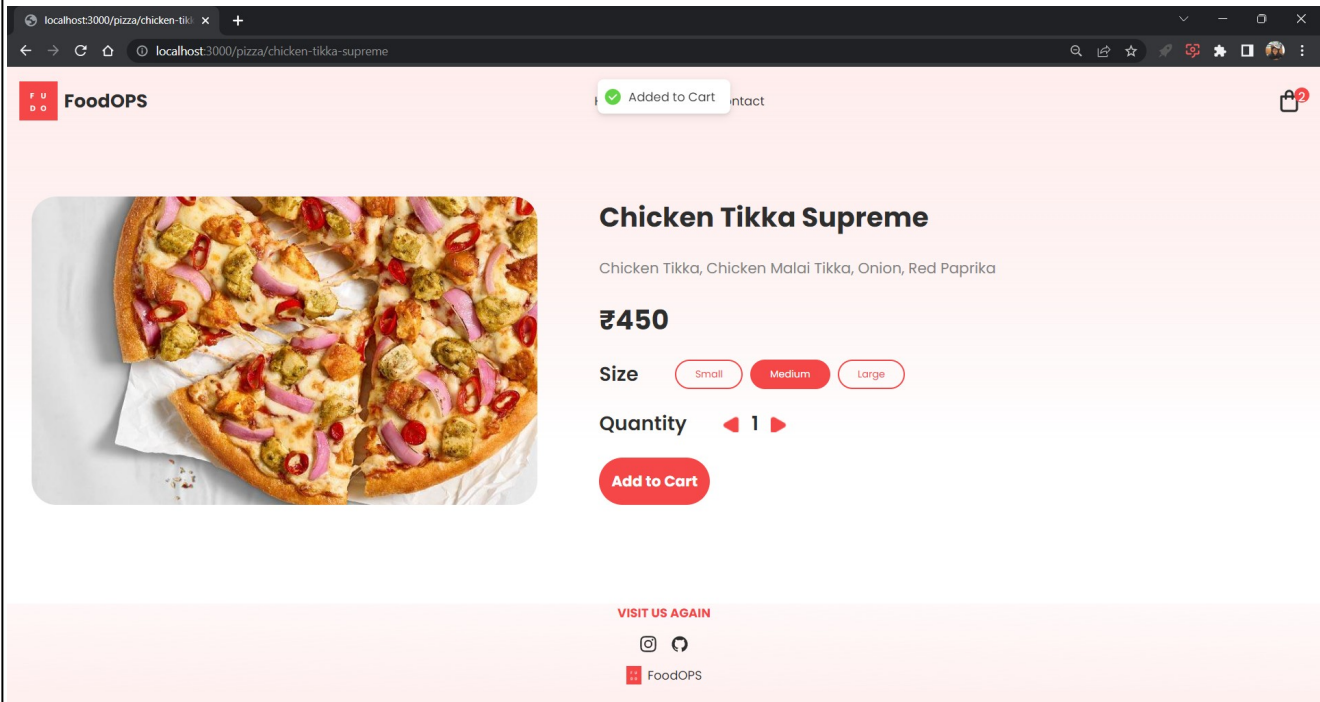


Figure 6: Individual Menu Card Page

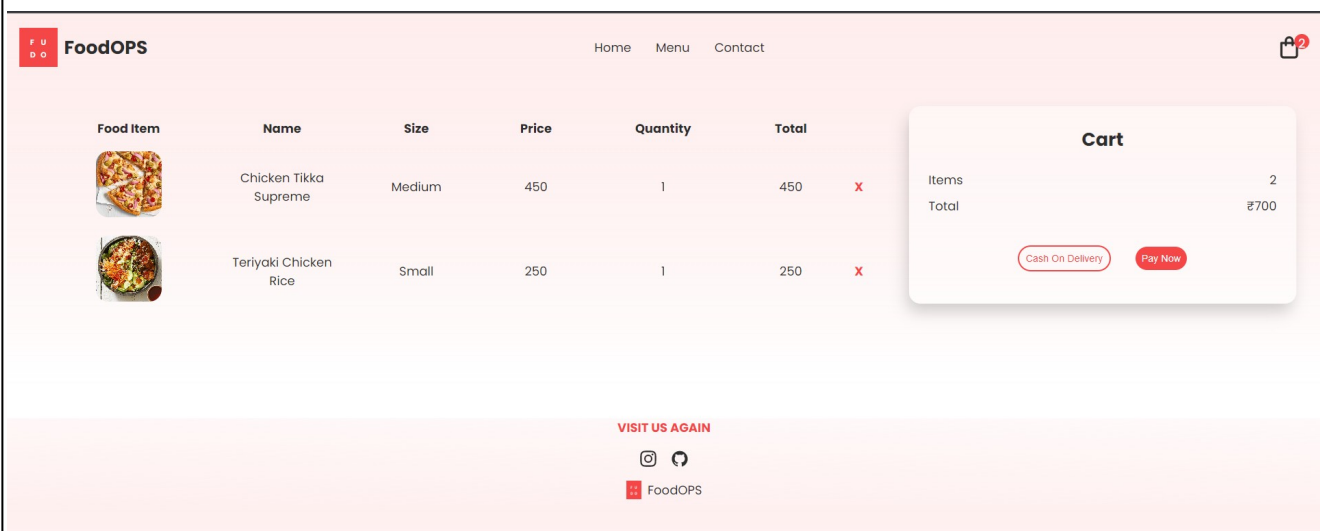


Figure 7: Order Cart Page



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A screenshot of a web browser showing the Stripe checkout page for FoodOPS. The browser's address bar displays a long URL starting with "checkout.stripe.com". The page is titled "Pay FoodOPS" and shows a total amount of ₹700.00. The items being purchased are "Chicken Tikka Supreme" (₹450.00) and "Teriyaki Chicken Rice" (₹250.00). On the right side, there is a "Pay with card" section with input fields for Email (test1@gmail.com), Card information (4242 4242 4242 4242), Name on card (nisarga), and Country or region (India). A blue "Pay" button is at the bottom right. The page is marked as "TEST MODE" and "Powered by stripe".

FoodOPS TEST MODE

Pay FoodOPS

₹700.00

	Chicken Tikka Supreme	₹450.00
Qty 1		
	Teriyaki Chicken Rice	₹250.00
Qty 1		

Powered by stripe | Terms Privacy

Pay with card

Email

test1@gmail.com

Card information

4242 4242 4242 4242 VISA

10 / 25 123

Name on card

nisarga

Country or region

India

Pay

Figure 8: Stripe Payment Portal



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A screenshot of a web form titled "Details Collection Form". The form is white with a light gray border and a close button (X) in the top right corner. It contains three input fields: the first contains "nisarga", the second contains "1234567890", and the third contains "bangalore" with a red dashed underline. Below the fields, the text "Amount to be paid on the delivery : ₹700" is displayed in black, with the amount in red. At the bottom is a green rounded button with the text "Place Order" in white.

Figure 9: Details Collection Form



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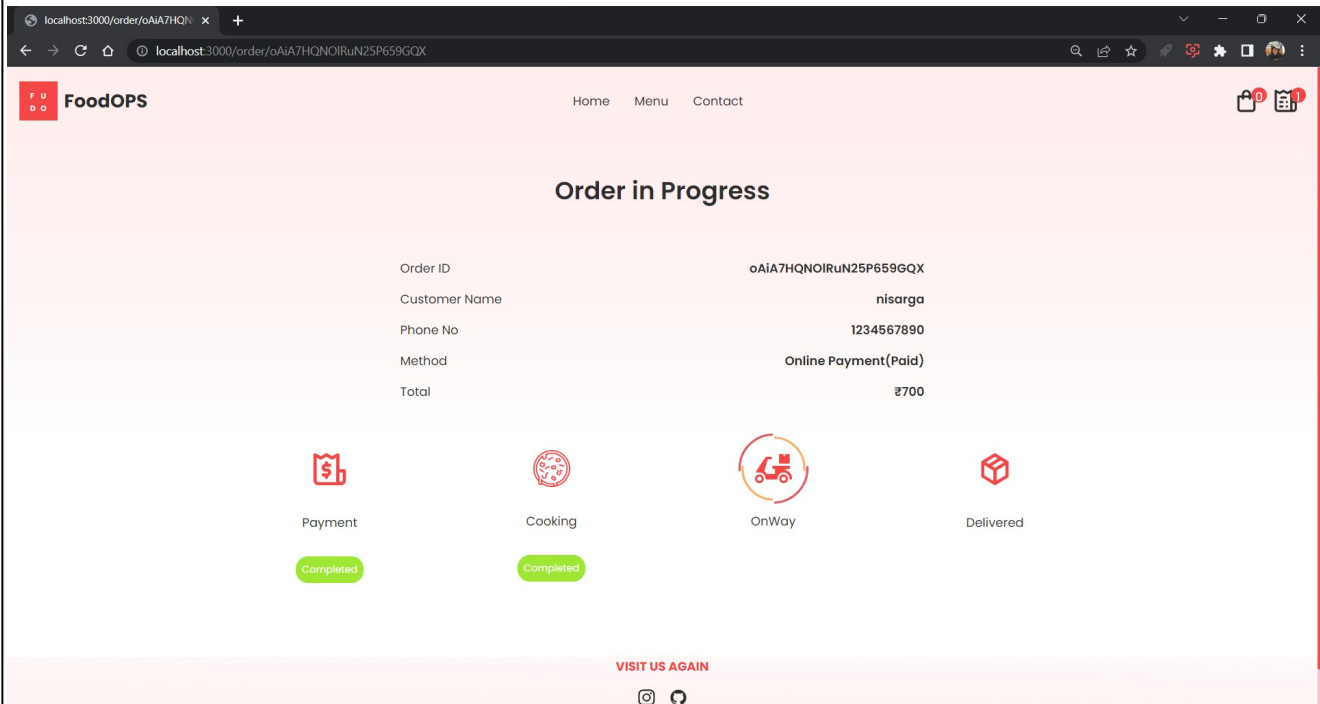


Figure 10: Order Tracking Page