Online food ordering system

Whatever you want, wherever you want

01

Abstract, Vision

We will discuss the abstract and vision behind our project

02

Requirements, Sprint planning

We will discuss the expectations, requirements of this particular system here.

03

Uml and Sprint diagrams

Views, flow of the system will be explained through these diagrams

04

Prototype, testing, further updates

We will explain how the website works and if there are any updates we will discuss them

Abstract

The online food order and delivery system has provided consumers with unprecedented convenience, allowing them to browse menus, choose from a variety of restaurants, and place orders from the comfort of their own homes. By aggregating supply from multiple restaurants onto a single platform, these aggregator businesses have simplified the process of browsing, choosing, and ordering food for consumers. They have also benefited the restaurant industry by providing them with a new channel for reaching customers and increasing their sales. Thus we prepared a system where you can order from your favorite restaurant from anywhere and you can get it delivered anywhere.

Product Vision

The objective of our food delivery system for restaurants is to optimize and elevate the dining experience for both customers and restaurant personnel. This application is designed to offer efficient order processing, seamless payment handling, and valuable data analytics. Our goal is to provide a convenient and delightful dining experience for customers, allowing them to savor restaurant-quality food
in the comfort of their homes, while ensuring that our restaurant partners can operate seamlessly and effectively in the delivery ecosystem.

Concept

Online food order delivery is a convenient service that enables customers to select and purchase meals from restaurants via the internet or mobile apps. This concept streamlines the entire process, allowing users to browse menus, place orders, and make payments online. Restaurants receive these orders digitally and prepare the requested food. Couriers then pick up the orders and deliver them to the customers' doorsteps, ensuring a seamless and efficient dining experience. This innovative model combines technology, logistics, and the culinary industry, offering a wide range of food choices and simplifying meal delivery, making it a popular choice for modern consumers.

Requirements

Developing an online food ordering and delivery system requires careful consideration of various types of requirements to ensure a seamless and efficient user experience. Here's a list of key requirements for such a system

1.Functional requirements
2.Non functional requirements.

Functional requirements

Functional requirements for a food ordering system can vary depending on the specific needs of the restaurant or food delivery service. It should include:

- **User Registration and Authentication:**

User registration for customers, restaurant staff, and administrators.Secure authentication methods (e.g., username and password, two-factor authentication).

- **Menu Management:**

Ability to add, edit, and remove menu items.Categorization of menu items (e.g., appetizers, main courses, desserts).Pricing and description for each menu item. Option to add images or descriptions for menu items.

- **Order Placement and Processing:**

User-friendly interface for customers to browse and select items.Customization of orders (e.g., special requests, modifications).Real-time order tracking for customers.Integration with payment gateways for secure transactions.

Functional requirements (continued)

- **Inventory Management:**

Administrators should be able to track ingredient and supply quantities. Reorder alerts should be generated when inventory levels reach a specified minimum threshold.Staff should be able to update inventory quantities as ingredients are used or restocked.

- **Payment Processing:**

Customers should be able to pay for their orders using various payment methods (credit/debit cards, cash, mobile wallets). Cashiers should have the ability to process payments, apply discounts, and split bills if necessary. Digital receipts should be generated and sent to customers via email.

- **Order Confirmation and Notifications:**

Confirmation messages to customers after order placement.Notification to restaurant staff with order details.SMS or email notifications for order status updates.

Functional requirements (Continued)

- **Delivery Tracking:**

Assigning delivery drivers to orders.Real-time tracking of delivery status.Estimated delivery times for customers.

- **User Reviews and Ratings:**

Option for customers to leave reviews and ratings.Display of reviews and ratings for menu items and restaurants.

- **User Profiles:**

User profiles for customers to manage their information and preferences.Restaurant staff profiles with permissions and roles.

- **Admin Panel:**

Dashboard for administrators to manage users, restaurants, and settings.Tools for content moderation and quality control.User activity logs and audit trails.

- **Support and Helpdesk:**

Contact and support options for customers.Ticketing system for handling customer inquiries and issues.

Non Functional Requirements

- User-friendly interface for easy navigation and use
- High performance and scalability to handle large amounts of data placement, payment processing, and other interactions.
- Respond quickly to user actions, with minimal delays during order
- Compatibility with various operating systems and devices
- Ability to handle multiple users and concurrent access to the system
- Compliance with relevant laws and regulations regarding food ordering system and data privacy
- Regular updates and maintenance to ensure the system remains functional and secure over time.

Timeline

Week 1

Uml diagrams

Week 2

Database connection

Week 3

Designing of website

Week 4

Frontend and backend connection

Sprint Planning

Sprint 1

Setting Up the Foundation:

1.Develop user authentication and login system.
2.Create a basic database schema for storing customer information and orders.

Sprint 2

Menu and Pricing

1.Design and implement a menu management system.
2.Allow administrators to add, edit, and delete menu items.
3.Associate prices and ingredients with each menu item.

Sprint 3

Order Management

1.Customers should be able to view the menu, select items, quantities and place orders.
2.Cashiers should be able to create, modify, and manage customer orders.

Sprint 4

Payment Processing

I1.ntegrate a payment gateway for processing customer payments.
2.Allow cashiers to apply discounts and manage payment options.
3.Implement receipt generation for customers.

Sprint Planning

Sprint 5

Inventory Management
1.Enhance the inventory management system with reorder alerts.
2.Allow administrators to update ingredient quantities and suppliers.

Sprint 6

Order Tracking Management
1.Customers Should be able to track their orders
2.Customers should be able to manage their order delivery

Sprint 7

Review and Rating interface
1.Customer should be able to get in contact with the management of ordering system through the interface.
2.There should be an interface for interacting and titled as ‘Contact us’

Sprint 8

Final Polish and Testing
1.Conduct thorough testing of all system features.
2.Fine-tune user interfaces and resolve any remaining bugs.
3.Prepare for a full release of the ‘Food ordering system”.

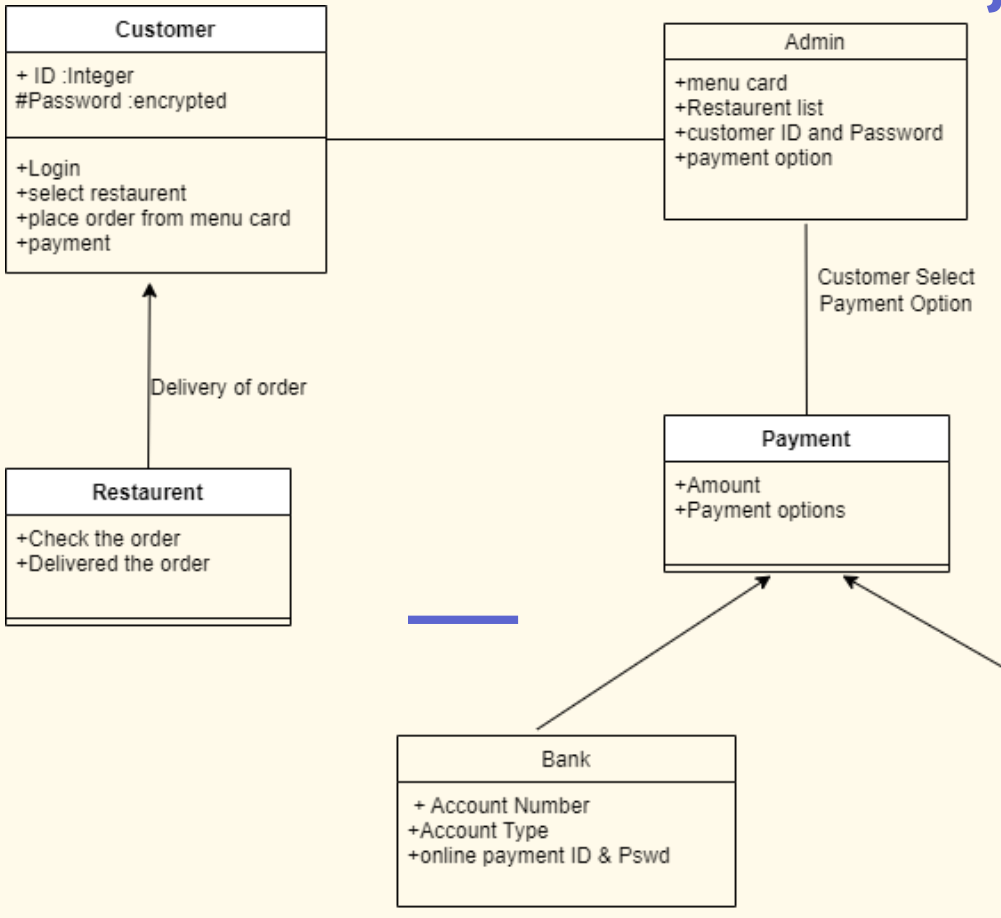
Working of sprints

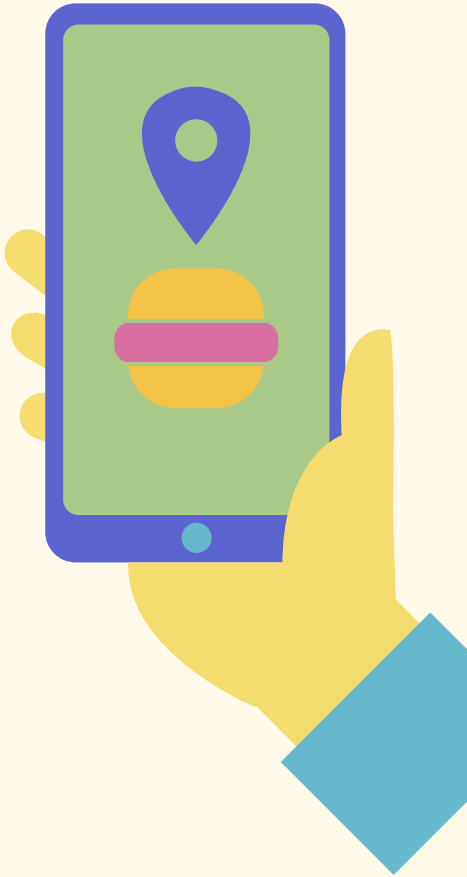
- At the end of each sprint, hold a sprint review meeting to demonstrate the completed features to stakeholders and gather feedback.
- Discuss what went well, what could be improved, and decide whether the completed features meet the acceptance criteria.
- Based on the feedback and insights from the sprint review and retrospective, adjust the product backlog, refine user stories, and reprioritize as necessary.
- Plan the next sprint based on the updated backlog and repeat the cycle.

UML Diagrams

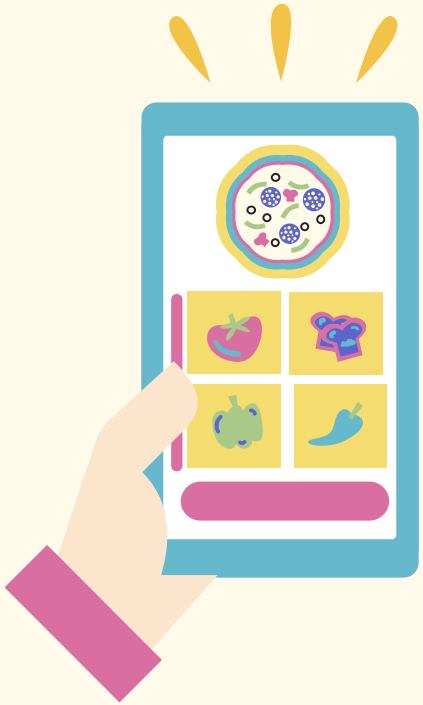
UML, short for Unified Modeling Language, is a standardized modeling language consisting of an integrated set of diagrams, developed to help system and software developers for specifying, visualizing, constructing, and documenting the artifacts of software systems, as well as for business modeling.

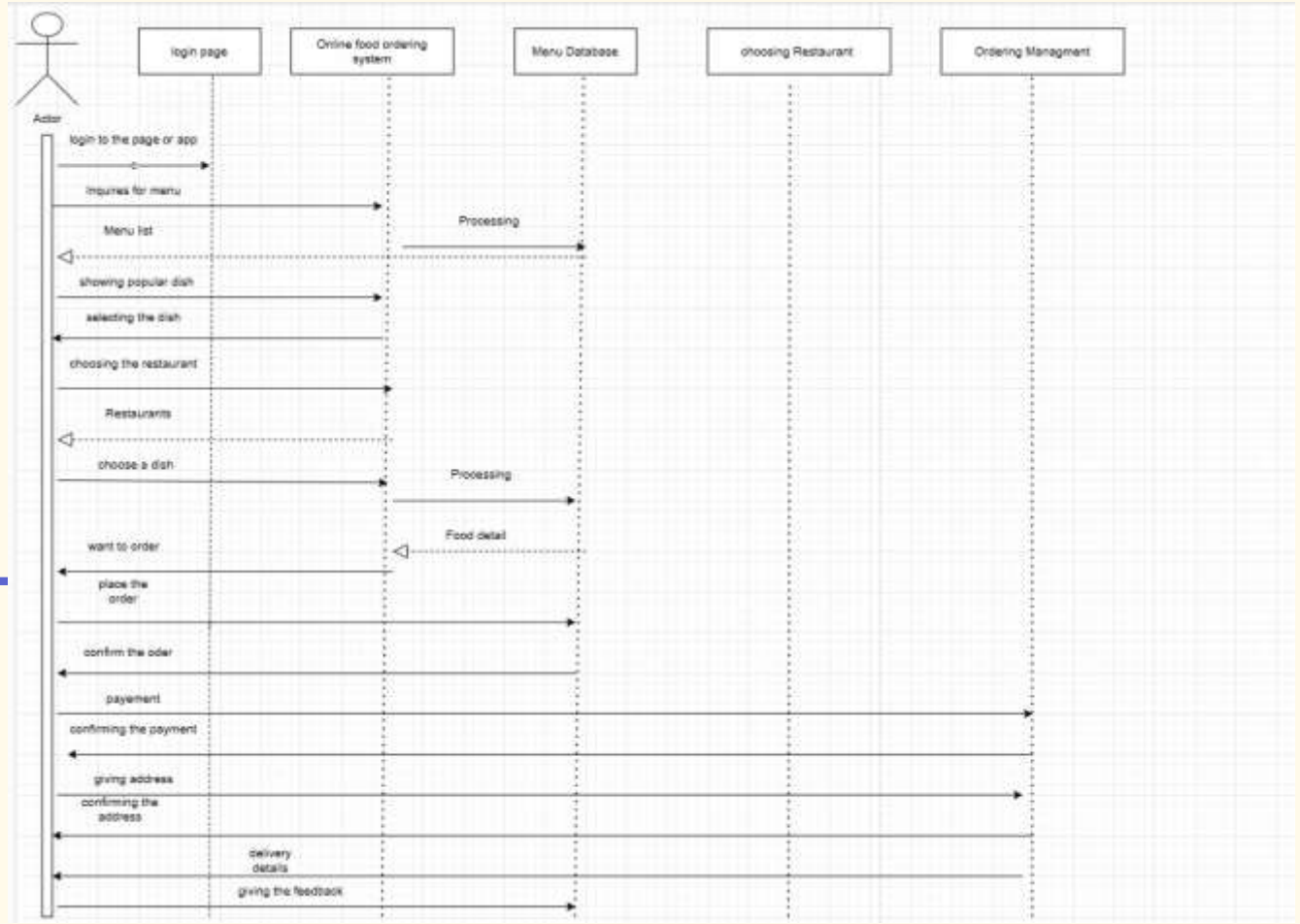
Class Diagram



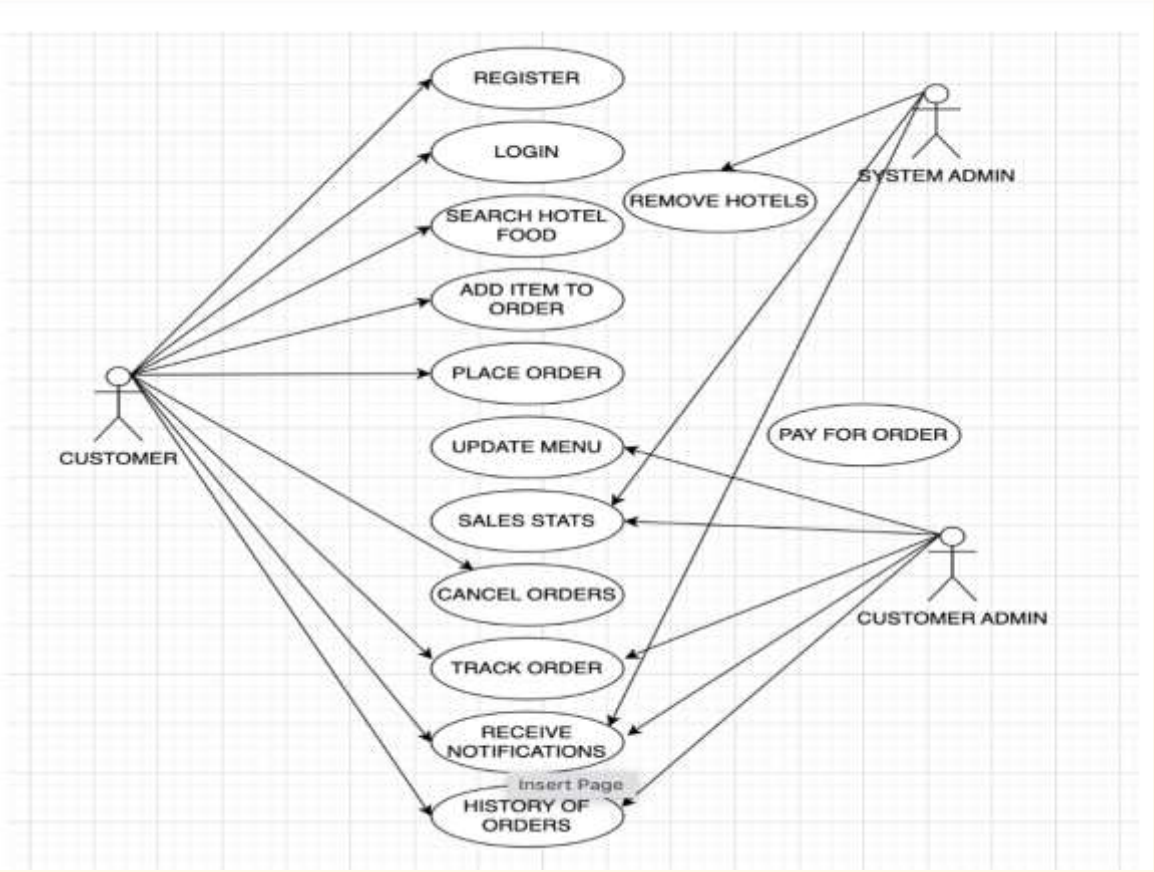


Sequence Diagram



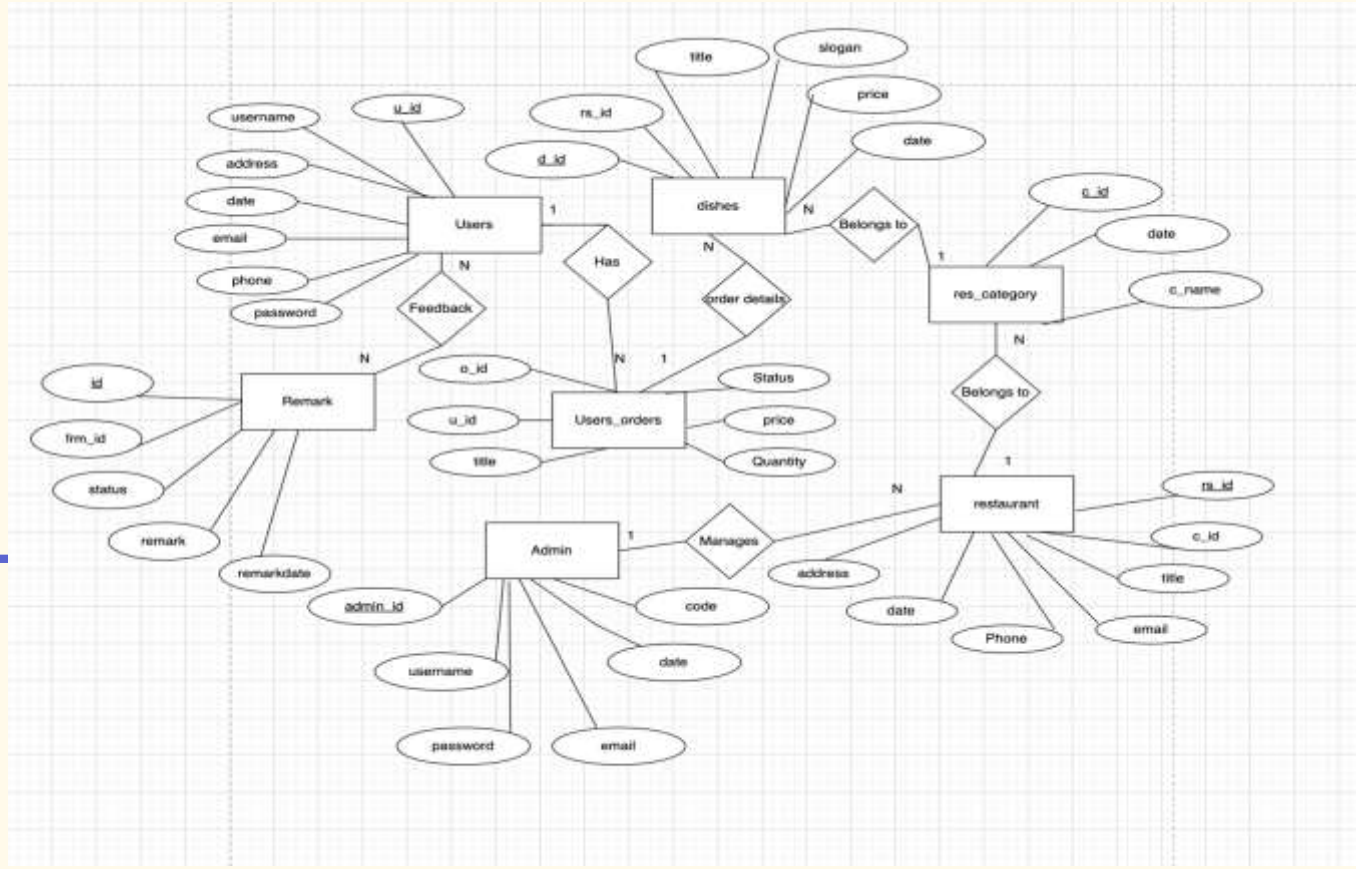


Use case Diagram



ER Diagram


PIZZA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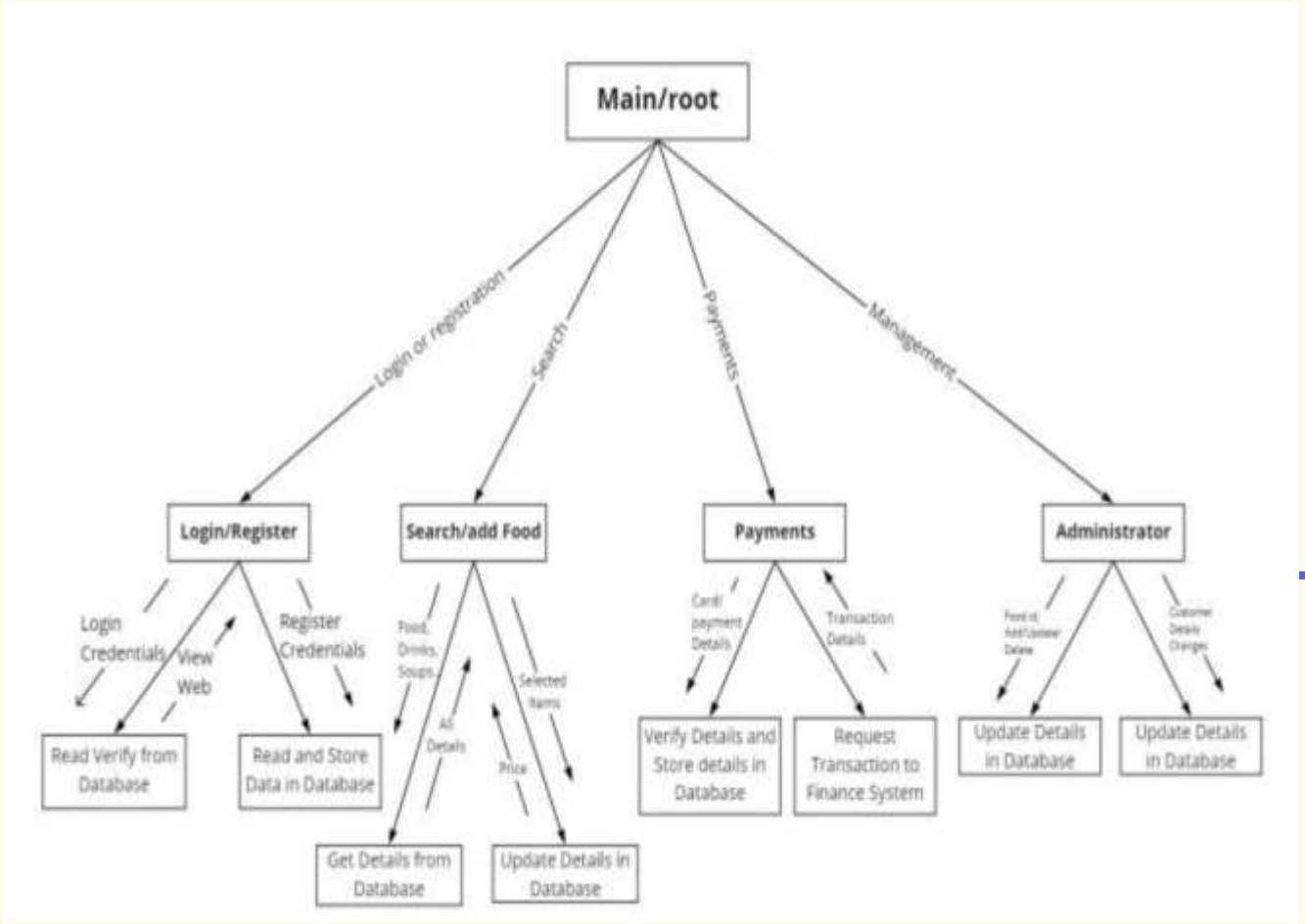
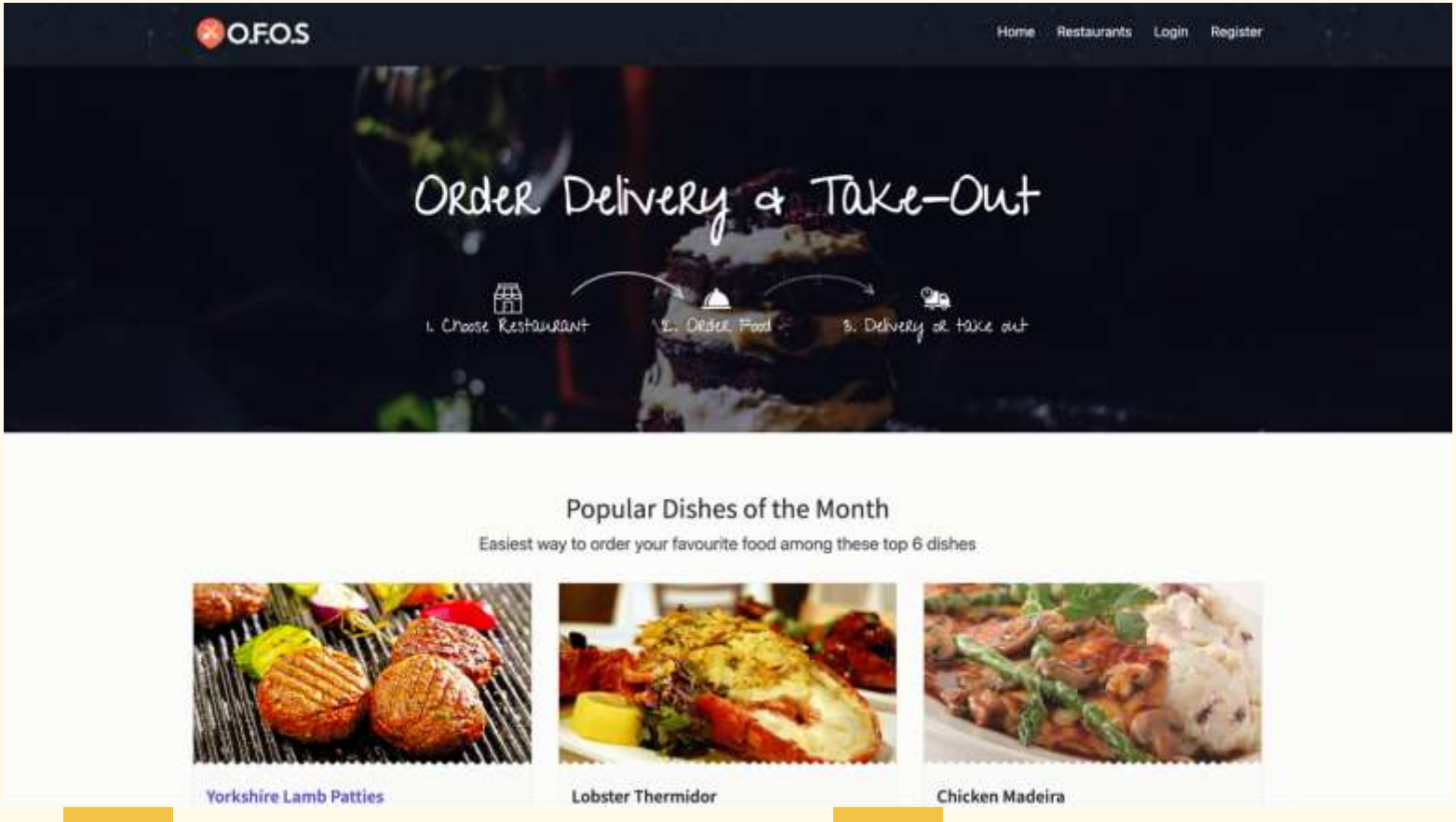
Structure chart Diagram



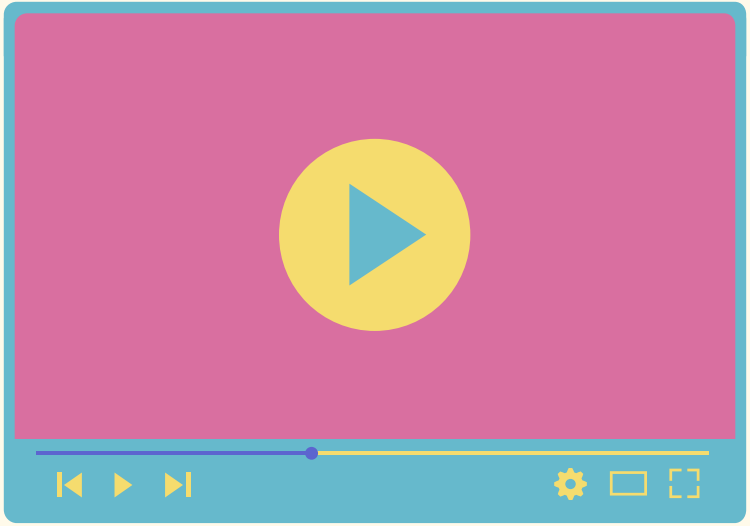
Let's see how far we came in designing the system

We will explain you the working of pur website along with backend database here.

Website screenshot



Product Demo



We will show you the product demo here

Testing

Database storing

Check whether the backend and frontend has been connected or not

Flow of content

Check the flow of website and its functionaity

Database connection

Check whether pre stored info is accepting or not

Mistakes

Purposely give wrong details and check whether it showing error or not

Further Updates

- Create a dedicated login page for different roles allowing them to access their accounts securely.
- Account confirmation Email
- Implement an order tracking system th enables customers to monitor the status and progress of their orders in real-time, enhancing transparency and convenience
- Include various contact methods for customers to reach out for inquiries or support.
- Allow customers to leave reviews and ratings for their café experiences.\

Feedback

Delivery Person

Delivery person will deliver the order on time and safe mode

User

Based on the quality of food and delivery experience, customer can give the review

Team members

SINDHU GAYATHRI (20MIS7007)

GVMJ DEEPTHI(20mis7046)

NSS AARTHI(20MIS7067)

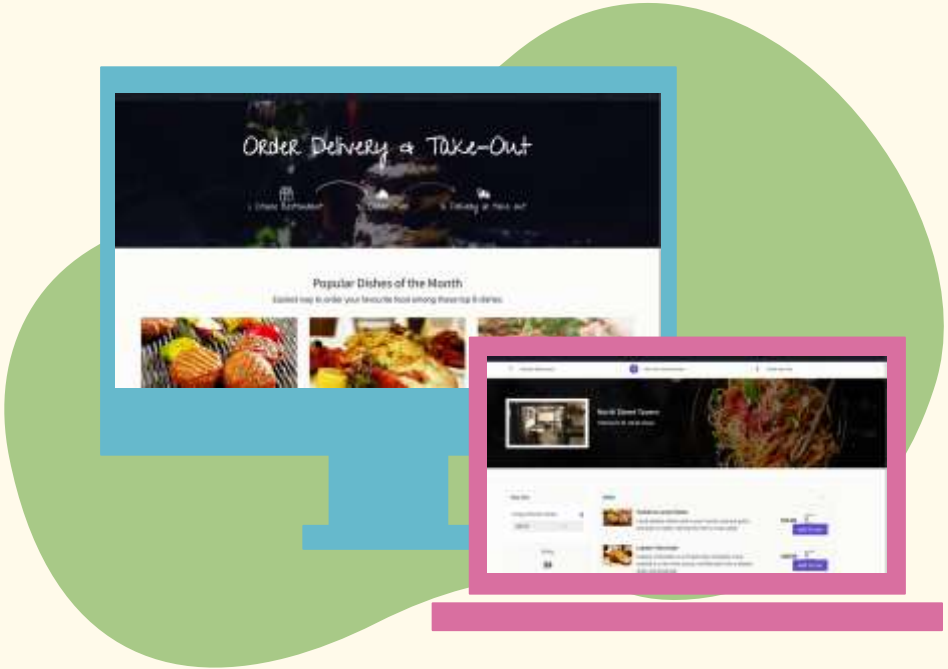
SAIPU MOUNIKA(21MIS7083)

B.TEJASWI(21MIS7102)

N.GANESH (21MIS7111)

B.GREESHMA(21MIS7124)

B.AMULYA(21MIS7138)



Thank You

It's time to enjoy the finer things in life.