A PROJECT REPORT ON

FAST FOOD POINT

DEVELOPED BY

PRATVI JIKADRA

GUIDED BY

PROF. PRASHIL MAHETA SIR

SUBMITTED TO

GLORIOUS COLLEGE OF COMPUTER SCIENCE

SAURASHTRA UNIVERSITY, RAJKOT–360 005

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PREFACE

Fast food has become an essential part of modern-day dining due to its convenience, affordability, and quick service. With the increasing demand for fast food, managing orders efficiently, ensuring customer satisfaction, and maintaining business operations have become crucial for restaurants.

This project, **Fast Food Point**, is designed to streamline and automate the process of ordering and managing fast food services. It aims to provide a user-friendly interface where customers can place orders seamlessly, while administrators can manage orders, track inventory, and monitor sales.

Developed using **NetBeans IDE** with **GlassFish Server**, this project utilizes **Java** for the backend and **Microsoft access database** for database management. The database includes a **'Person'** table that stores customer details, including their name and photo, ensuring a personalized user experience.

Through this project, I have gained valuable experience in **database management, server-side development, and user interface design**. This project not only showcases my technical skills but also highlights my ability to solve real-world business challenges through software development.

I sincerely hope that **Fast Food Point** will serve as an efficient solution for fast food businesses and will contribute to enhancing customer satisfaction and business growth.

ACKNOWLEDGEMENT

I take this opportunity to express my heartfelt gratitude and deep regards to my guide, **Prof. Prashil Maheta Sir** (**Glorious College of Computer Science**), for his exemplary guidance, continuous support, and encouragement throughout the course of this project. His valuable insights, timely suggestions, and constructive feedback have been instrumental in shaping this project successfully.

I would also like to extend my sincere thanks to **Prof. Prashil Maheta Sir** once again for his constant motivation, valuable information, and expert guidance, which helped me navigate through the various stages of this project with confidence and clarity.

Furthermore, I am deeply grateful to all the **faculty members of the BCA course** (**Glorious College of Computer Science**) for their unwavering support and the knowledge they have imparted to me in their respective fields. Their guidance has played a crucial role in my academic growth and project development.

Lastly, I express my profound gratitude to **the Almighty, my parents, and all those who have directly or indirectly supported me** in completing this project. Their unwavering faith, motivation, and blessings have been my biggest strength throughout this journey.

Thank you all!

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INTRODUCTION

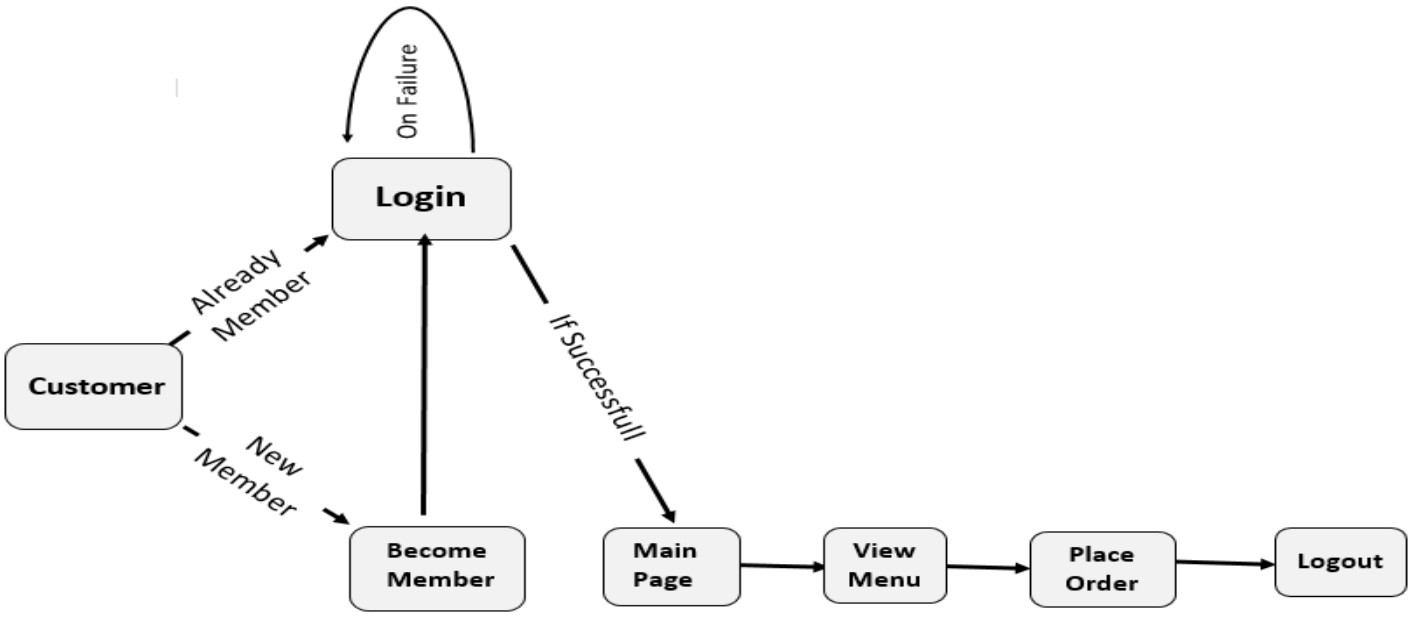
In today's fast-paced world, fast food has become an integral part of urban lifestyles. To streamline the ordering process and enhance customer experience, **Fast Food Point** is designed as a comprehensive food ordering and management system. This project aims to provide a user-friendly platform where customers can browse the menu, place orders, and make payments efficiently.

The system will help fast food businesses manage their operations effectively by automating order processing, inventory tracking, and customer management. It eliminates the need for manual order-taking, reducing errors and improving service speed.

Built using **Java, NetBeans IDE, GlassFish Server, and a database for data storage**, this system ensures seamless performance, security, and scalability. The project will also feature an intuitive graphical user interface (GUI) for easy navigation and interaction.

This system is designed to be **fast, reliable, and secure**, making it suitable for small to medium-sized fast food businesses. the **Fast Food Point** provides convenience for the customers.

❖ ***How To Use :***



PROJECT PROFILE

Project Name	: → **Fast Food Point**
Developed At	: → Glorious College of Computer Science, At: Rajkot
Developed By	: → **Pratvi Jikadra**
Main Pages	: → Home, About us, Menu, Cart, Contact us, Login, Admin
Operating System	: → Windows 11
Web Server	: → GlassFish Server
Web Browser	: →Google Chrome
Hardware Require For Internet Access	: → 8 GB RAM → 1 TB HDD →512 GB SSD → intel Core i5 processor → Windows 11 OS → VGA Monitor with 800 X 600 or Higher resolution → Internet Connection through Telephone Line or Mobile
Thanks To	: → Prashil Maheta Sir.

PROJECT DEFINITION

The **Fast Food Point** system is designed to automate and streamline the ordering, billing, and inventory management processes of a fast-food restaurant. This digital solution enhances efficiency, and improves customer satisfaction by ensuring quick and accurate service.

❖ **Key Objectives of the Project:**

1. **Customer Order Management:**
   - Allows customers to place orders online or at the counter.
   - Provides a user-friendly interface for menu browsing and order customization.
2. **Menu and Inventory Management:**
   - Tracks stock levels of ingredients and notifies management about low stock.
   - Helps in reducing food waste through efficient inventory tracking.
3. **Billing and Payment Integration:**
   - Automates the calculation of bills, including taxes and discounts.
   - Supports multiple payment methods (cash, card, upi,etc).
4. **User Role Management:**
   - Defines different access levels for **admins, and customers**.
   - Ensures secure handling of customer data and transaction records.
5. **Order Tracking and Notifications:**
   - Displays real-time order status updates for both customers and staff.
   - Sends notifications regarding order preparation and completion.
6. **Security and Data Management:**
   - Protects sensitive customer and transaction data using encryption.
   - Implements authentication and authorization for secure system access.

This system will **enhance the speed and accuracy** of fast-food operations, ensuring a **seamless experience for customers and restaurant staff alike**.

SYSTEM ANALYSIS

❖ Information Gathering

The initial phase of system analysis involved understanding the structure and workflow of a fast-food restaurant, including how orders are placed, processed, and fulfilled. The business logic for each module, such as **menu management, order processing, analysis**, was analyzed. To gather requirements, a detailed study was conducted through research on existing fast-food management systems and discussions with industry experts.

❖ Feasibility Analysis:-

Feasibility analysis is a crucial step in assessing whether the **Fast Food Point** system is practical, efficient, and beneficial for the business. The study evaluates the system's impact on the restaurant's operations, its ability to meet user needs, and the resources required for development.Since **time, and financial resources** are key factors in any project, a feasibility study helps determine whether the system is **viable and worth implementing**.

❖ Economic Feasibility:-

Economic feasibility focuses on the **cost-benefit analysis** of the system. The **Fast Food Point** system is designed to minimize manual workload, reduce order processing errors, and enhance efficiency, leading to increased revenue and reduced operational costs.

❖ Operational Feasibility:-

Operational feasibility assesses how well the proposed system fits within the organization and its day-to-day operations. The **Fast Food Point** system is designed to be **user-friendly, efficient, and adaptable**, ensuring smooth integration into a restaurant's workflow. The system provides a **fast and seamless ordering experience**, ensuring higher satisfaction levels. the system is highly **operationally feasible** and will significantly enhance restaurant operations.

❖ Technical Feasibility:-

Technical feasibility assesses whether the **Fast Food Point** system can be successfully developed and implemented using available technology. This evaluation includes factors such as **performance, reliability, maintainability, and scalability** of the system.

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Project Name	Fast Food Point
Language Used	Java
Database	Microsoft Access
User Interface Design	HTML,JAVASCRIPT,CSS
Web Browser	Mozilla, Google Chrome, IE8, OPERA
Web Server	GlassFish Server
Communication Tools	Intranet/Internet
Software	NetBeans IDE

❖ Schedule Feasibility:-

To determine the schedule feasibility of the **Fast Food Point** project, it's important to assess the time required for each phase of development and compare it with the available timeline.

1. **Requirement Gathering and Analysis** (3-days)
2. **System Design** (1- weeks)
3. **Database Setup and Backend Development** (2-weeks)
4. **Frontend Development** (3- weeks)
5. **Testing and Debugging** (2-3 weeks)
6. **Deployment and Documentation** (1 weeks)
7. **Final Review and Presentation** (4-days)

❖ Cost-Benefit Analysis:-

A cost-benefit analysis is necessary to determine economic feasibility. The primary objective of the cost-benefit analysis is to find out whether it is economically worthwhile to invest in the project. If the return on the investment is good, then the project is considered economically worthwhile.

ABOUT JAVA

Java Programming Language

Java is a **high-level, object-oriented, platform-independent** programming language developed by **James Gosling** at **Sun Microsystems** (now owned by Oracle) and released in **1995**. It is widely used for developing web applications, mobile apps, enterprise software, and more.

Key Features of Java:

1. **Platform-Independent:**
   - Java follows the "Write Once, Run Anywhere" (WORA) principle.
2. **Object-Oriented:**
   - Java is based on OOP concepts like encapsulation, inheritance, and polymorphism**.**
3. **Simple and Secure:**
   - Java removes complex features like pointers (used in C++) to enhance security and simplicity.
4. **Automatic Memory Management:**
   - Java has Garbage Collection, which automatically handles memory allocation and deallocation.
5. **Multithreading:**
   - Java supports multithreading**,** allowing the execution of multiple tasks simultaneously.
6. **Robust and Reliable:**
   - Java provides features like exception handling and strong memory management, making applications more stable.
7. **Rich API and Libraries:**
   - Java provides a vast set of predefined libraries for networking, data structures, graphics, etc.

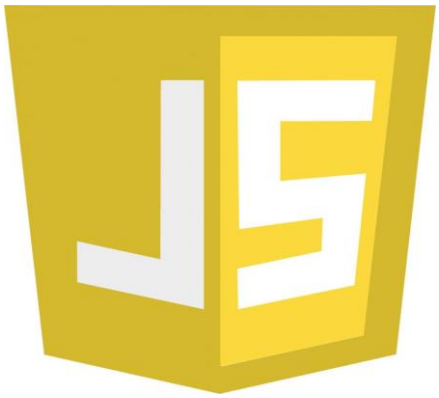
✓ **About HTML** **Hyper Text Markup Language**

In 1980, physicist Tim Berners-Lee, who was an independent contractor at CERN, proposed and prototyped ENQUIRE, a system for CERN researchers to use and share documents. In 1989, Berners-Lee and CERN data systems engineer Robert Cailliau each submitted separate proposals for an Internet-based hypertext system providing similar functionality. The following year, they collaborated on a joint proposal, the Worldwide Web (W3) project, which was accepted by CERN.

✓ **About CSS** **Cascading Style Sheets**

CSS was developed by Håkon Wium Lie in 1994**.** CSS is a stylesheet language used to control the layout and design of HTML web pages. It allows developers to apply colors, fonts, spacing, animations, and responsive designs to enhance the appearance of a website. By mastering CSS, you can enhance the user experience and make web applications look modern and professional.

✓ **About JavaScript** **JavaScript**



JavaScript (JS**)** is a high-level, dynamic, and interpreted programming language used to create interactive and dynamic web pages. It was developed by Brendan Eich in 1995 while working at Netscape**.**JavaScript is one of the core technologies of web development, alongside HTML and CSS**.**

ABOUT JSP

JavaServer Pages

JSP (JavaServer Pages**)** is a server-side technology used to create dynamic web applications in Java. It was developed by Sun Microsystems (now Oracle) and released in 1999 as an extension of Servlets to simplify web development.

❖ Key Features of JSP:

1. **Dynamic Content Generation** :
   - Allows embedding Java code in HTML.

2. **Simplifies Servlets :**
   - Reduces complexity by handling UI inside JSP files.

3. **Platform-Independent :**
   - Runs on any server with a Java-enabled environment (e.g., Tomcat, GlassFish).

4. **Built-in Tags & Expressions** :
   - Uses JSP tags like <%= %>, <% %>, and JSP directives to embed Java code.

5. **Faster Development** :
   - Separates business logic (Java) from presentation (HTML).

6. **Supports MVC Architecture :**
   - Often used with Servlets and Beans to follow Model-View-Controller (MVC) design.

ABOUT SERVLET

A Servlet is a Java program that runs on a web server and handles client requests, usually over HTTP**.** It is a fundamental component of Java EE (Jakarta EE) used for building dynamic web applications.

❖ How Servlets Work

1. **Client Sends a Request** → A user accesses a web page or sends data through a form.
2. **Servlet Processes the Request** → The server forwards the request to the servlet.
3. **Servlet Generates a Response** → The servlet processes data, interacts with the database if needed, and generates an HTML response.
4. **Client Receives the Response** → The response is sent back to the user's browser.

❖ Key Features of Servlets

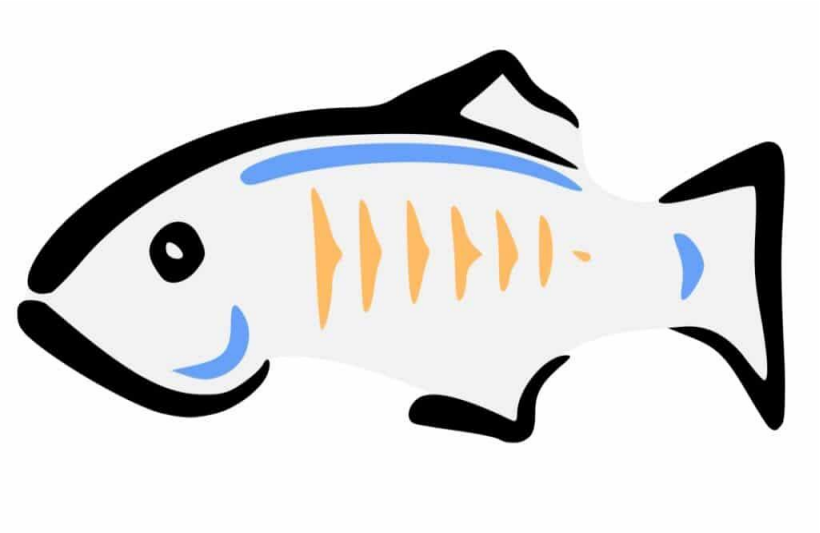
✓ **Platform-Independent** – Runs on any Java-supported OS.

✓ **Efficient & Scalable** – Unlike CGI scripts, servlets handle multiple requests using threads instead of creating new processes.

✓ **Integration with Java EE** – Works with **JSP**, **JDBC**, and other Java EE technologies.

✓ **Session Management** – Supports **cookies**, **URL rewriting**, and **HttpSession** for maintaining user sessions.

ABOUT GLASSFISH SERVER



GlassFish Server

❖ What is GlassFish Server?

GlassFish is an open-source application server developed by Sun Microsystems (now owned by Oracle). It is used to deploy and run Java EE (Jakarta EE) applications, including Servlets, JSP, EJB, and RESTful web services.

❖ Key Features of GlassFish Server

✓ **Supports Java EE (Jakarta EE)** – Fully compliant with enterprise Java standards.

✓ **Fast & Lightweight** – Optimized for quick deployment and high performance.

✓ **Modular Architecture** – Uses OSGi for flexibility and scalability.

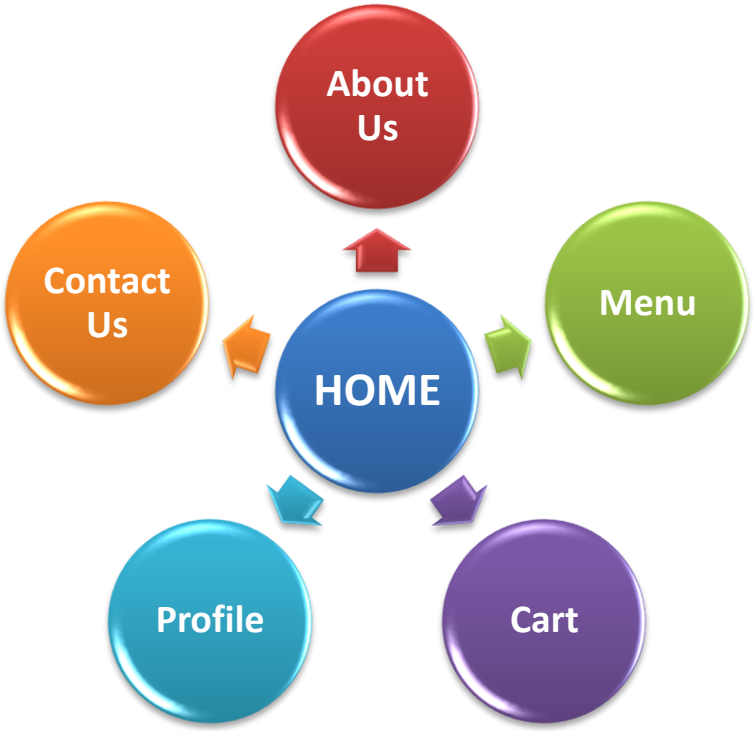
✓ **Built-in Admin Console** – Provides a web-based UI for managing applications.

✓ **Supports Clustering** – Allows load balancing and failover support.

✓ **Security & Authentication** – Integrates with Java Authentication and Authorization Service (JAAS).

PROJECT DIAGRAM

➢ User Side



➢ Admin Side

DATA DICTIONARY

❖ Admin Table

admins

Field Name	Data Type
ID	AutoNumber
username	Short Text
password	Short Text

❖ Customer Registration Table

customer

Field Name	Data Type
ID	AutoNumber
fullname	Short Text
email	Short Text
username	Short Text
password	Short Text

❖ Contact Us Table

contact

Field Name	Data Type
ID	AutoNumber
name	Short Text
email	Short Text
message	Short Text
sumitted_at	Date/Time

❖ Food_Items Table

food_items

Field Name	Data Type
food_id	AutoNumber
food_name	Short Text
category	Short Text
price	Number
image	OLE Object

❖ Order Table

orders

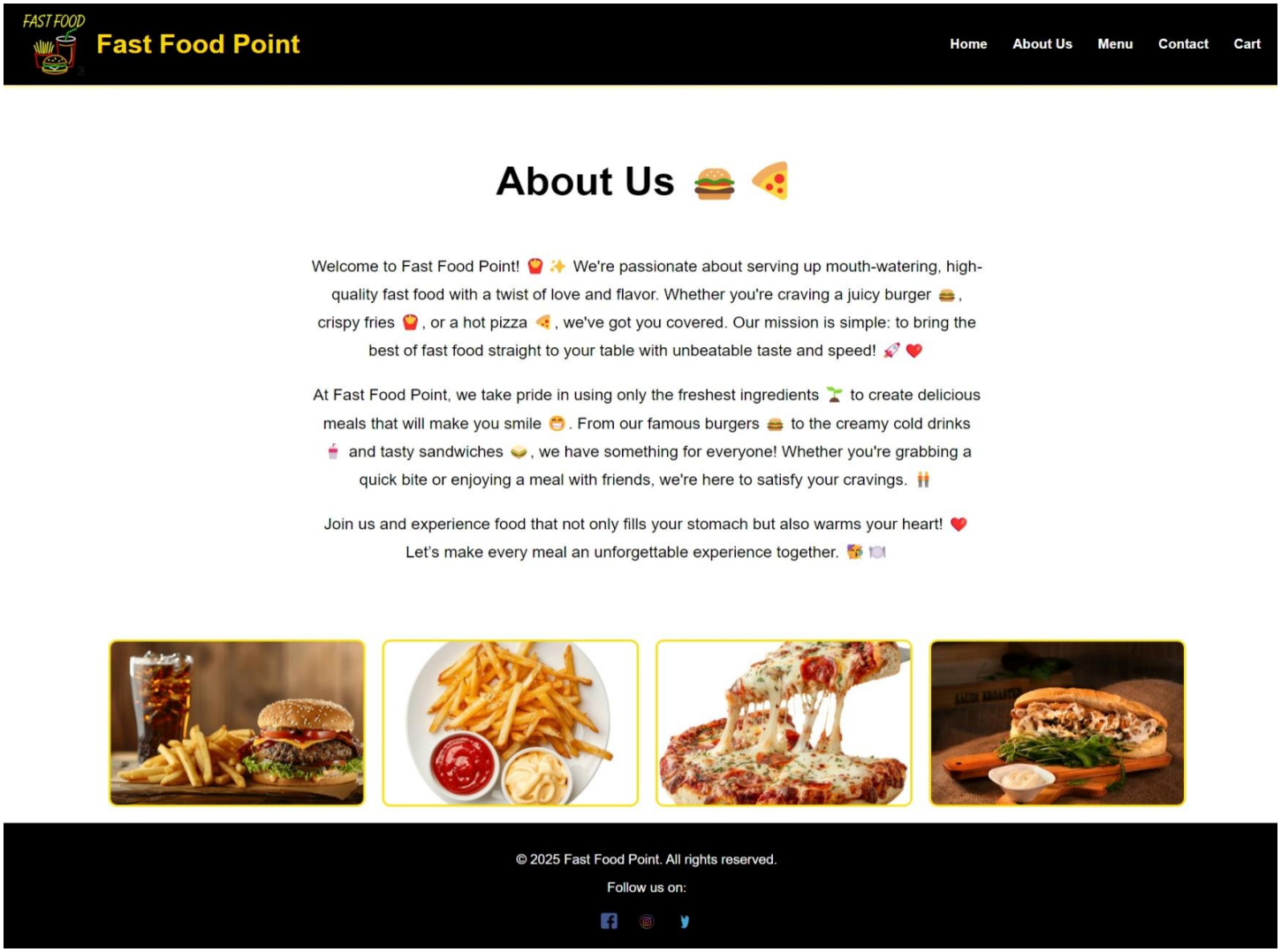
Field Name	Data Type
name	Short Text
email	Short Text
phone	Short Text
address	Short Text
payment_method	Short Text
payment_amount	Number
item_name	Short Text
quantity	Short Text
total	Short Text
status	Short Text

PHYSICAL LAYOUT

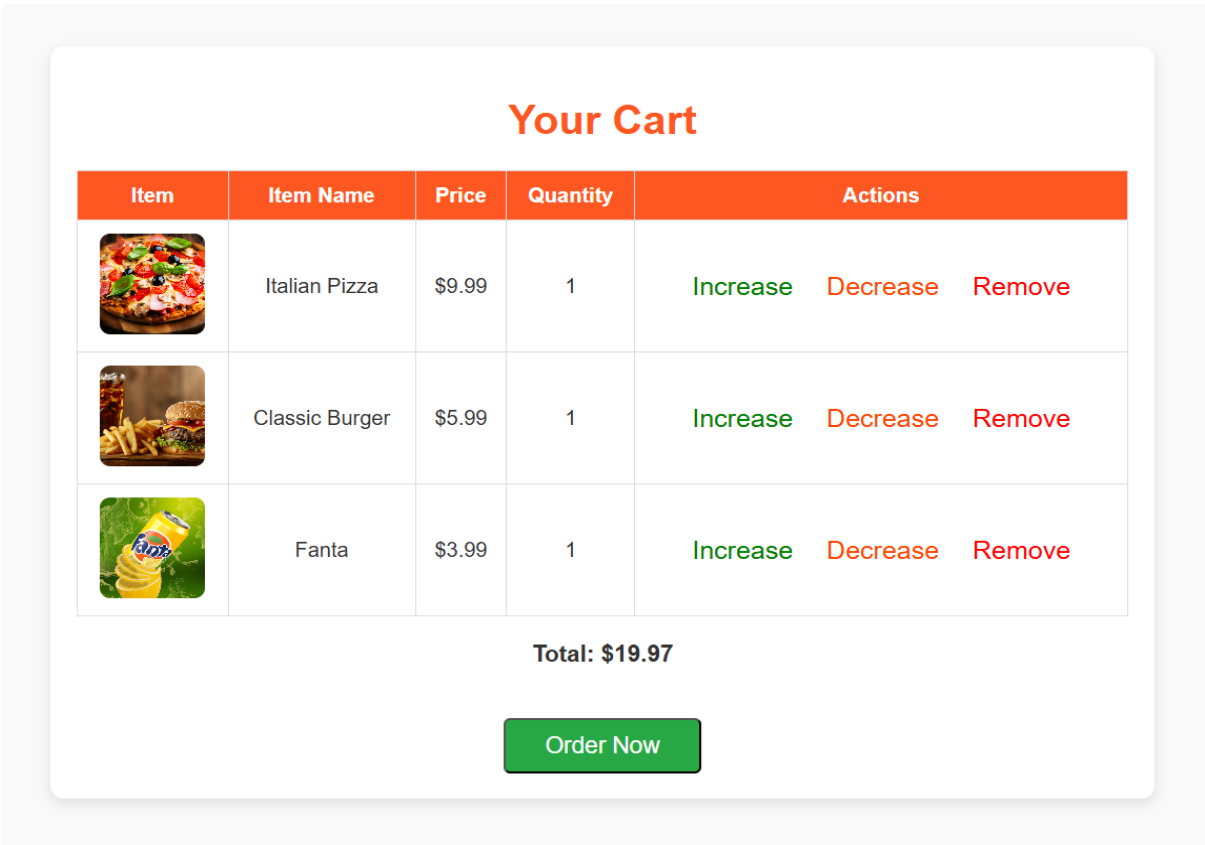
❖ User Side

➢ Home Page :

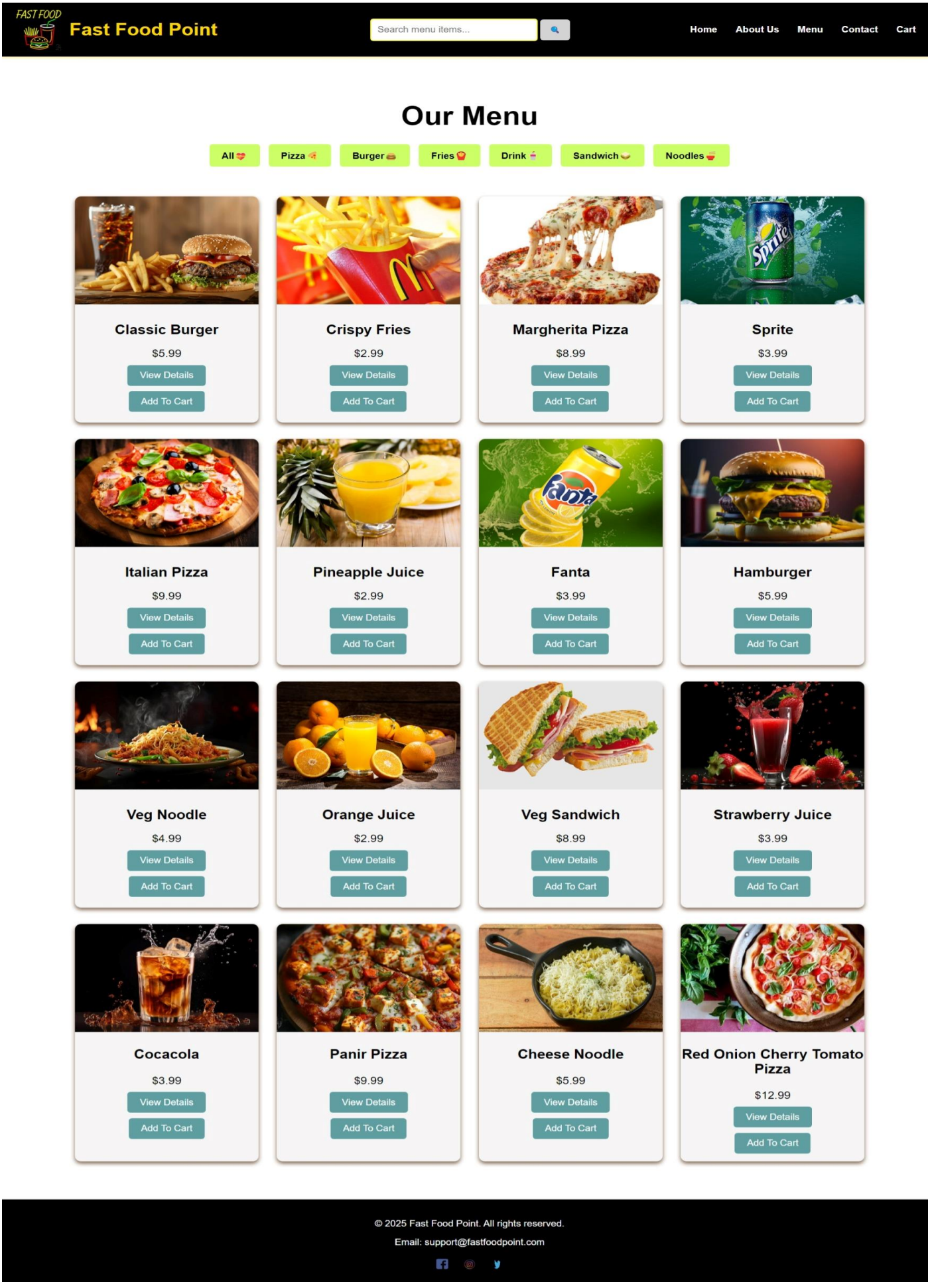
- About Us Page:



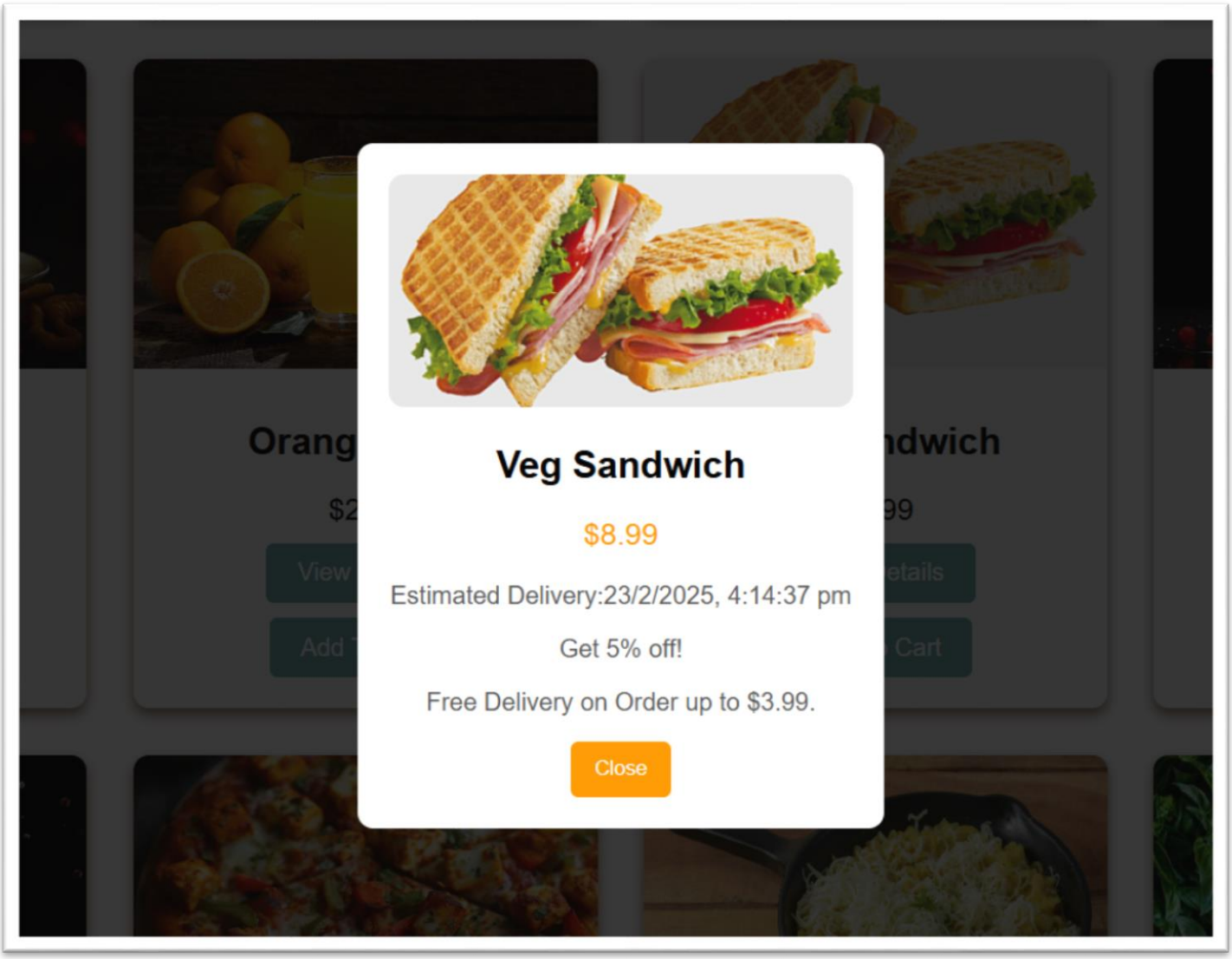
- Your Cart Page :



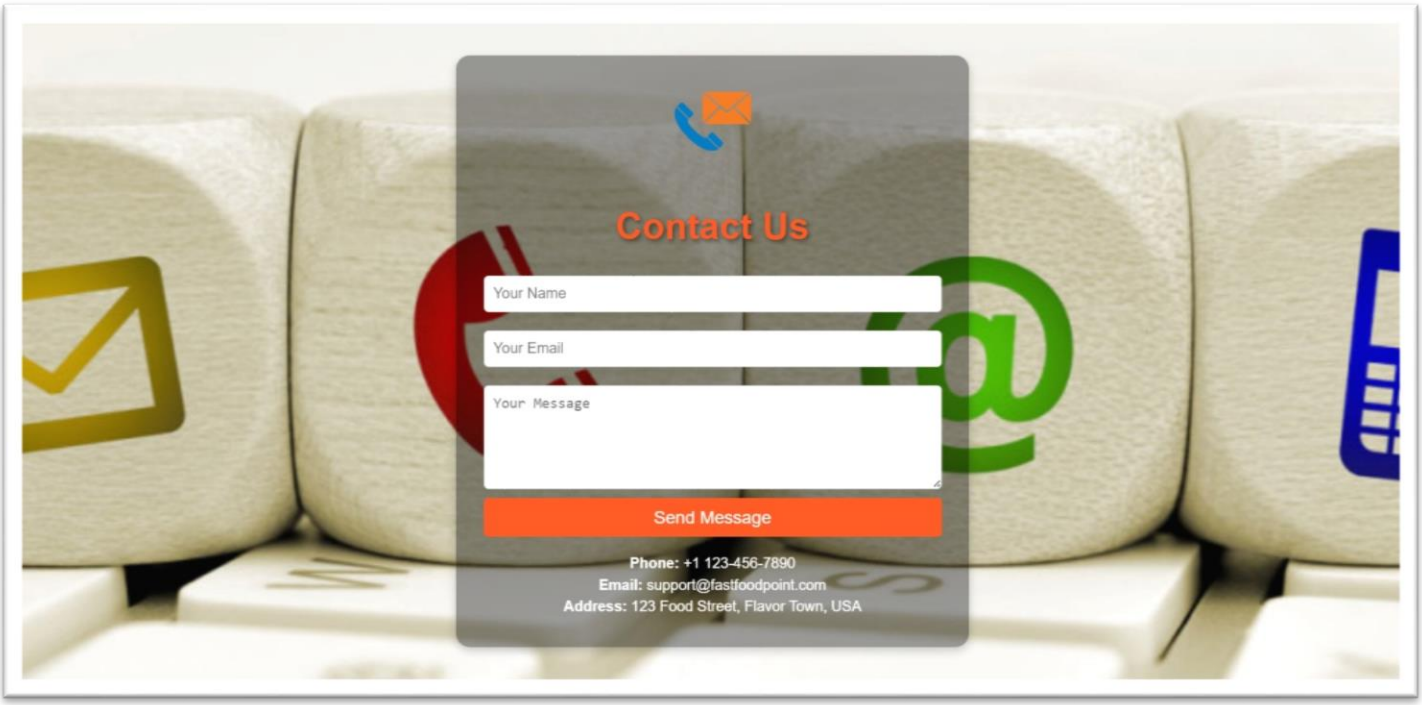
- Menu Page :


Fast Food Point
Search menu items...
Home
About Us
Menu
Contact
Cart
Our Menu
All
Pizza
Burger
Fries
Drink
Sandwich
Noodles
Classic Burger
$5.99
Crispy Fries
$2.99
Margherita Pizza
$8.99
Sprite
$3.99
Italian Pizza
$9.99
Pineapple Juice
$2.99
Fanta
$3.99
Hamburger
$5.99
Veg Noodle
$4.99
Orange Juice
$2.99
Veg Sandwich
$8.99
Strawberry Juice
$3.99
Cocacola
$3.99
Panir Pizza
$9.99
Cheese Noodle
$5.99
Red Onion Cherry Tomato Pizza
$12.99
View Details
Add To Cart
© 2025 Fast Food Point. All rights reserved.
Email: support@fastfoodpoint.com

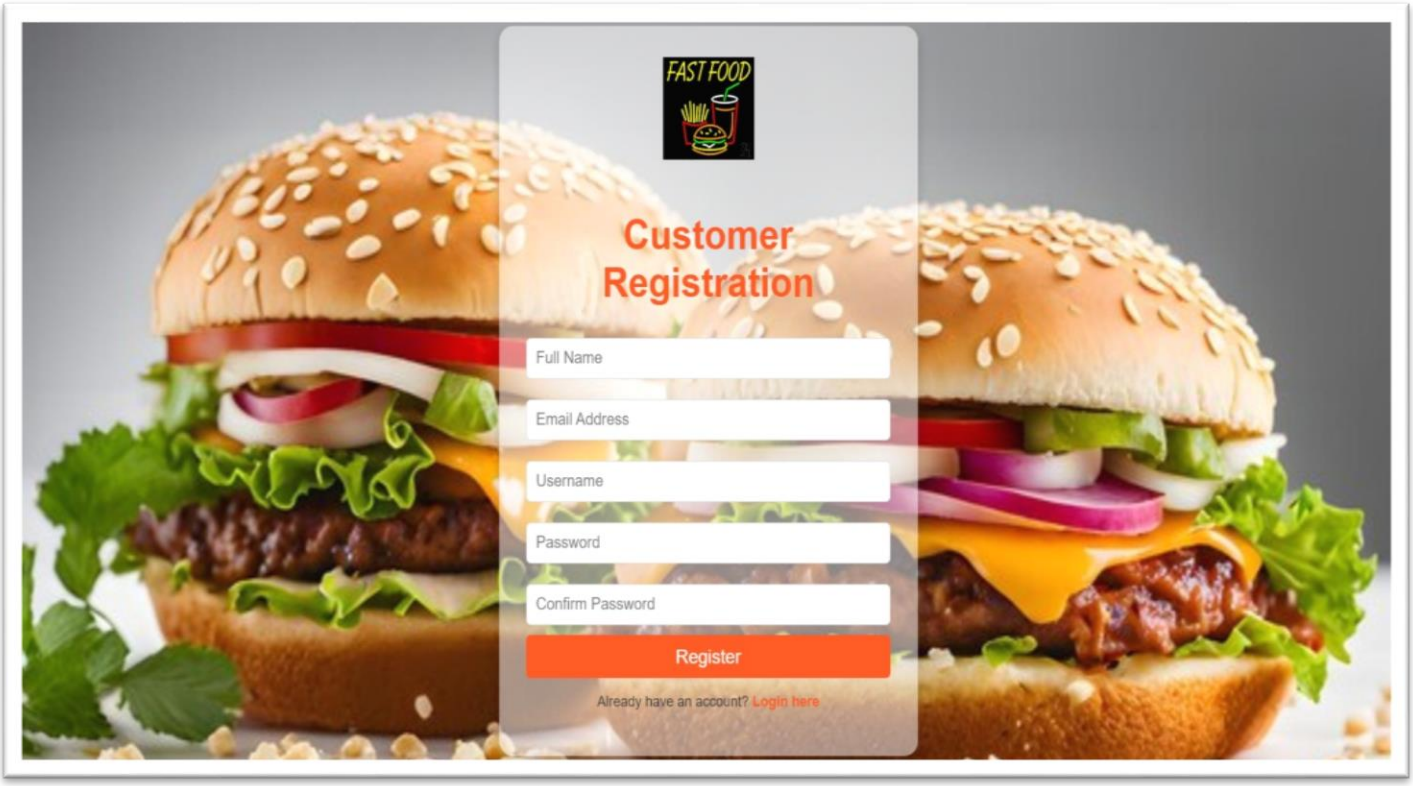
➪ View Details



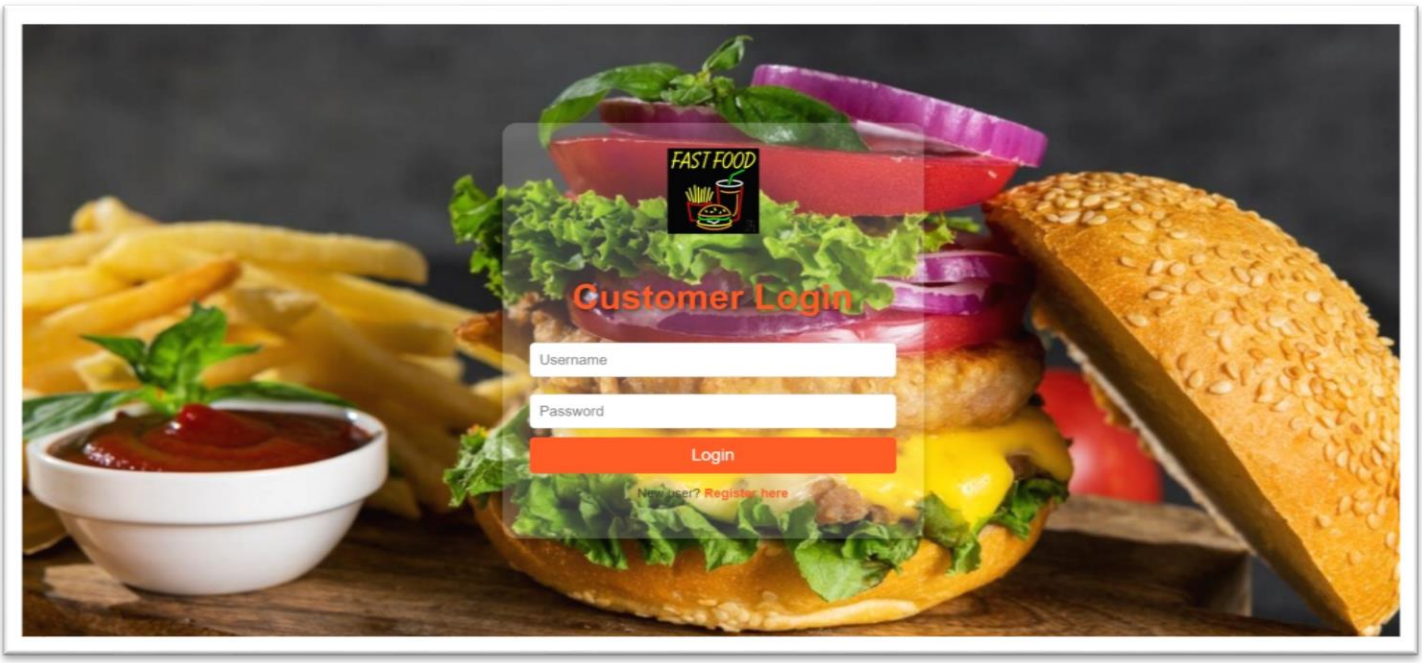
➢ Contact Us Page :



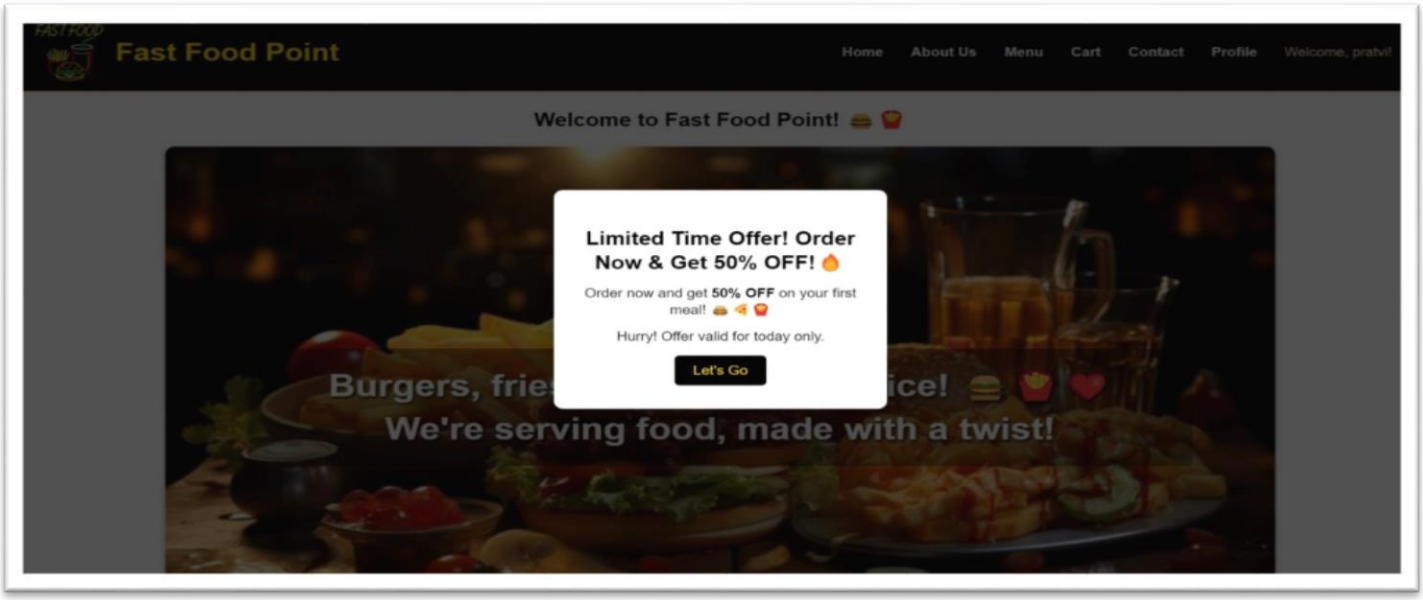
- Registration Page :



- Login Page :

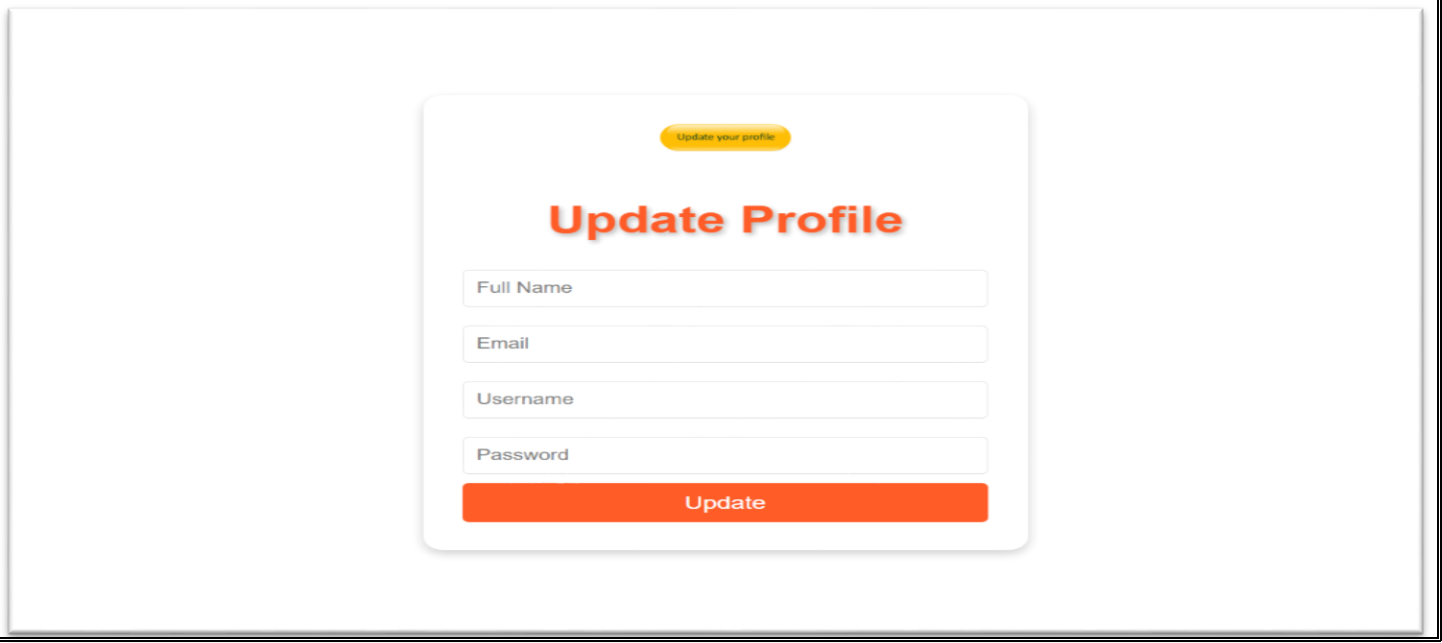


- Offer For User After Login :

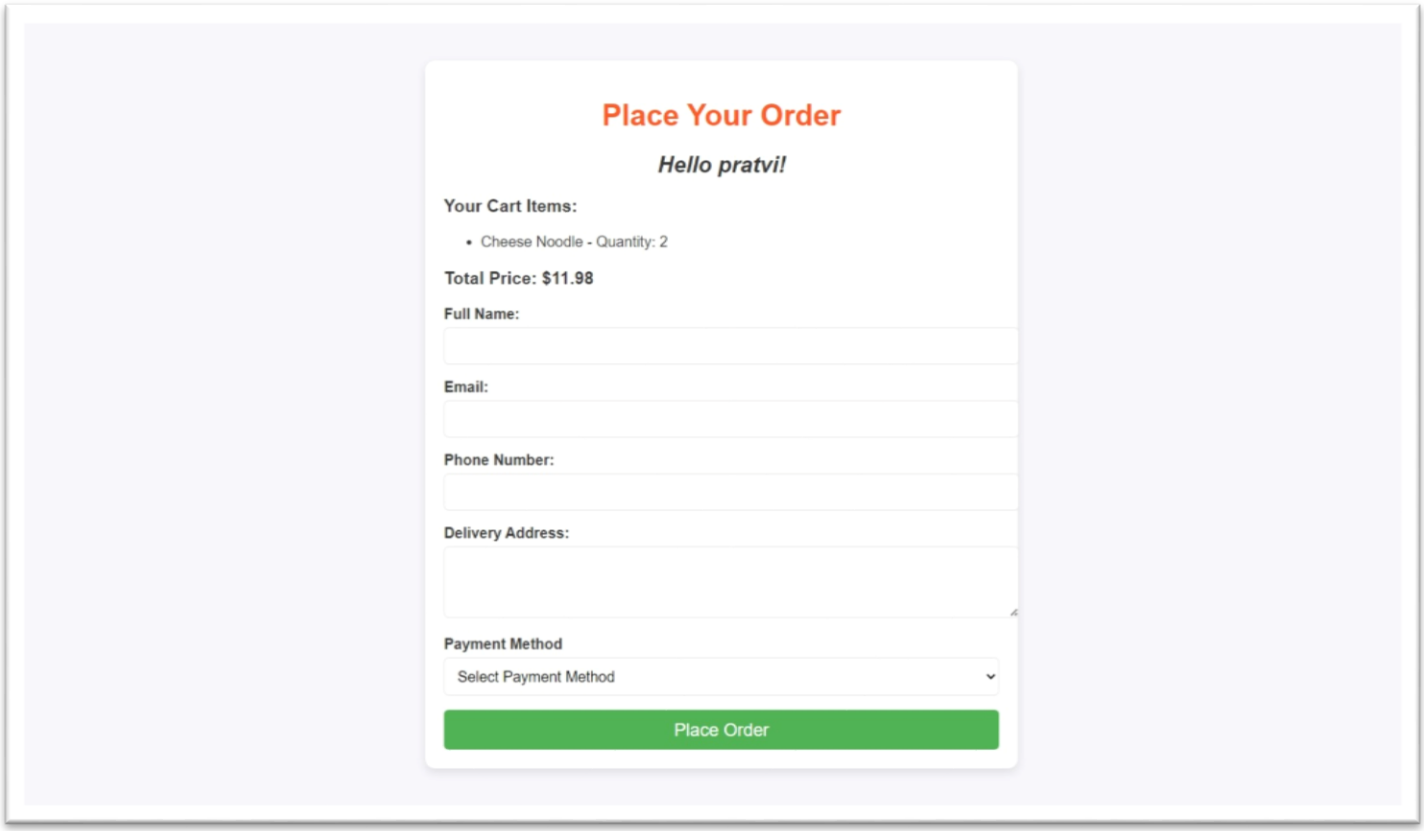


- **Profile Page :**
  - ⇨ Show Profile :

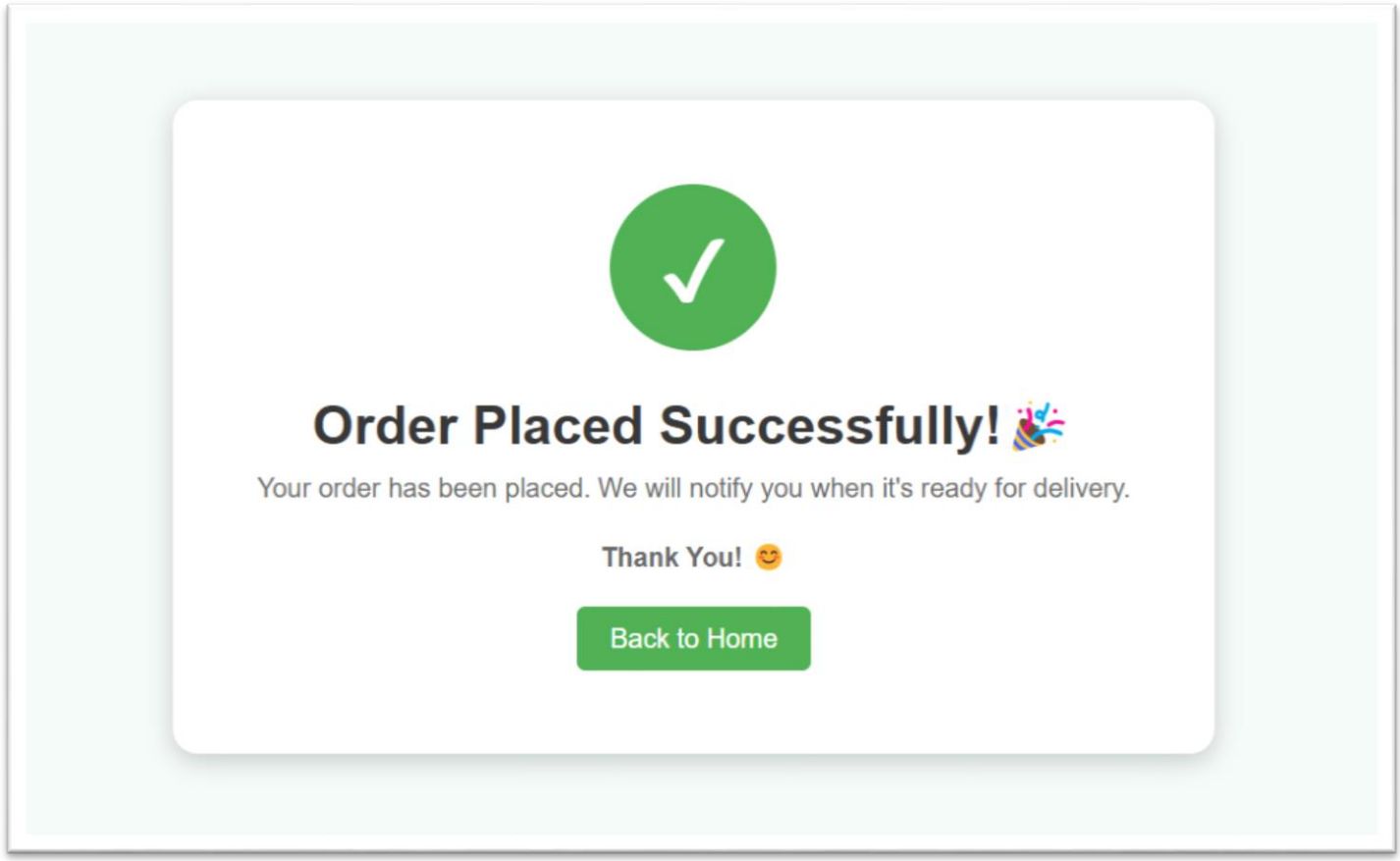
  - ⇨ Update Profile :



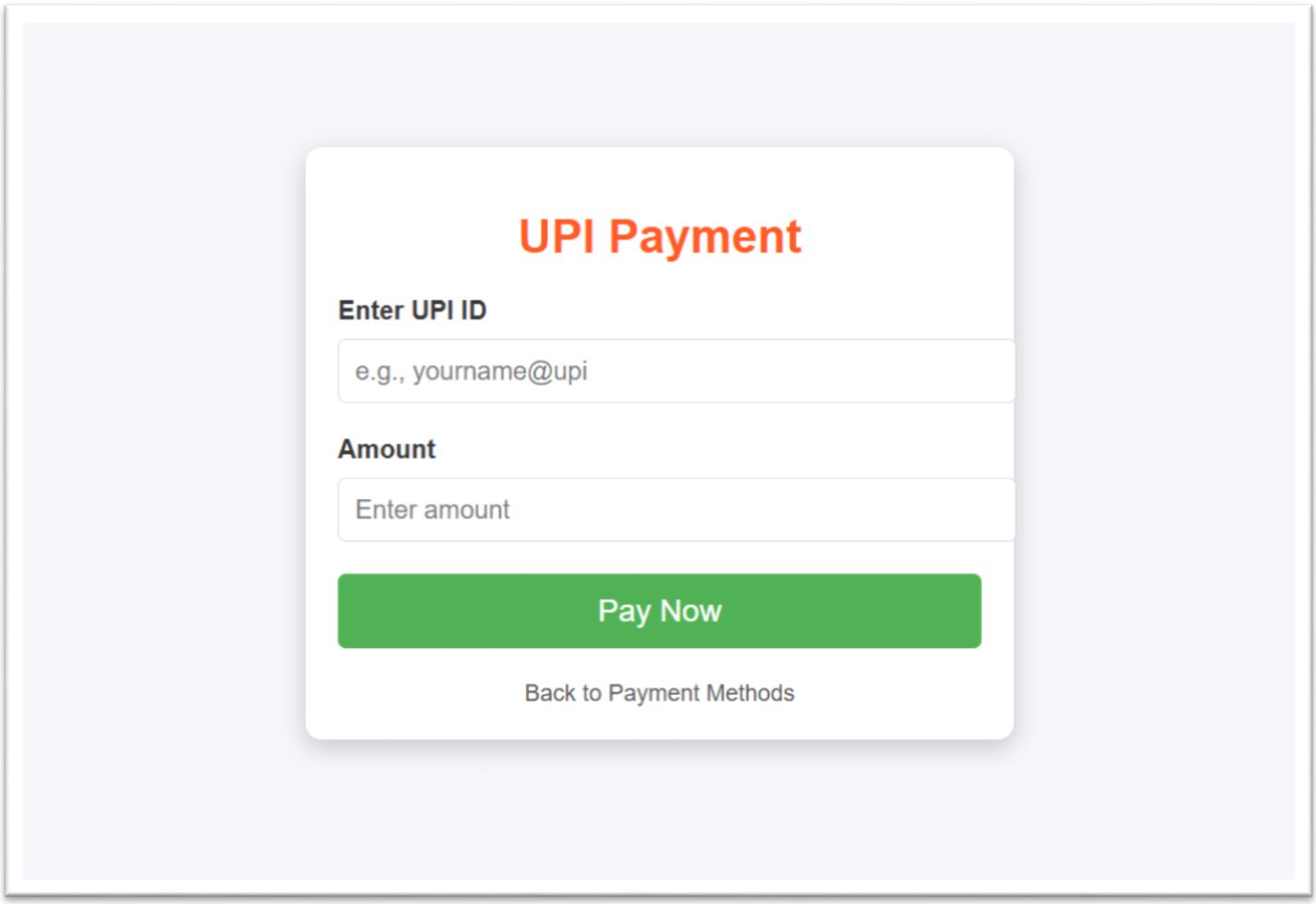
- Place Order Page :



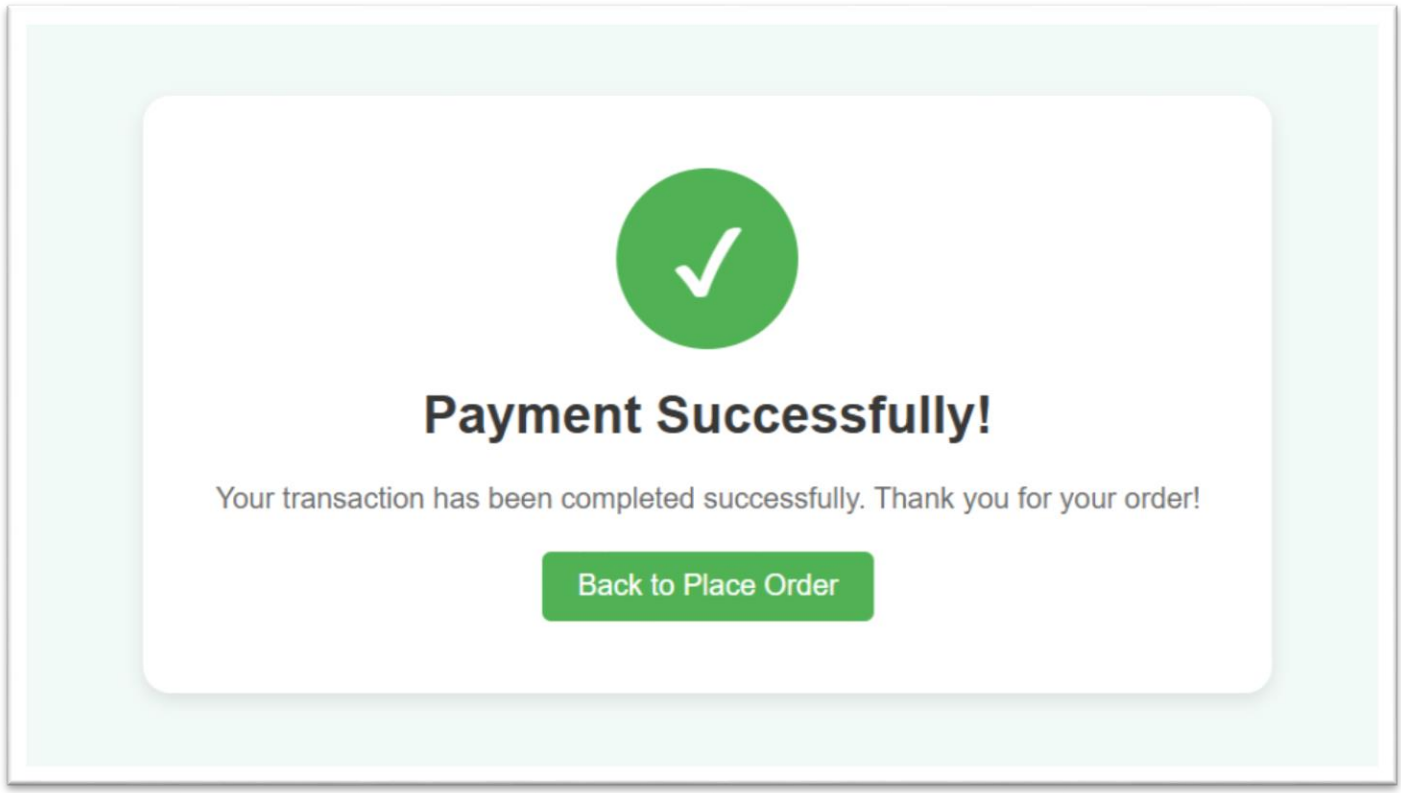
⇨ Order Successful Page



- UPI Payment Method :

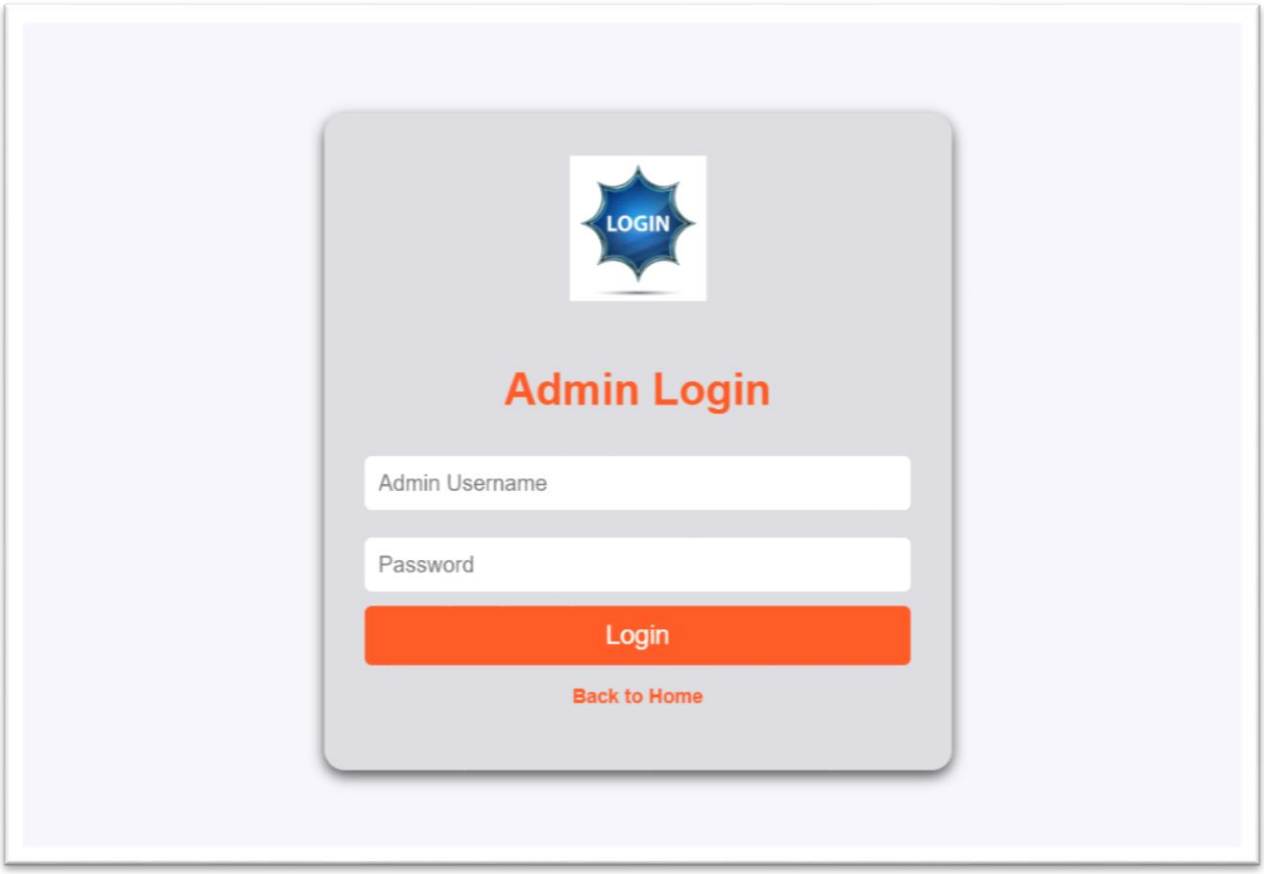


⇨ Payment Successful Page

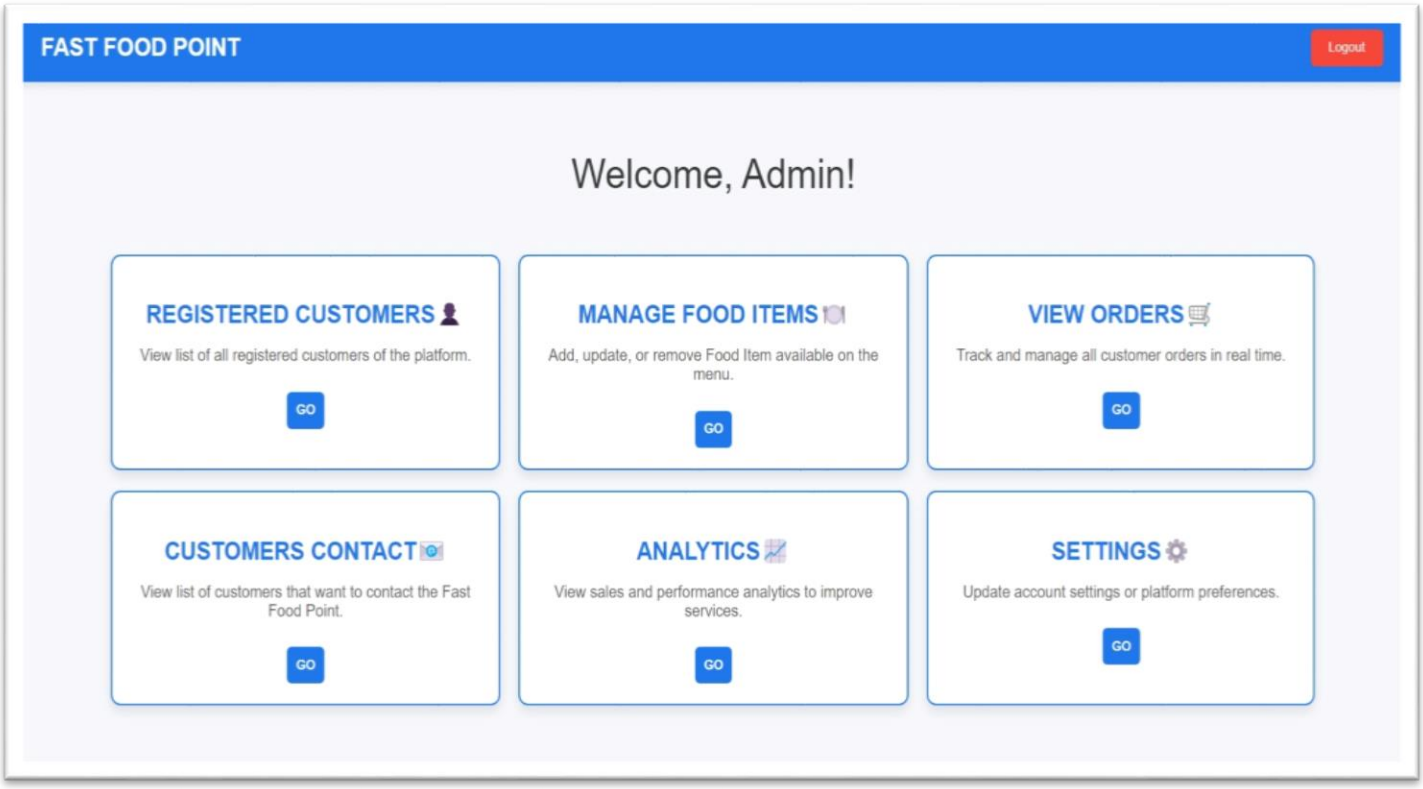


❖ Admin Side

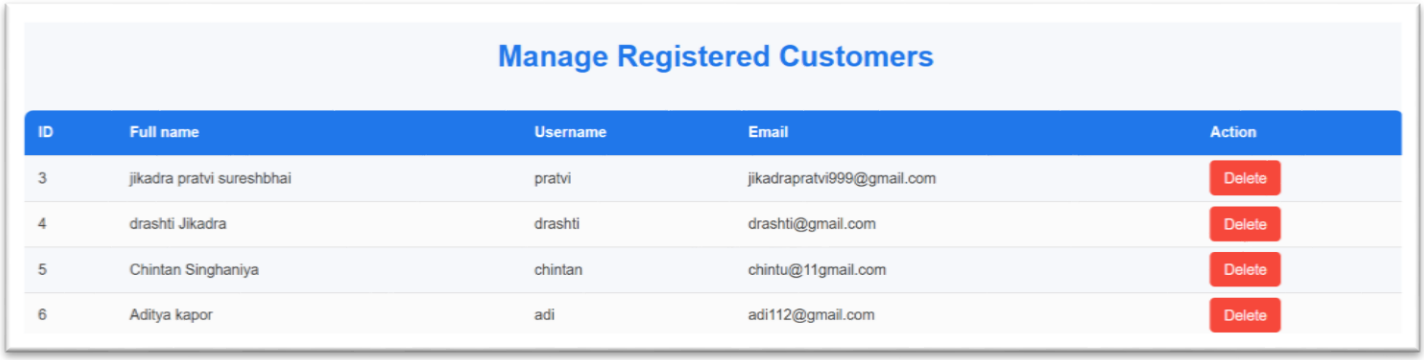
- Login Page :



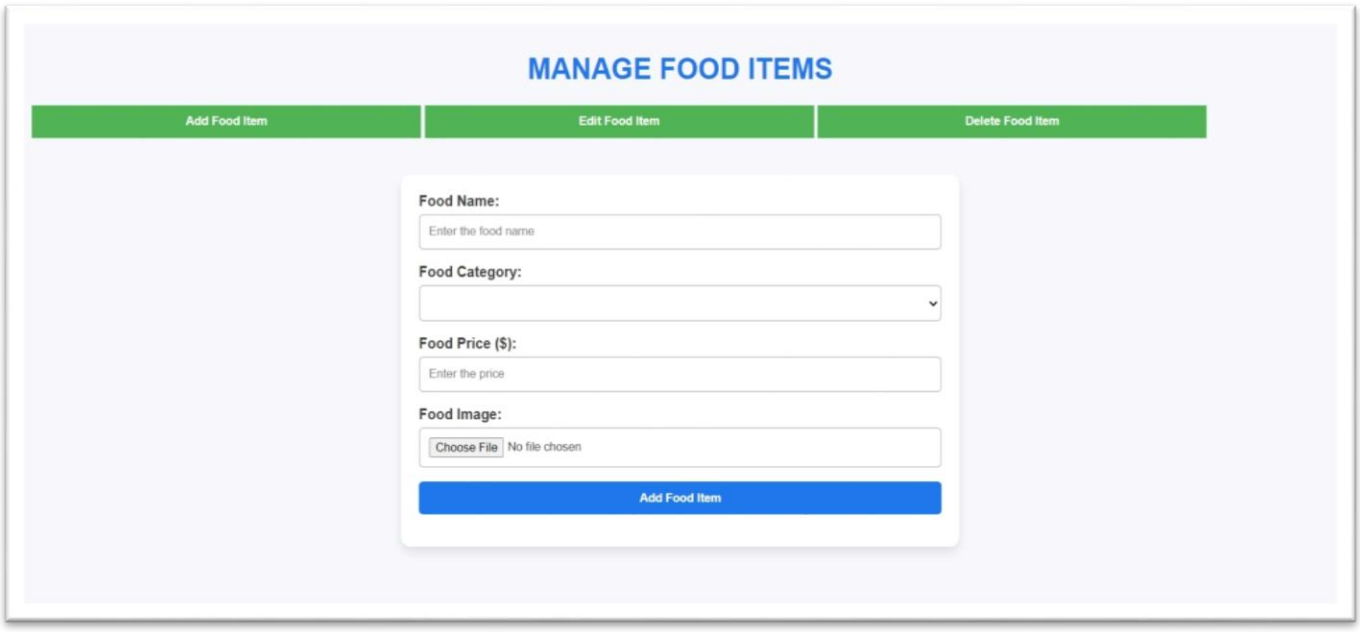
- Admin Dashboard :



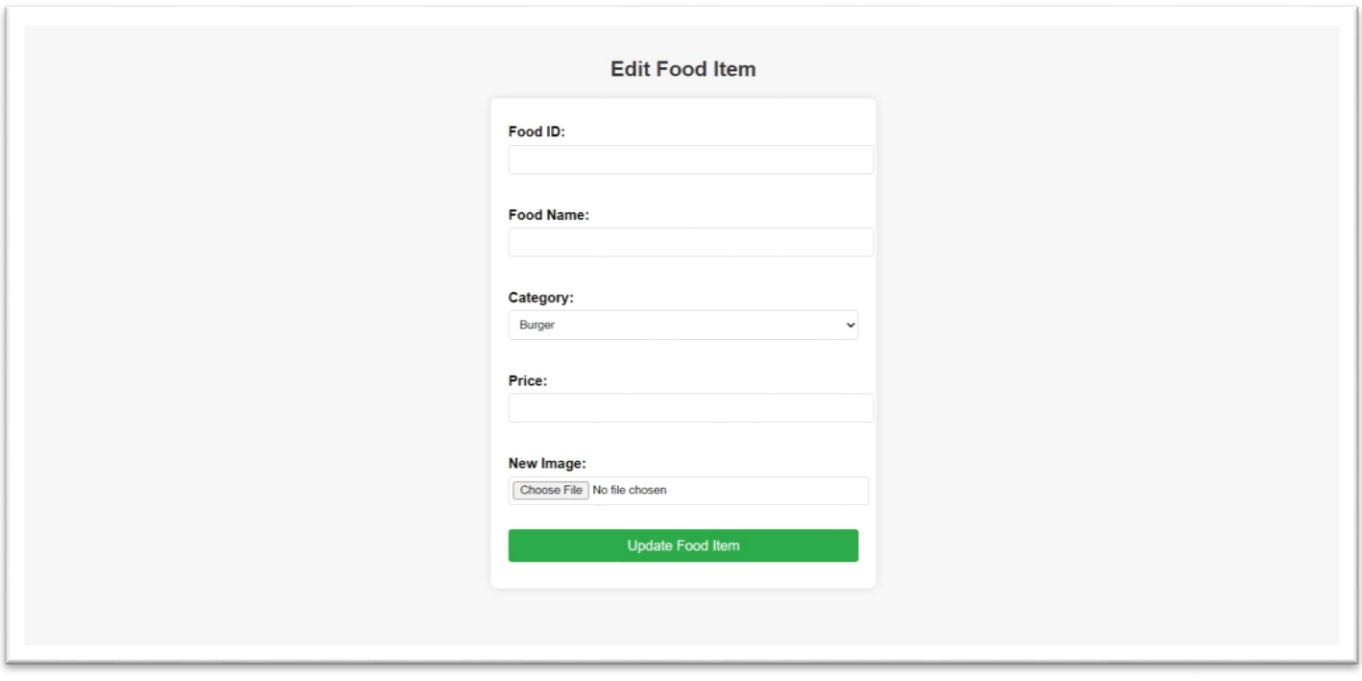
- Registered Customers Page :



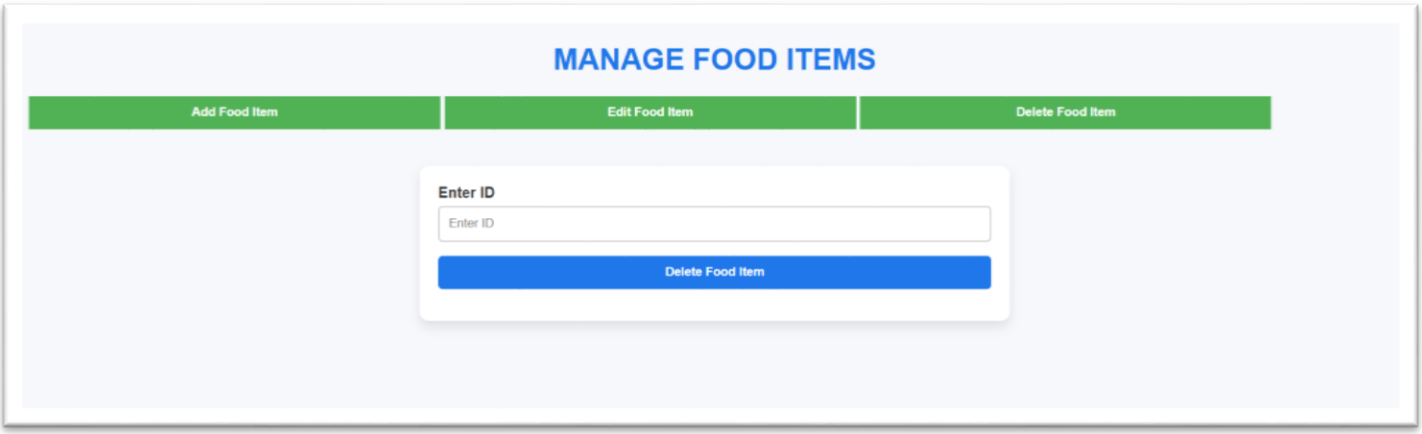
- **Manage Food Item Page :**
  - ⇨ Add Food Item :



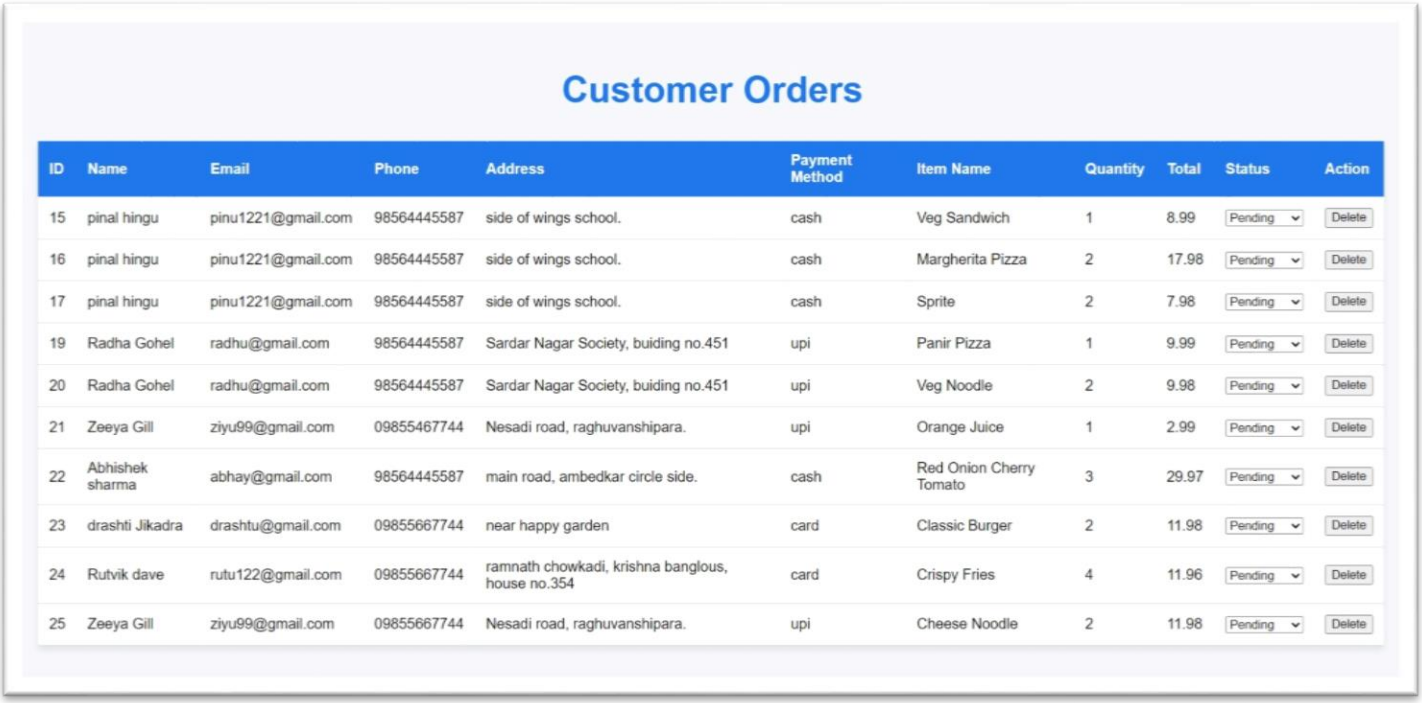
  - ⇨ Edit Food Item :



⇨ Delete Food Item :

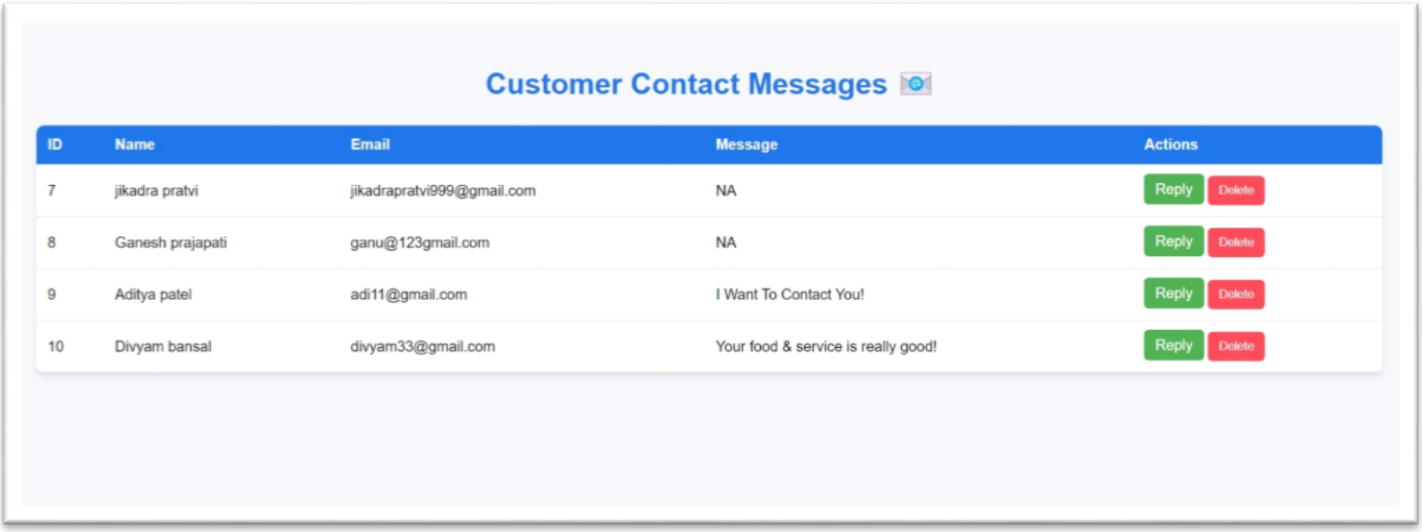


➢ View Orders Page :



ID	Name	Email	Phone	Address	Payment Method	Item Name	Quantity	Total	Status	Action
15	pinal hingu	pinu1221@gmail.com	98564445587	side of wings school.	cash	Veg Sandwich	1	8.99	Pending	Delete
16	pinal hingu	pinu1221@gmail.com	98564445587	side of wings school.	cash	Margherita Pizza	2	17.98	Pending	Delete
17	pinal hingu	pinu1221@gmail.com	98564445587	side of wings school.	cash	Sprite	2	7.98	Pending	Delete
19	Radha Gohel	radhu@gmail.com	98564445587	Sardar Nagar Society, buiding no.451	upi	Panir Pizza	1	9.99	Pending	Delete
20	Radha Gohel	radhu@gmail.com	98564445587	Sardar Nagar Society, buiding no.451	upi	Veg Noodle	2	9.98	Pending	Delete
21	Zeeya Gill	ziyu99@gmail.com	09855467744	Nesadi road, raghuvanshipara.	upi	Orange Juice	1	2.99	Pending	Delete
22	Abhishek sharma	abhay@gmail.com	98564445587	main road, ambedkar circle side.	cash	Red Onion Cherry Tomato	3	29.97	Pending	Delete
23	drashti Jikadra	drashtu@gmail.com	09855667744	near happy garden	card	Classic Burger	2	11.98	Pending	Delete
24	Rutvik dave	rutu122@gmail.com	09855667744	ramnath chowkadi, krishna banglous, house no.354	card	Crispy Fries	4	11.96	Pending	Delete
25	Zeeya Gill	ziyu99@gmail.com	09855667744	Nesadi road, raghuvanshipara.	upi	Cheese Noodle	2	11.98	Pending	Delete

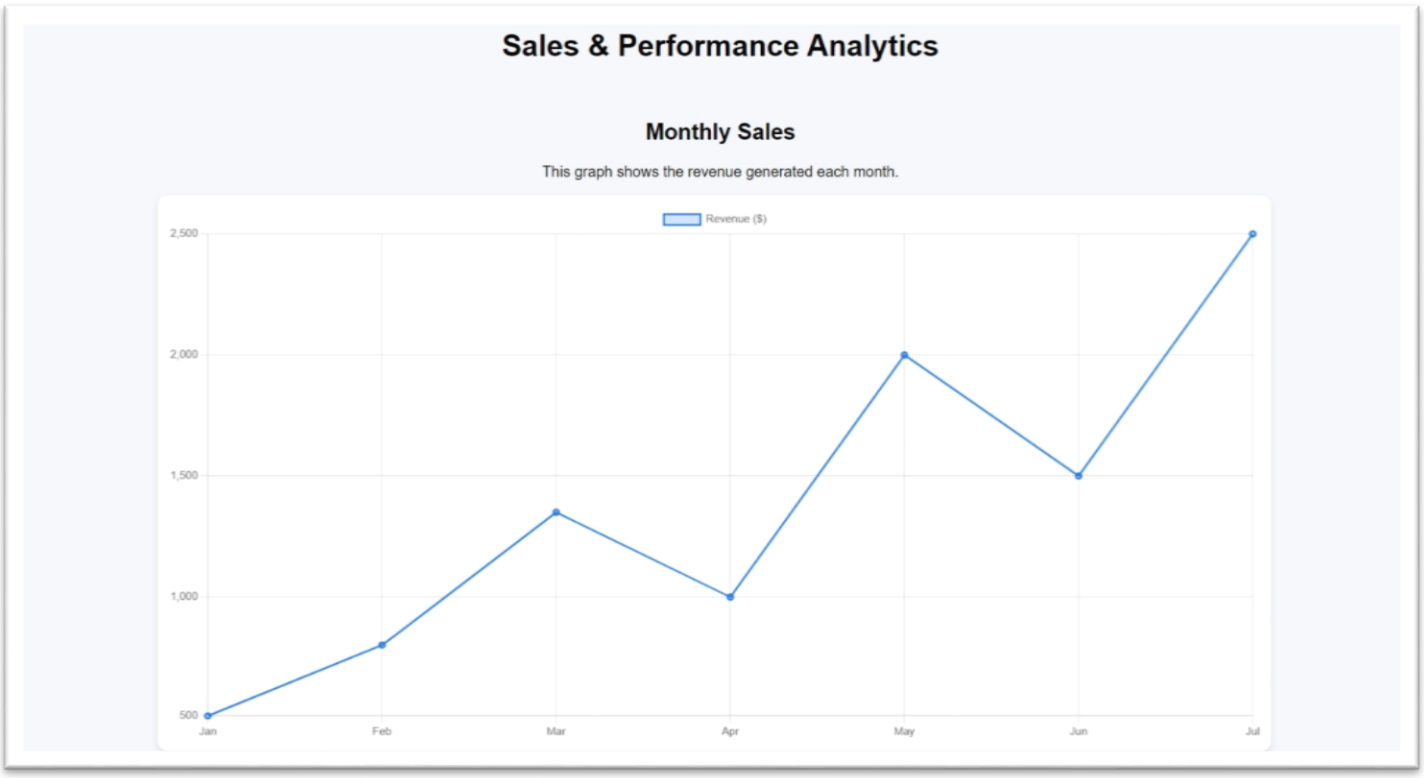
➢ Customer Contacts Page :



ID	Name	Email	Message	Actions
7	jikadra pratvi	jikadrapratvi999@gmail.com	NA	Reply Delete
8	Ganesh prajapati	ganu@123gmail.com	NA	Reply Delete
9	Aditya patel	adi11@gmail.com	I Want To Contact You!	Reply Delete
10	Divyam bansal	divyam33@gmail.com	Your food & service is really good!	Reply Delete

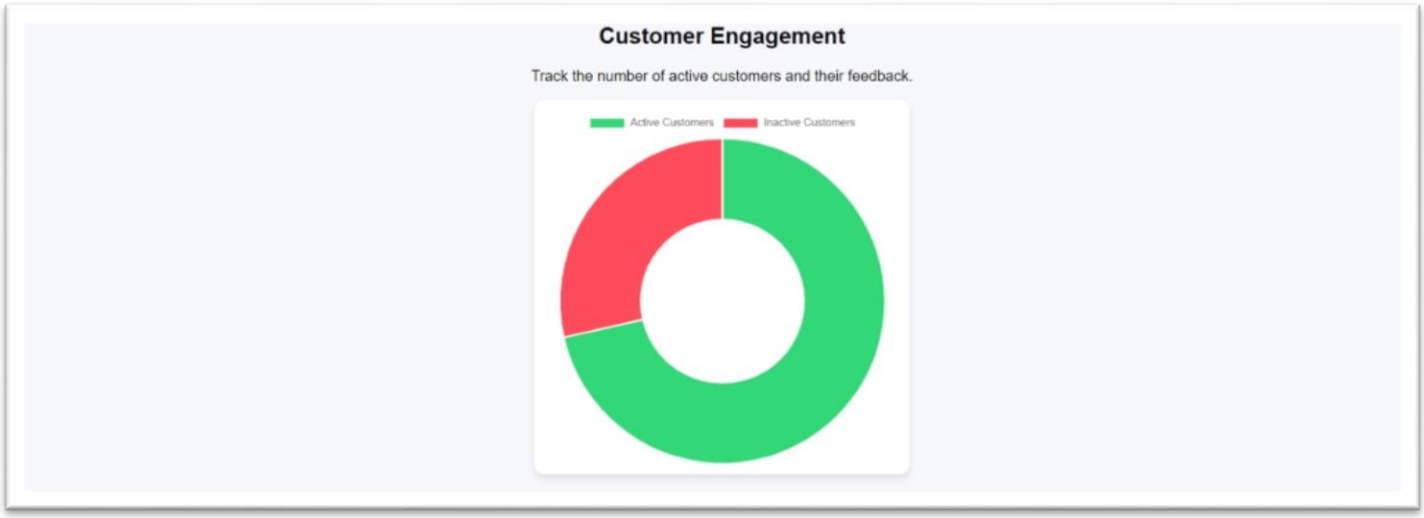
➢ Analytics Page :

⇨ Monthly Sales :

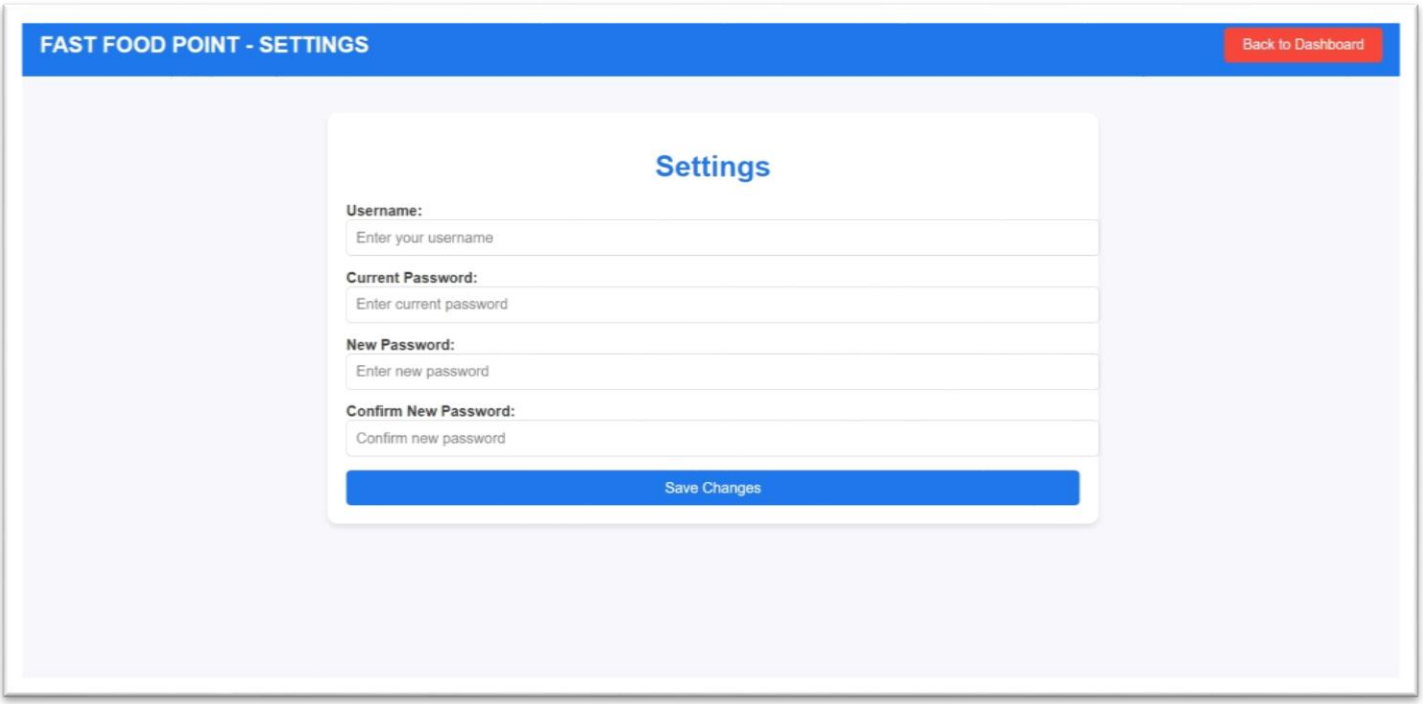


⇨ Top Selling Items :

⇨ Customer Engagement :



➢ Admin Settings Page :



CONTACT US INFO

Name : - **Pratvi Jikadra**

Name of project : - Fast Food Point

Purpose : - In this project, users can explore our Fast Food Point to view the menu, place orders, and get details about our food offerings. They can also send their orders and inquiries through the website.

Abstract : - This web site describes the Many Different Pictures. This site has the Collection of the Fast Food Items.

Technology : - Java, Microsoft access database, glassfish server

PROJECT SCHEDULE

Project scheduling consists of identifying the tasks needed to complete the project, determine the dependency among different task, plan the starting and ending dates for various tasks and determine the chain of tasks that determine the duration of the project. In Project scheduling I decided the order in which to do the tasks, which I have described in work break down structure.

Process	Date					
	03-12-25 to 10-12-25	11-12-25 to 20-12-25	21-12-25 to 01-01-25	02-01-25 to 17-01-25	18-01-25 to 24-02--25	25-02-25 to 02-03-25
Deciding Definition						
Analysis						
Design						
Coding & Testing						
Documentation						
Deployment						

BIBLIOGRAPHY

During the development of this project, various resources were referred to for research, design, and implementation. The following sources provided valuable guidance and knowledge:

1. **Books & Study Materials:**
   - Web Development with HTML, CSS, and JavaScript – Jon Duckett
   - Java: The Complete Reference – Herbert Schildt
   - Database Management Systems – Raghu Ramakrishnan

2. **Online Resources:**
   - W3Schools (www.w3schools.com) – For HTML, CSS, and JavaScript references
   - GeeksforGeeks (www.geeksforgeeks.org) – For Java, JSP, and database concepts
   - Oracle Documentation (docs.oracle.com) – For Java EE and GlassFish Server

3. **Software & Tools Used:**
   - NetBeans IDE – For developing and running the application
   - GlassFish Server – For deploying the web application
   - Access Database – For storing user and order details

4. **Other References:**
   - Various online tutorials, research articles, and forums such as Stack Overflow for debugging and troubleshooting issues.


THANK
YOU