SHIVAJI UNIVERSITY, KOLHAPUR

A

PROJECT REPORT ENTITLED

Online Food Ordering System

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

BACHELOR OF COMPUTER APPLICATION

SUBMITTED BY,

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THROUGH

THE PRINCIPAL,

DATTAJIRAO KADAM ARTS, SCIENCE AND COMMERCE COLLEGE, ICHALKARANJI

MAR-2025

"ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार"

- शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha's

Dattajirao Kadam

Arts, Science and Commerce College, Ichalkaranji

DEPARTMENT OF COMPUTER APPLICATION

CERTIFICATE

This is to certify that the project report entitled **"Online Food Ordering System"** is record of the project work, carried out in this college by **Mr. Aditya M. Ajagekar , Miss Vaishnavi C. Hande** in the partial fulfillment of **"Bachelor of Computer Application"** as laid down by **Shivaji University, Kolhapur**.

Place : Ichalkaranji.

Date : / / 2025

(Mr. A. M. Patil)
Project Guide

(Mr. C. A. Patil)

(Dr. S. M. Maner)

Examiner

1) _____ **2)** _____

Declaration

To,
The Registrar,
Shivaji University,
Kolhapur.

Sir,

We undersigned hereby declare that the project report entitled "Online Food Ordering System" submitted by us under the guidance of Mr. A. M. Patil in our original work. The empirical findings in this report are based on information collected by us. We have not copied from any report submitted to Shivaji University, Kolhapur.

We undersigned that any such coping is liable to the punishment in a way that University Authorities deem fit.

Place: Ichalkaranji
Date: / / 2025

Mr. Aditya M. Ajagekar. **Miss. Vaishnavi C. Hande.**

Acknowledgement

As we have developed our project on "Online Food Ordering System ". We have been fortunate to receive assistance, suggestion and support from numerous friends and faculty.

First and foremost our thanks go to our guide respected. We express our willing of immense gratitude for their guidance and kind help.

We take this opportunity to thanks all the teaching and non-teaching staff members and our friends who were of great help in the process of completion of this project.

We also sincere mark to staff in the computer laboratory for their kind co-operation and encouragement let us to complete work in the time.

Place: Ichalkaranji
Date: / / 2025

Mr. Aditya M. Ajagekar. **Miss. Vaishnavi C. Hande.**

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Introduction to Project

Introduction

The **Online Food Order System** is a **web-based application** developed to simplify and automate the process of ordering food from restaurants. This system allows users to conveniently browse food menus, place orders, and choose between online payment or cash on delivery, all from the comfort of their home.

The main objective of this project is to provide a **user-friendly platform** that connects customers with their favorite restaurants and ensures a quick, efficient, and contactless ordering experience. It eliminates the need to visit a restaurant physically or make phone calls to place an order.

This application is developed using **ASP.NET with C#** for the backend, and it utilizes a **SQL Server** database to store all relevant data securely. The system ensures real-time updates, smooth navigation, and reliable performance.

The project is divided into two main modules:

- **Admin Module**: The admin can manage food categories, add or remove items, view customer orders, and handle system settings.
- **User Module (Customer)**: Customers can register or log in, browse the food menu, place orders, and track their order history. They can choose between **online payment** and **cash on delivery**.

The Online Food Order System provides an efficient digital solution for food delivery services, enhances customer satisfaction, and supports future scalability for adding more features like restaurant partnerships, customer feedback, and mobile app integration.

Existing System

- The current system is totally manual.
- Maintain all data records in on paper.
- Due to manually process, it requires more time for completion of any work.
- Lots of time consumed to the requires is difficult and time consuming.
- Manual system is takes more time to compete any task.
- This system require more human resource to run the system.
- Require infrastructure to operate the system
- People need to come at shop for order food.
- View past reports task is very tedious.

Need and Scope

In the traditional way of ordering food, people had to visit restaurants or call to place their orders. This takes a lot of time and can lead to mistakes in taking orders. As more people prefer fast and easy services, the old methods are not enough. So, there is a need for an online system that:

- Saves time and reduces mistakes while taking orders.
- Makes the ordering process faster and more accurate.
- Keeps all order and customer data safe and in one place.
- Lets customers quickly see the menu and their order status.
- Creates instant records for managing and tracking orders.

An Online Food Ordering System helps restaurants work better and gives customers a smooth and easy ordering experience.

Scope of the System

The Online Food Ordering System is made for restaurants and food businesses to manage orders through a website or app. The scope of this project includes:

- Managing food items, prices, and menu categories.
- Simple and quick order placement with an add-to-cart feature.
- Easy-to-use interface for customers and admin users.
- Search option to quickly find food items.
- Can be improved in the future by adding features like online payment, delivery tracking, and mobile app support.

This system can grow with more features later, making it a useful and flexible solution for modern food businesses.

Proposed System

Proposed System

Objective

The main objective of the Online Food Order System is to design and develop a web-based application that enables users to order food online in a fast, convenient, and efficient manner. The system aims to improve customer experience, streamline restaurant operations, and reduce manual tasks involved in food ordering and delivery processes.

Key Objectives:

1. To develop a user-friendly online platform for browsing food items and placing orders easily.
2. To allow customers to choose from multiple food categories and customize their orders.
3. To provide secure and flexible payment options including online payment and cash on delivery.
4. To enable administrators to manage food items, categories, orders, and customer data efficiently.
5. To reduce order processing time and eliminate manual errors through automation.
6. To offer real-time order tracking and confirmation for users.
7. To ensure secure login and role-based access control for both admins and users.

This project not only simplifies the food ordering process but also sets the groundwork for future improvements such as mobile app integration, live delivery tracking, restaurant reviews, and loyalty rewards for regular customers.

Software Requirement Specifications

The Software Requirement Specification (SRS) defines the functional and non-functional requirements of the Online Food Order System. It acts as a guide for the development and implementation of the system. This system allows users to order food online easily and helps the admin manage food items, categories, and orders efficiently.

Functional Requirements -

- User Registration & Login:
  Users can register, log in, and manage their profiles.
- Browse Food Menu:
  Users can browse food items by categories like Chinese,South Indian, Italian, etc.
- Place Order:
  Users can select food items, add them to a cart, and place an order.
- Payment Options:
  Users can choose between online payment and Cash on Delivery (COD).
- Order History:
  Users can view their past orders and order statuses.
- Admin Login:
  Admin can log in securely with access control.
- Food Management (Admin):
  Admin can add, update, or delete food items and categories.
- Order Management (Admin):
  Admin can view all orders placed by users and update order status.

Non-Functional Requirements -

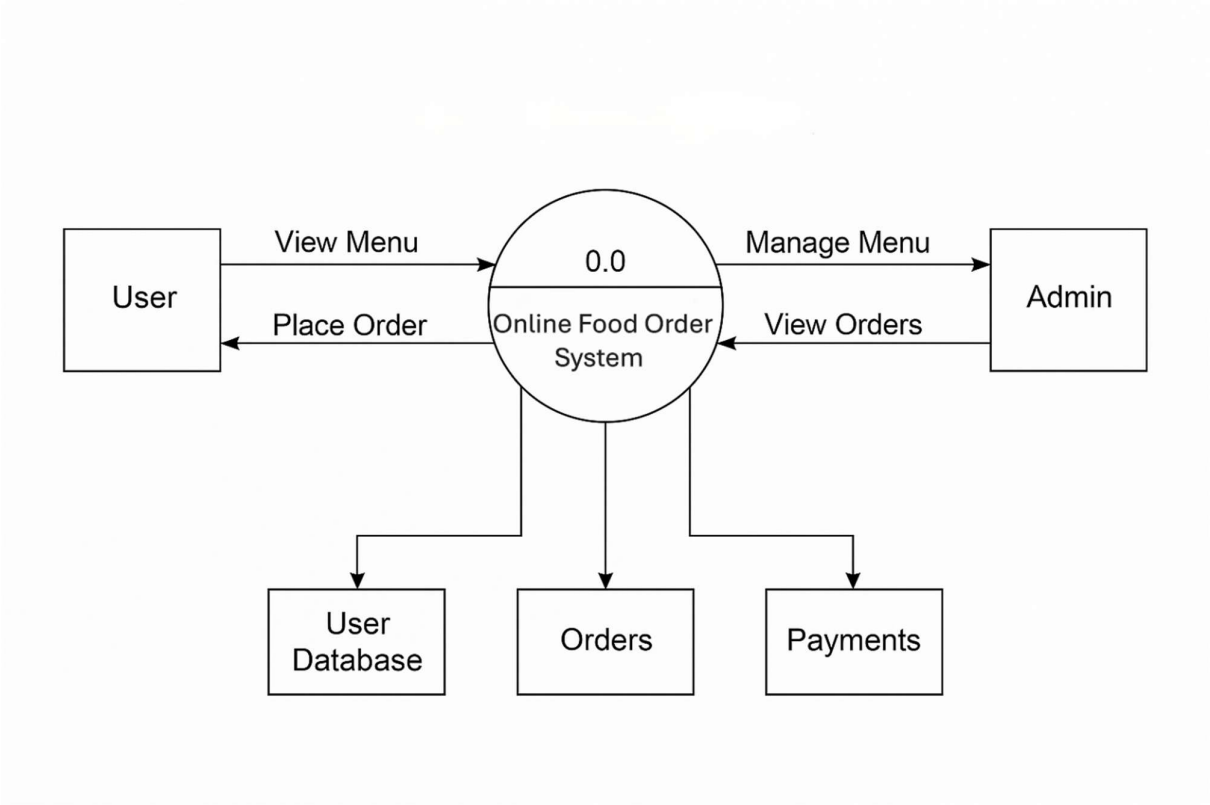
- Usability:
  The interface should be user-friendly and responsive.
- Performance:
  The system should handle multiple users placing orders simultaneously.
- Security:
  All sensitive data like passwords and payment details must be securely stored.
- Scalability:
  The system should support the future addition of more features like restaurant ratings, coupons, etc.
- Reliability:
  The system should be highly reliable and available during business hours.

System Diagrams

System Diagrams

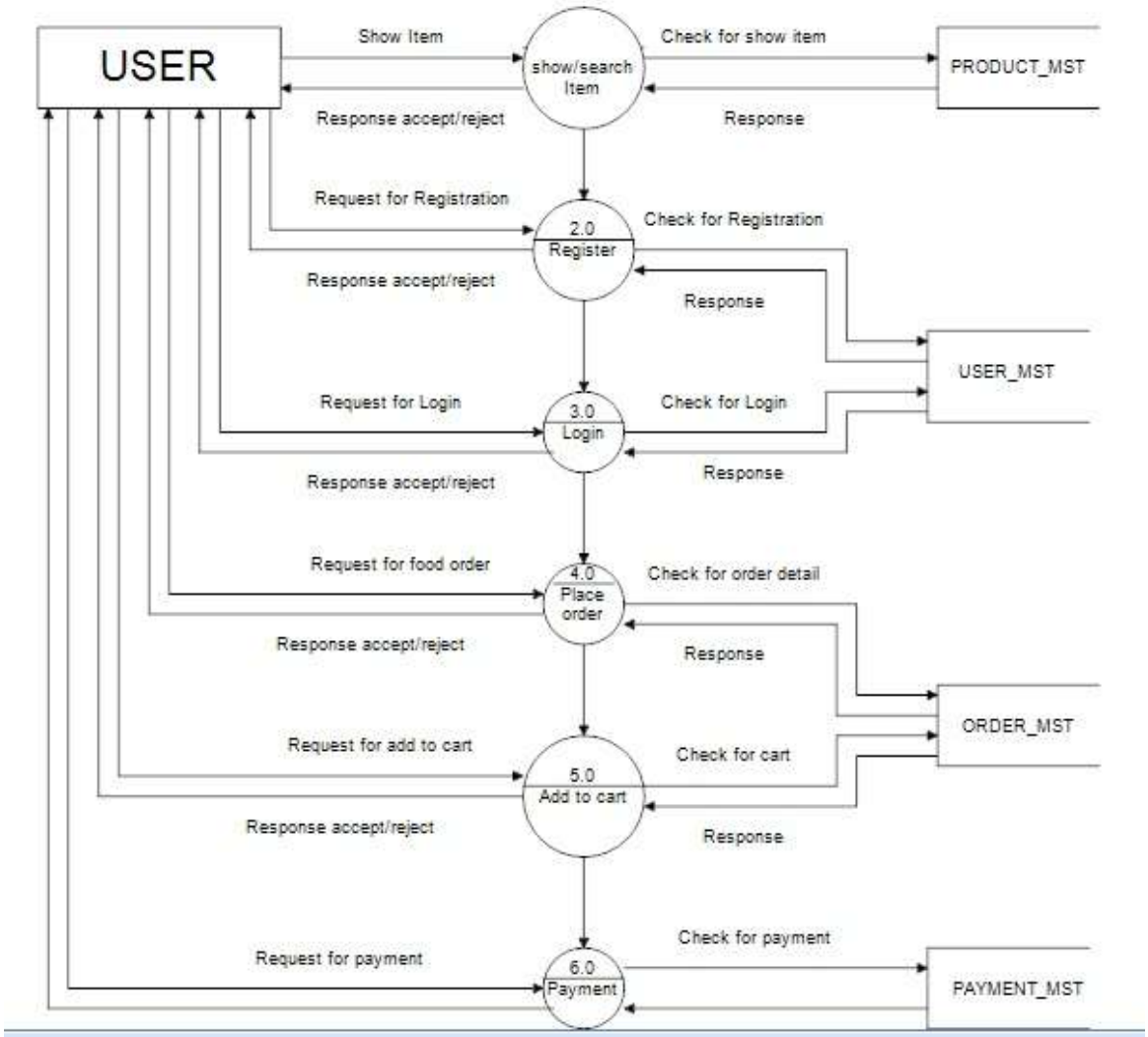
1) DFD

- **Context level DFD for Online food system**



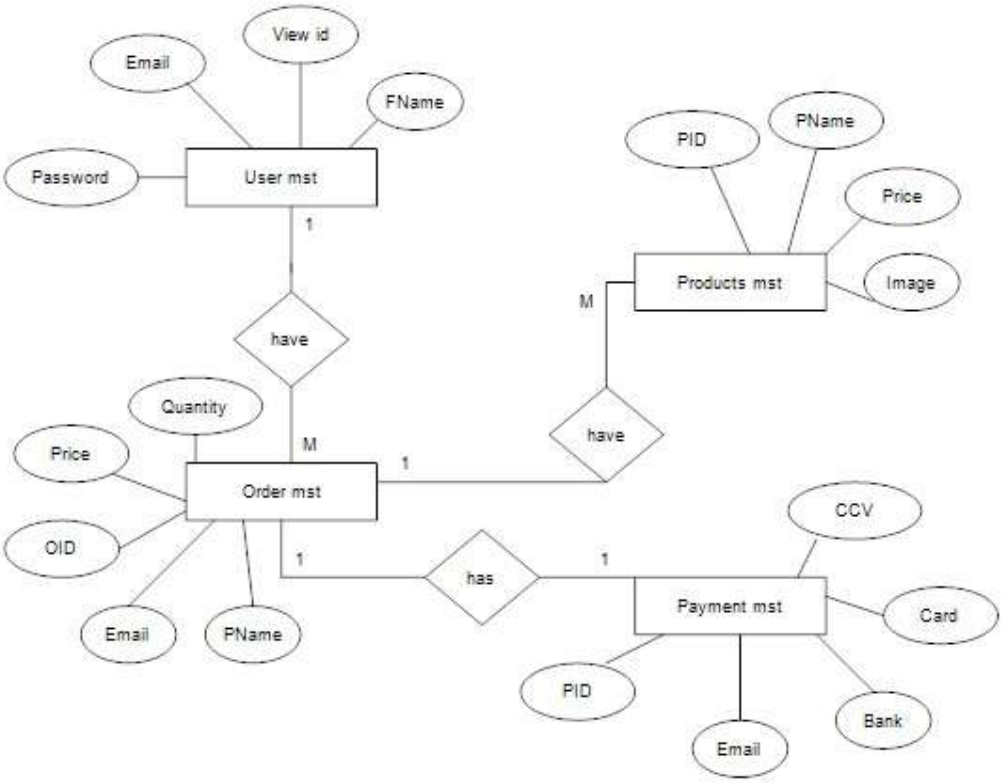
Diagrams

- **First Level DFD:**



2) ERD

- **E-R Diagram for Online Food System**



System Requirements

System Requirement

HARDWARE AND SOFTWARE ARE SPECIFICATIONS

HARDWARE REQUIREMENTS

- PROCESSOR : Intel(R) Core(TM) i3-6100
- RAM : 4 GB
- HDD : 40 GB or HIGHER

SOFTWARE REQUIREMENTS

- OPERATING SYSTEM: MICROSOFT WINDOWS 11
- FRONT END:ASP.NET 2010
- BROWSER : GOOGLE CHROME
- DATABASE: SQL-SERVER 2008 DATAB

System Design

System Design

1) Database Tables

1. **dbo.OrderMst**

Field Name	Datatype
OID	int
Email	Varchar(50)
PName	Text
Price	int
Qnt	int
TotalPrice	int
Image	
Status	int
Edate	date

2. **dbo.PaymentMst**

Field Name	Datatype
PID	int
Email	Varchar(50)
Type	Text
BankName	Text
CardNo	int
CCV	int
Amount	int
Edate	date

3. **dbo.ProductMst**

Field Name	**Datatype**
PID	int
PName	Text
Detail	Text
Price	int
Image	
CName	Text
Status	int
Edate	date

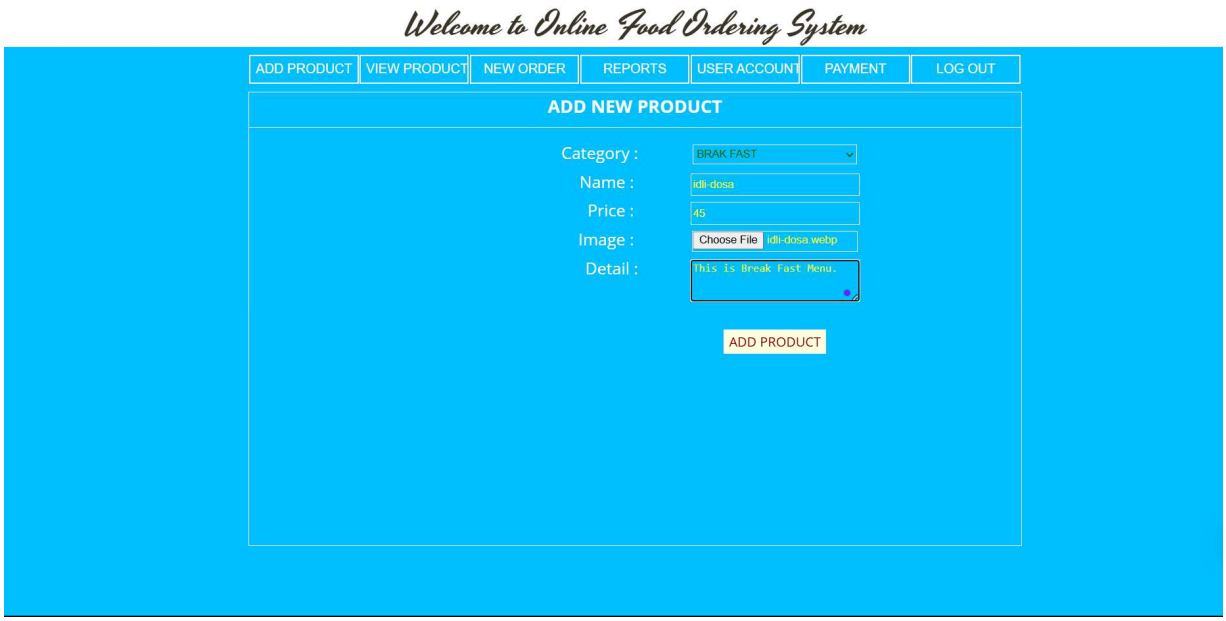
4. **dbo.UserMst**

Field Name	**Datatype**
UID	int
FName	text
LName	text
Mobile	int
Gender	text
Address	text
City	text
Pincode	int
Email	nvarchar(50)
Password	nvarchar(50)
Edate	date

Input / Output Design

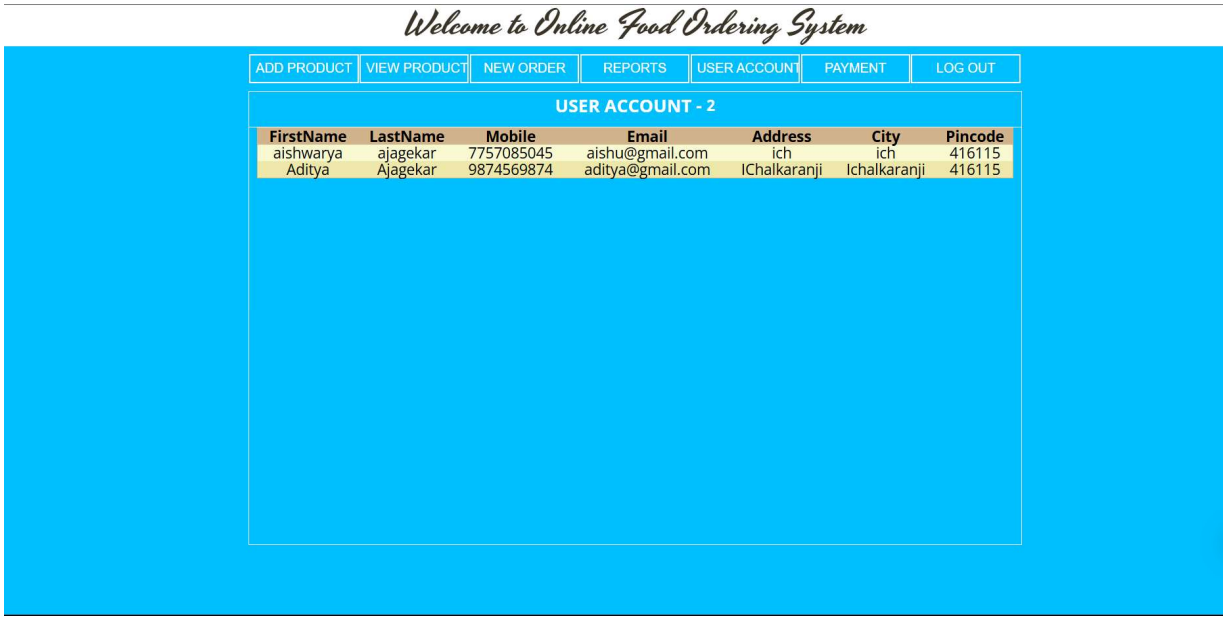
Admin Login

Add new product

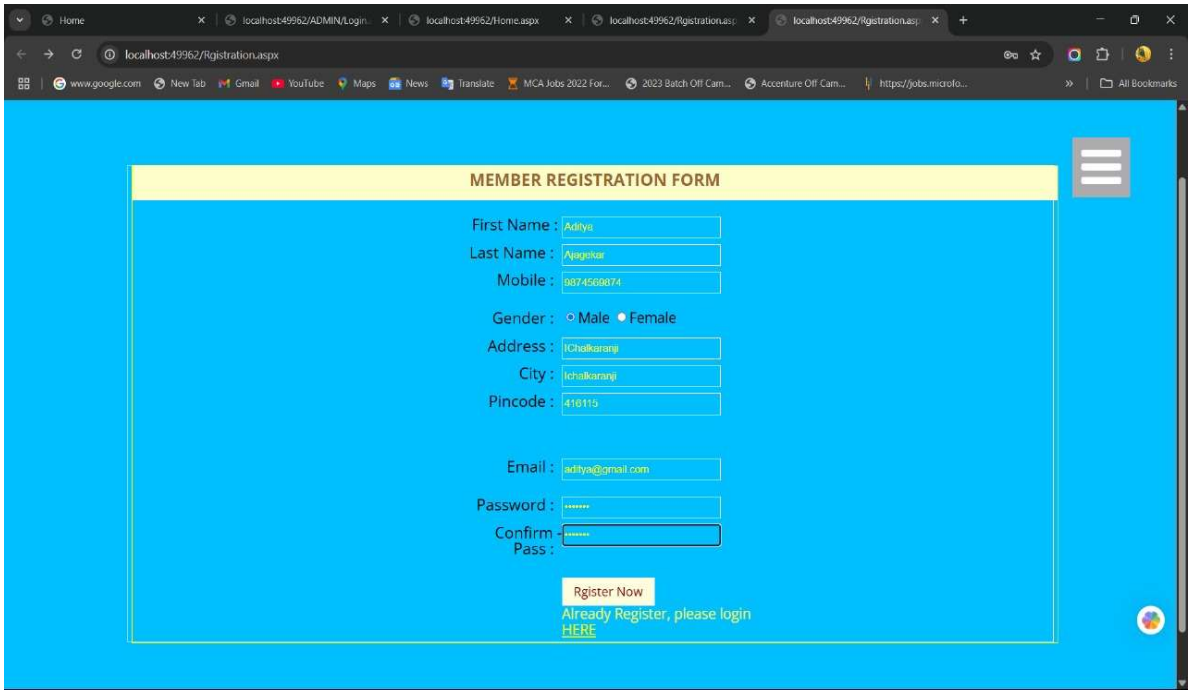


View Product

View user account

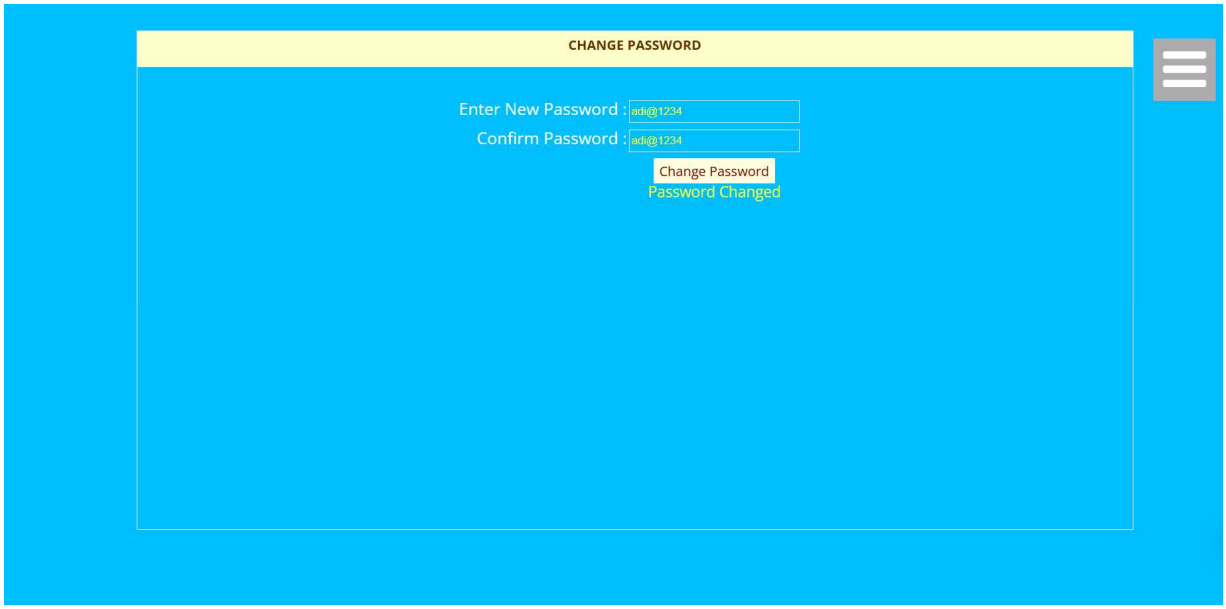


Registration

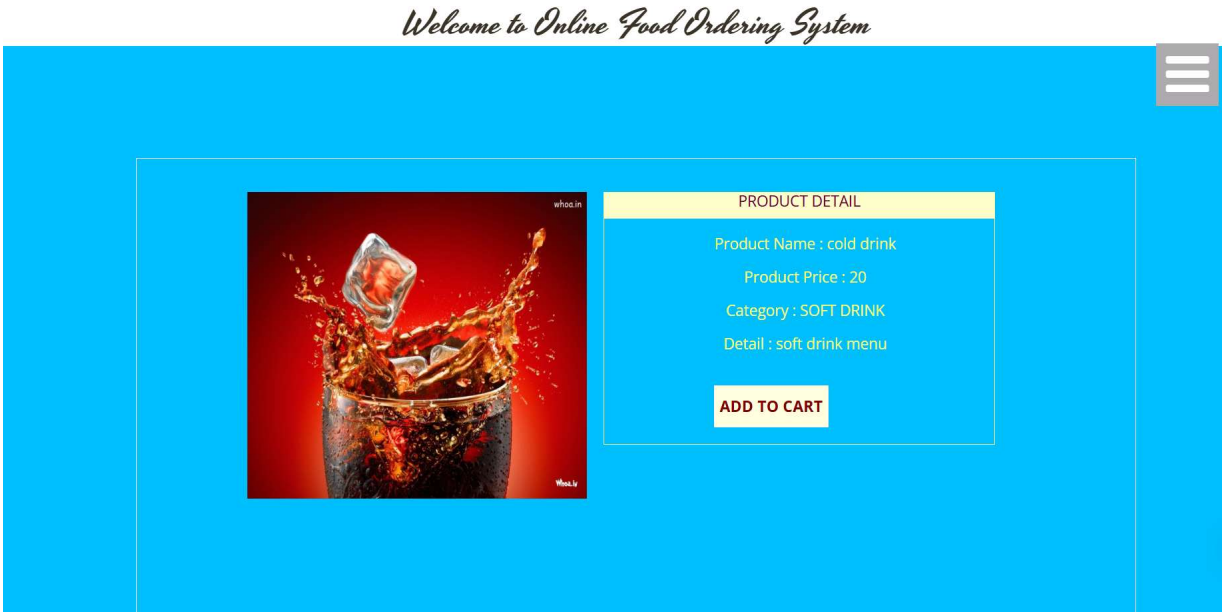


Login

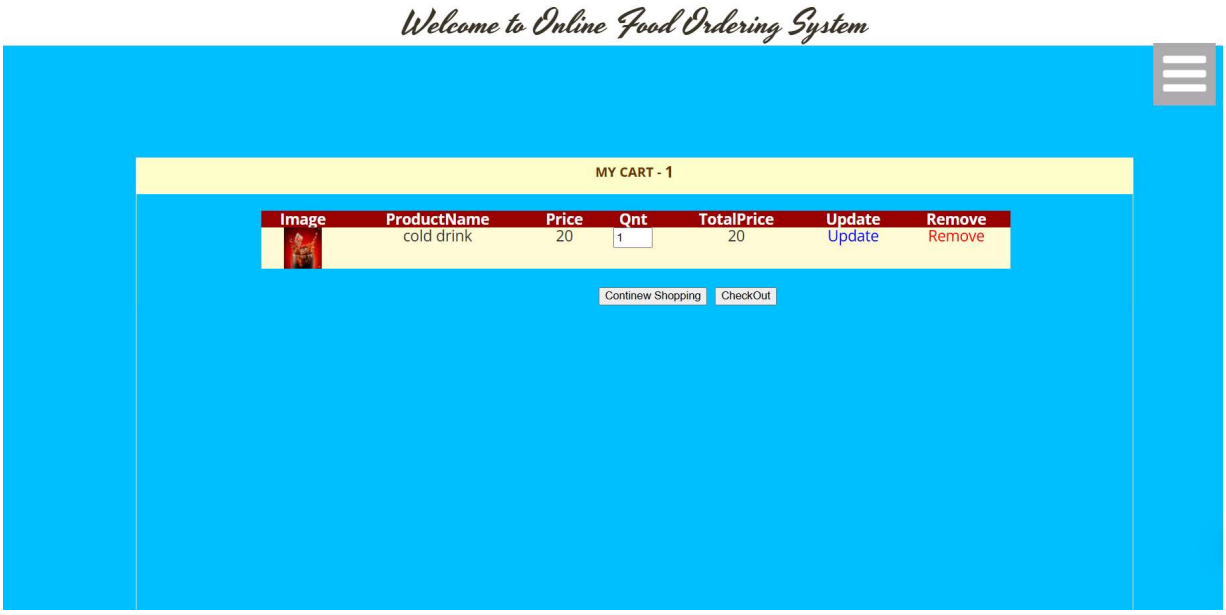
Change password

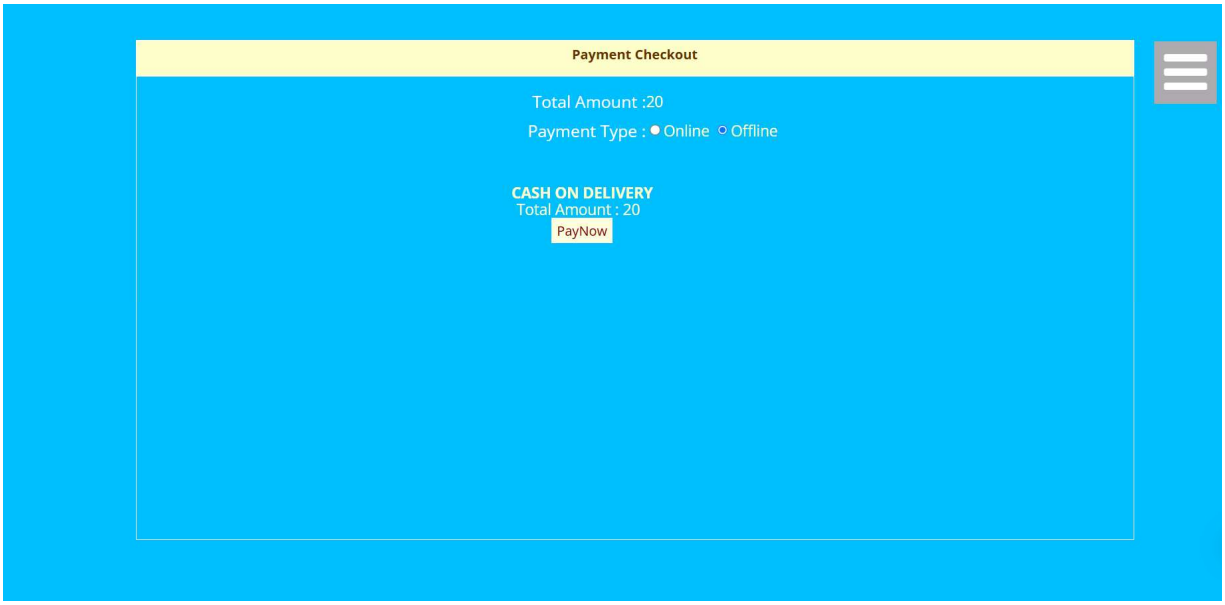


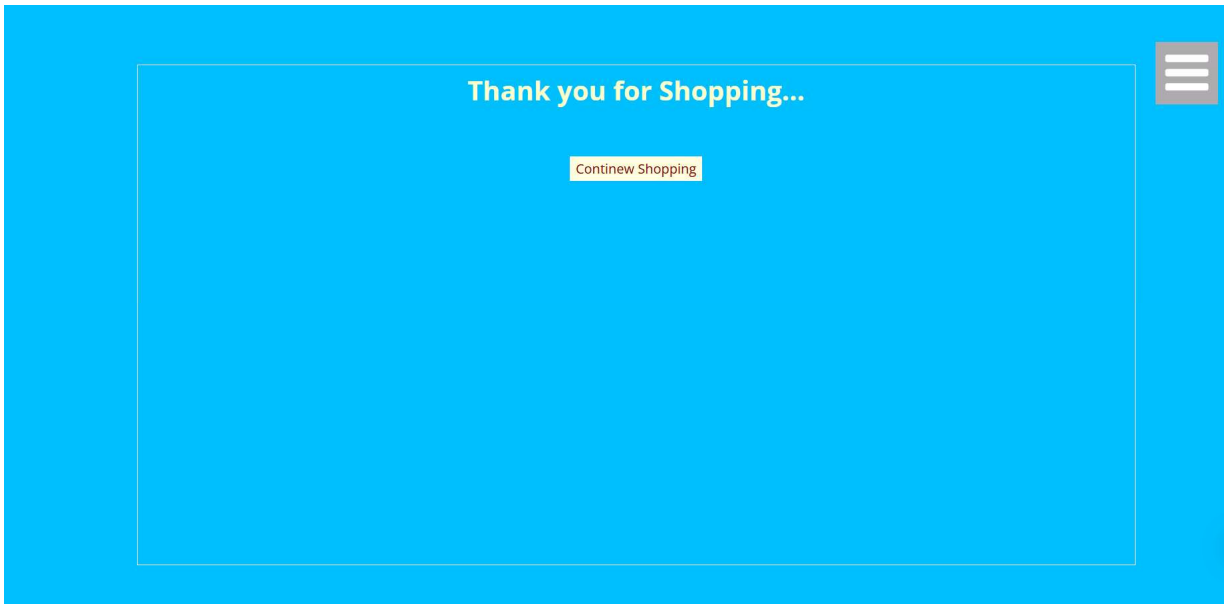
Product detail



My cart




Payment Checkout
Total Amount :20
Payment Type : Online Offline
CASH ON DELIVERY
Total Amount : 20
PayNow


Thank you for Shopping...
Continew Shopping

Reports

User Report

User Report

04/05/2025 3:15 PM

UID	Fname	Lname	Mobile	Gender	Address	City	Pincode
1	aishwarya	ajagekar	7757085045	Female	ich	ich	416115
2	Aditya	Ajagekar	9874569874	Male	IChalkaranji	Ichalkaranji	416115
3	Avinash	Ajagekar	8989898989	Male	Ich	Ich	145632
4	aishwarya	Ajagekar	8989895689	Female	IChalkaranji	ichalkaranji	416115
5	shiva	patil	7896541230	Male	pune	pune	415263
6	Ankita	Ambi	8963258965	Female	sangli	sangli	145632

Product Report

Product Report

04/05/2025 3:20 PM

	PID	PName	Detail	Price	Image	Cname
1	3	idli-dosa	idli-dosa menu	45	~/product/page-1_img05.jpg	BRAK FAST
2	4	Thali	Gujrati Thali	130	~/product/page-1_img03.jpg	GUJARATI
3	5	nuddles	Italian food	60	~/product/page-1_img11.jpg	ITALIAN
4	6	Strawberry flavour	strawberry flavour icecream	50	~/product/slide021.jpg	ICE CREAM
5	7	cold drink	soft drink menu	20	~/product/page-1_img08.jpg	SOFT DRINK
6	8	veg-mancurian	chainees menu	90	~/product/veg-mancurian.jpg	CHINEES
7	9	thali	kathiyawadi menu	150	~/product/page-1_img07.jpg	KATHIYAWADI
8	10	medu wada	This is south indian	50	~/product/medu wada.jpeg	SOUTH INDIAN
9	11	punjabi paratha	This is panjabi paratha	140	~/product/paratha.jpeg	PUNJABI
10	12	fanta	soft drink	20	~/product/fanta.jpeg	SOFT DRINK
11	13	chocobar	icecream flavor	45	~/product/chocobar.jpeg	ICE CREAM
12	14	vanilla	icecream flavor	35	~/product/vanilla.jpeg	ICE CREAM
13	15	mix - icecream	icecream flavor	40	~/product/mix-icecream.jpeg	ICE CREAM

Order Report

Order Report

04/05/2025 3:23 PM

	OID	Email	PName	Price	Qnt	TotalPrice	Image
1	1	aishu@gmail.com	asbc	100	1	100	~/product/fooddfd0.jpg
2	2	aditya@gmail.com	nuddles	60	1	60	~/product/page-1_img11.jpg
3	3	aditya@gmail.com	cold drink	20	1	20	~/product/page-1_img08.jpg
4	4	avi@gmail.com	Strawberry flavour	50	1	50	~/product/slide021.jpg
5	5	avi@gmail.com	fanta	20	1	20	~/product/fanta.jpeg
6	6	ankita@gmail.com	chocobar	45	1	45	~/product/chocobar.jpeg

Payment Report

Payment Report

04/05/2025 3:30 PM

	PID	Email	Type	BankName	CardNo	CCV	Amount
1	1	aishu@gmail.com	Offline	-	-	0	100
2	2	aditya@gmail.com	Offline	-	-	0	60
3	3	aditya@gmail.com	Offline	-	-	0	20
4	4	avi@gmail.com	Offline	-	-	0	50
5	5	avi@gmail.com	Offline	-	-	0	20

User Guidelines

User Guidelines

a) Installation Process :

Step 1: Open the Project in Visual Studio

- Open Visual Studio.
- Go to File > Open > Project/Solution.
- Navigate to the project folder and open the .sln (solution) file.

Step 2: Configure the Database Connection

- Open the Web.config file.
- Find the <connectionStrings> section and update it as needed:
- If a database script (.sql file) is provided:
- Open SQL Server Management Studio (SSMS).
- Create a new database.
- Execute the SQL script to create necessary tables and seed data.
- **Step 3**: Build the Project
- Go to Build > Build Solution or press Ctrl + Shift + B.
- Ensure there are no build errors.
- **Step 4**: Run the Project
- Press F5 or click the Start button in Visual Studio.
- The application will launch in your default web browser.

Future Scope & Future Enhancement

Future Scope & Future Enhancement

Future Scope

The Online Food Ordering System is an important step toward making restaurant services more digital. As technology keeps improving, there are many ways this system can grow and become even more useful. Right now, it handles basic online food orders well, but in the future, it can be upgraded for bigger use.

One major improvement is turning it into a multi-restaurant platform, where many restaurants can be listed—just like Zomato or Swiggy. It can also include a mobile app, so more users can access it easily from their phones.

For business growth, the system can connect with other tools like SMS services, online payments, tax systems, and data analytics. This would help restaurant owners run their business more smoothly and professionally.

As more people prefer online food ordering, the need for fast, easy, and secure platforms will keep increasing. So, this system has a lot of potential to be used in real life, expand further, and even become a commercial product.

Future Enhancement

To make the Online Food Ordering System more efficient, feature-rich, and competitive, several enhancements can be made in the future. These enhancements will help to improve the user experience, increase functionality, and expand the scope of the application.

- Online Payment Integration
- Mobile App Development
- Real-Time Order Tracking
- Admin Dashboard with Analytics
- Chatbot or Live Support Integration
- Multi-Language Support
- Feedback and Rating System
- Coupons and Discounts Management
- Email and SMS Notifications

Conclusion

Conclusion

The **Online Food Ordering System** developed using ASP.NET successfully meets the objective of streamlining the food ordering process for both customers and restaurant management. It offers a convenient platform where users can browse menus, place orders, and make payments with ease, while administrators can efficiently manage food items, orders, and customer data.

By eliminating the need for manual order-taking and reducing human errors, the system enhances customer satisfaction and improves overall operational efficiency. The project is scalable and can be further enhanced with features like real-time delivery tracking, mobile app integration, and advanced analytics.

Overall, this system demonstrates the practical application of ASP.NET and database technologies in building real-world web applications that solve everyday problems.

Benefits :

The project is identified by the merits of the system offered to the user. The merits of this project are as follows :-

1. It's a web-enabled project.
2. This project offers user to enter the data through simple and interactive forms. This is very helpful for the client to enter the desired information through so much simplicity.
3. The user is mainly more concerned about the validity of the data, whatever he is entering. There are check on every stages of any new creation, data entry on updation so that the user cannot enter the invalid data, which can create problems at later date.
4. User is provided the option of monitoring the records he entered earlier. He can see the desired records with the variety of options provided by him

Limitations

Limitations

1. The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.

2. Training for simple computer operations is necessary for the users working on the system

Bibliography

Bibliography

Suggestions:-

- **Improve UI Design:** Use modern frameworks like Bootstrap to make the interface more attractive and mobile-friendly.
- **Add Payment Integration:** Include online payment methods such as UPI, cards, and wallets for customer convenience.
- **Develop a Mobile App:** Create an Android/iOS version for better accessibility and wider usage.
- **Implement Order Tracking:** Allow users to track the real-time status of their orders.

Websites:-

1. www.youtube.com
2. www.Google.com