

# **FOOD BOX EXPRESS**

## **A PROJECT REPORT**

Submitted by

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In partial fulfilment for the award of the degree

Of

**POSTGRADUATE DIPLOMA**

IN

**CENTRE FOR DEVELOPMENT OF ADVANCED  
COMPUTING (C-DAC)**

**Year: 2023**



**C-DAC NOIDA**

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## **ABSTRACT**

The rapid advancement of technology has revolutionized the way we access and interact with various services, including the food industry. Online food delivery systems have emerged as a convenient and efficient solution to meet the ever-growing demand for food delivery services. This abstract provides an overview of the key components and features of an online food delivery system.

An online food delivery system is a digital platform that connects customers with a variety of restaurants and enables them to place food orders for delivery or takeout. The system typically consists of three main components: the customer-facing application, the restaurant dashboard, and the delivery personnel interface. Customers can browse through a diverse range of restaurants, view menus, select dishes, customize orders, and make secure payments through the user-friendly mobile or web application.

Restaurant, on the other hand, are equipped with a dashboard that allows them to manage their digital menu, update item availability, and track orders in real-time, and communicate with customers. The integration of a robust order management system ensures a seamless flow of information, reducing errors and improving overall efficiency. Additionally, restaurants receive online payments, reducing the dependence on cash transaction.

In conclusion, online food delivery systems have redefined the way food services operate, offering customers a convenient way to access a wide range of culinary options. This abstract highlights the core elements of such a system, showcasing its benefits for customers, restaurants, and delivery personnel, while acknowledging the complexities that must be addressed for a successful implementation.

# 1.INTRODUCTION

The advent of the digital age has ushered in transformative changes across various industries, and the food sector is no exception. Online food delivery has emerged as a game-changing concept that has revolutionized the way people order and enjoy meals. This innovative approach leverages the power of technology and connectivity to bridge the gap between consumers and restaurant, offering unparalleled convenience and a diverse culinary experience.

Online food delivery presents a dual advantage. It extends their reach beyond physical premises, allowing them to tap into a broader customer base and increase revenue. Moreover, it provides an avenue for smaller and newer eateries to compete on a level playing field with established brands, as the digital platform emphasizes the quality and uniqueness of their offerings rather than just their physical presence

This introduction sets the stage for delving deeper into the world of online food delivery, exploring its mechanics, benefits, challenges, and implications. As technology continues to evolve and consumer preferences shift, the online food delivery landscape is poised for further innovation, offering exciting opportunities for both businesses and customers.

This system focuses mainly on dealing with customer's food order lists as users can browse available food items and add them to the cart for checkout procedure. Also, the system displays both veg and non-veg restaurants with their menus on the client-side with their respective food images. In addition, the system lists out all the available store's descriptions with their opening hours.

This project is divided into two categories: Admin Panel and Client-side. In an overview of this website, the users need an account in order to place the order. Taking more about the project, the user can simply select food items, and order them. Under the customer's section, the system displays amount and allows the user to proceed towards checkout. For purchase checkout, customer can also change the delivery details too.

## **2.PROBLEM DEFINITIONS AND SCOPE**

The rise of online food delivery systems has brought about a transformative change in the food industry, offering convenience and choice to consumers like never before. However, this innovation is not without its share of challenges that stakeholders within the system must contend with. This problem definition outlines key challenges faced by various components of online food delivery systems.

### **2.1 Logistics and Timely Deliveries:-**

Ensuring timely and accurate deliveries is a paramount challenge. Coordinating orders from restaurant, optimizing routes, and managing unpredictable factors such as traffic can result in delays and dissatisfied customers.

### **2.2 Food Quality and Presentation:-**

Maintaining the quality and presentation of food during transit is a persistent challenge. Dishes can arrive cold, soggy, or mishandled, leading to a subpar dining experience and potential reputational damage to both restaurant and delivery platforms.

### **2.3 Order Accuracy and Customization:-**

Accurately capturing customer preferences and customizations for each order can be complex. Mistakes in orders, whether due to unclear instructions or technical glitches, can lead to customer dissatisfaction and increased operational costs.

### **2.4 Data Security and Privacy:-**

Online food delivery systems handle sensitive customer information, including payment details and personal data. Ensuring robust cybersecurity measures to protect against data breaches and unauthorized access is a significant challenge.

### **2.5 Customer Support and Communication:-**

Effective communication between customers, restaurant, and delivery personnel is crucial. Handling inquiries, addressing complaints, and providing real-time updates require a streamlined system for customer support.

### **2.6 Restaurant Relations and Integration:-**

Establishing and maintaining partnerships with a diverse range of restaurants involves challenges in integrating various menus, pricing structures, and technological capabilities into a unified platform.

### **2.7 Delivery Personnel Management:-**

Managing a fleet of delivery personnel involves challenges such as recruitment, training, and maintaining a consistent level of service quality across all personnel.

## **2.8 Economic Viability and Pricing:-**

Balancing the economic sustainability of restaurant, delivery platforms, and customers can be challenging. Commission structures and pricing models must align with market realities while ensuring fair compensation for all stakeholders.

## **2.9 Regulatory Compliance:-**

Online food delivery systems are subject to various regulations related to food safety, taxation, labor laws, and more. Adhering to these regulations across multiple regions can be complex and demanding.

## **2.10 Environmental Impact:-**

The increased use of packaging materials and delivery vehicles in online food delivery systems can contribute to environmental concerns. Finding sustainable packaging solutions and optimizing delivery routes are ongoing challenges.

### **3.GOALS AND OBJECTIVES**

#### **3.1 Convenience:-**

Provide customers with a convenient and hassle-free way to order a variety of cuisines from their preferred restaurant, eliminating the need for physical visits or cooking at home.

#### **3.2 Efficiency:-**

Streamline the food ordering and delivery process to ensure timely and accurate deliveries, optimizing routes and logistics for an improved customer experience.

#### **3.3 Choice:-**

Offer a diverse range of dining options, allowing customers to explore menus from restaurant and discover new culinary experiences.

#### **3.4 Accessibility:-**

Make food accessible to a wider audience by enabling smaller eateries to reach a larger customer base and compete effectively in the market.

#### **3.5 Revenue Generation:-**

Generate revenue for restaurant by expanding their reach and providing a platform to showcase their offerings, thereby increasing sales potential.

#### **3.6 Employment Opportunities:-**

Create job opportunities for delivery personnel, enhancing local employment and offering flexible earning options.

#### **3.7 Technological Innovation:-**

Drive innovation in the food industry by integrating advanced technology, such as mobile apps, real-time tracking, and secure payment gateways, to enhance the overall food delivery experience.



## 4.SOFTWARE REQUIREMENT SPECIFICATION

The software scope for an online food delivery system encompasses a range of functionalities and components that collectively ensure the smooth operation of the platform. Here are some key aspects of the software scope for such a system:

### 4.1 Operating Environment Hardware and Software-

#### 4.1.1 Hardware Requirements:-

Type	Client Side Configuration	Server Side Configuration
Processor	Pentium-4, With Clock Speed of 2.0GHz RAM-1GB or above	AWS EC2 t2micro
RAM	4 GB	1GB
Hard Disk	500GB	8GB

#### 4.1.2 Software Requirements:-

Type	Client Side Configuration	Serve Side Configuration
Operating System	Intel core to Duo generation64-bit, windows 10	Windows XP/8/10, PentiumIV 2.4 GHz.
Front-End	HTML ,CSS , React.js, Node.js	HTML ,CSS , React.js, Node.js
Backend	MS .Net	MS .Net
Database	SQL Server	SQL Server

## **5.SYSTEM MODULE**

- **Admin (restaurant owner)**
- **Customer (user)**
- **Delivery person**

### **5.1 Admin Dashboard:-**

- Menu Management (Add, Edit, Delete Items)
- Customer lists
- Managed delivery boy
- Add delivery area
- Order Management and Processing

### **5.2 User Dashboard:-**

- User Registration and Login
- Edit profile
- Browsing Menus from Restaurant & Dish Selection
- Add address/select area
- Placing and Tracking Orders
- Secure Payment Integration (Credit/Debit Cards, Digital Wallets, etc.)
- Order History
- Ratings and Reviews

### **5.3 Delivery Boy Dashboard:-**

- See delivery summary
- Order Status Updates (Picked,Dispatch, Delivered)
- Communication with Customers and Restaurants

## 6.DESIGN DIAGRAM

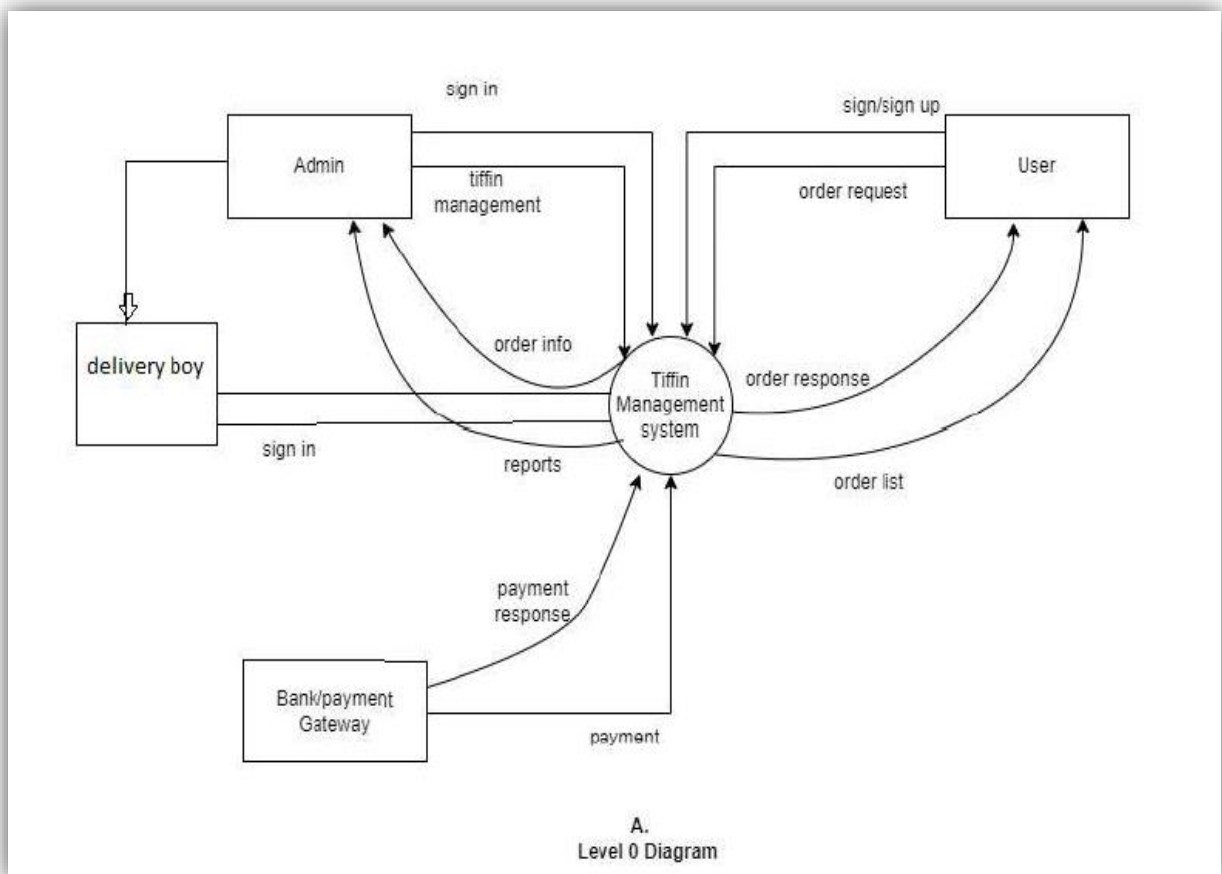
### 6.1 DFD Diagram:-

Food Ordering System is actually a type of software that allows the manager of restaurant to manage and accept the placed orders over the Internet or in the restaurant. Let us understand the working of the food ordering system by using DFD (Data Flow Diagram). DFD for Food Ordering System is shown below.

Here, different levels of DFD are shown for Food Ordering System such as Level 0 DFD and Level 1 DFD

#### 6.1.1 Level 0 Diagram:-

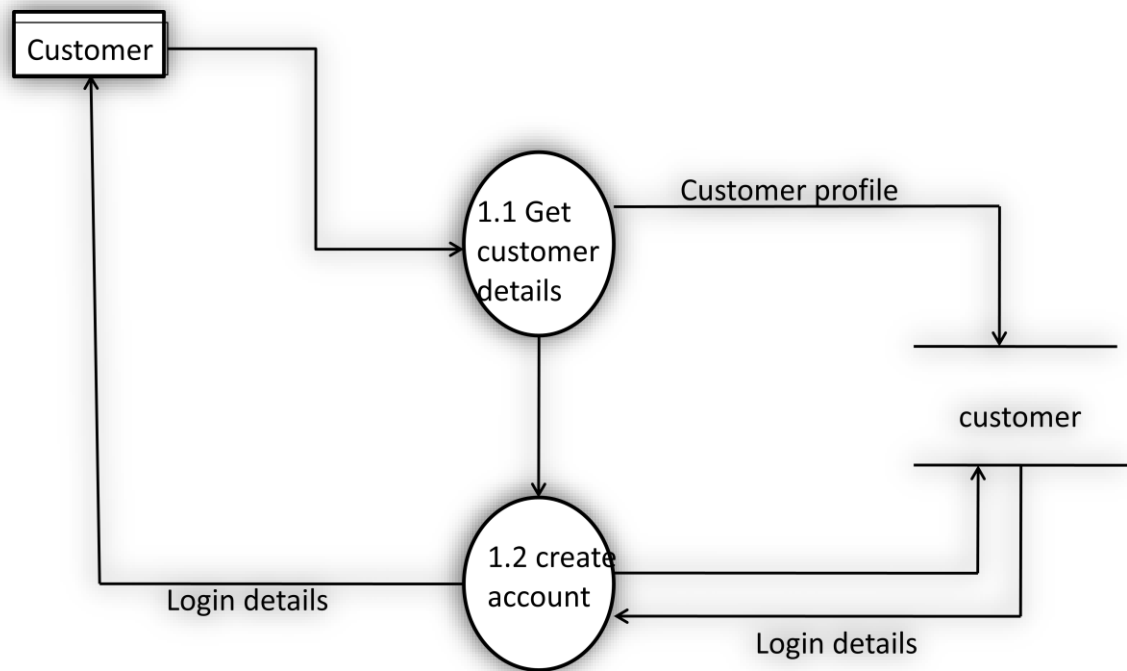
At this level, the Input and Output of the system are shown. The system is designed and established across the world with input and output at this level



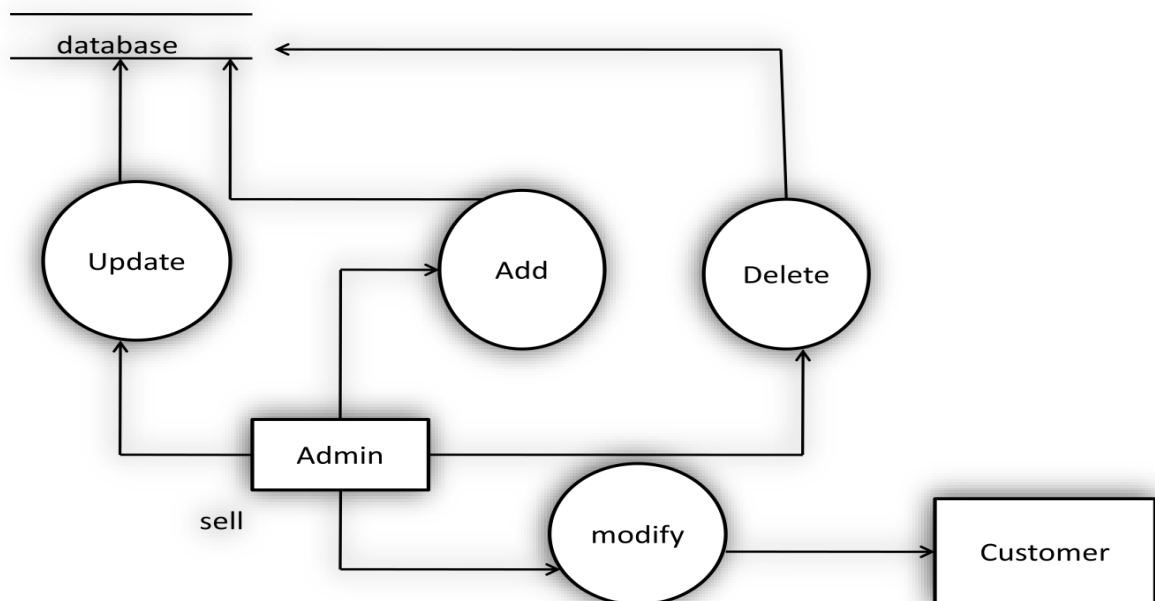
### 6.1.2 Level 1 Diagram:-

- Login
- Modify

#### I. Login:-

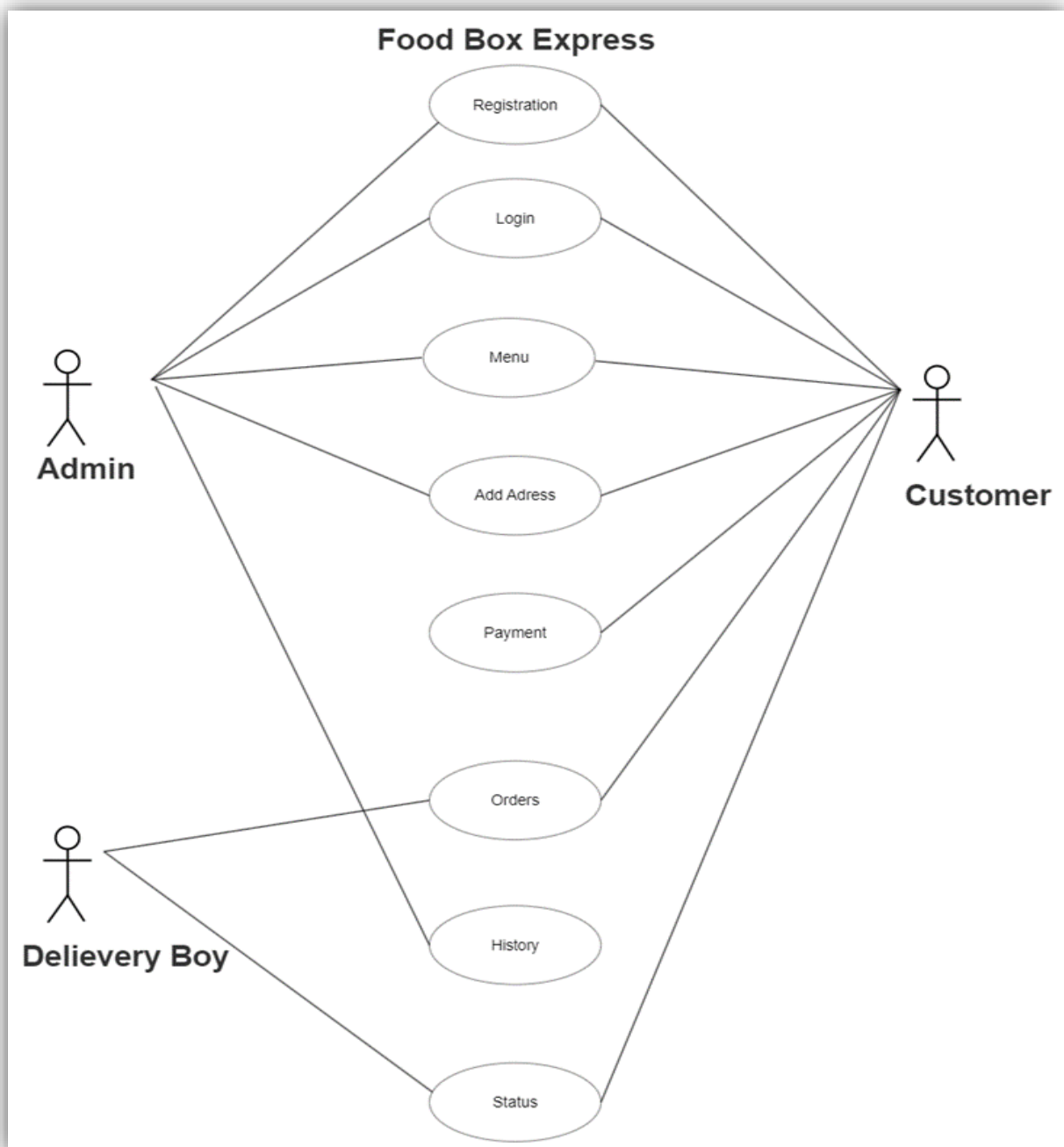


#### II. Modify:-



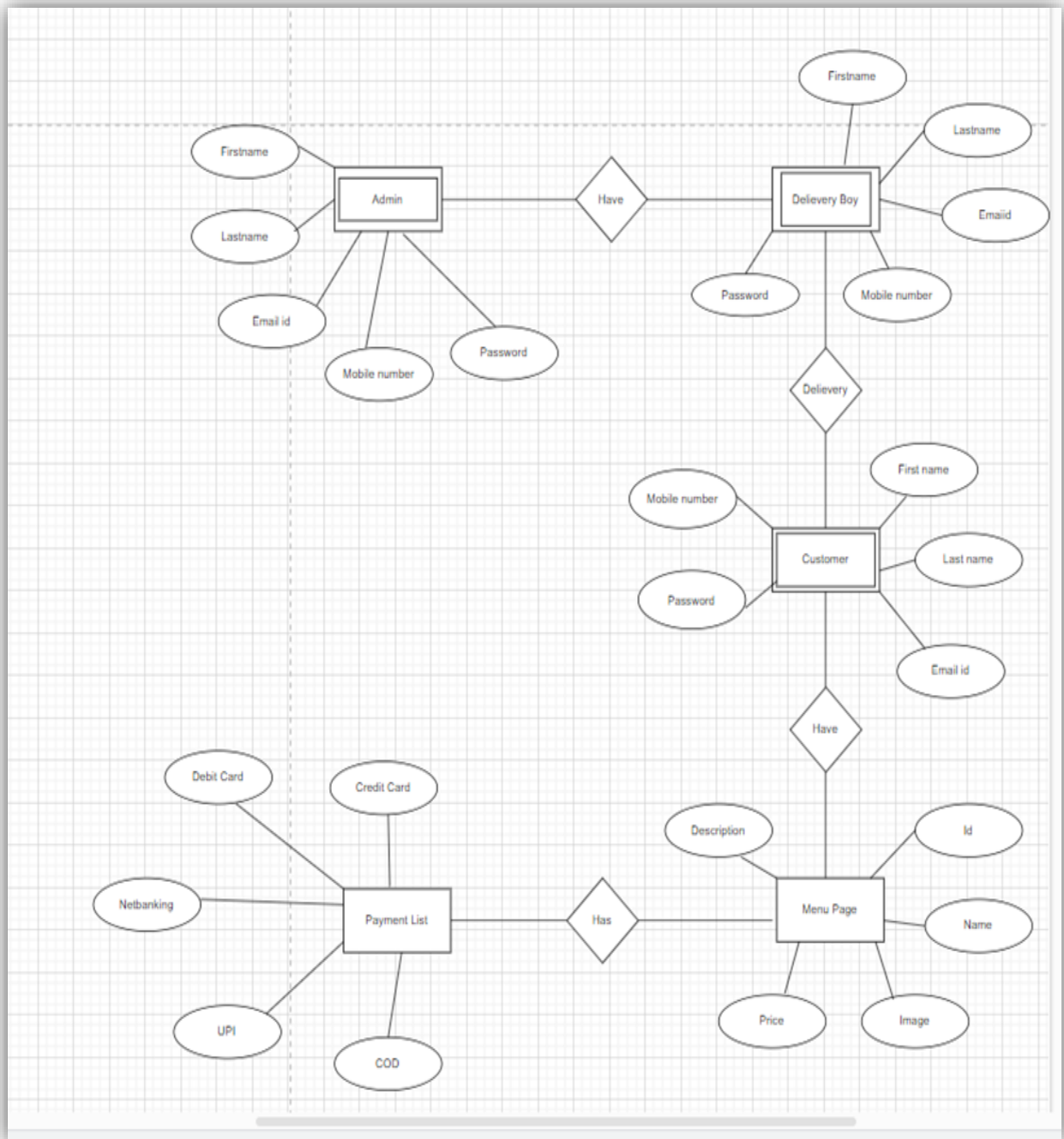
## 6.2 Use Case Diagram:-

Use-case Diagram is the interaction between system and actors. In the given use-case diagram it shows the interaction between Online Food Ordering System and actors i.e., Admin, Customer and Delivery Boy. Use-case diagram shows which actors can perform which functions of the system and the relationship between them as well.



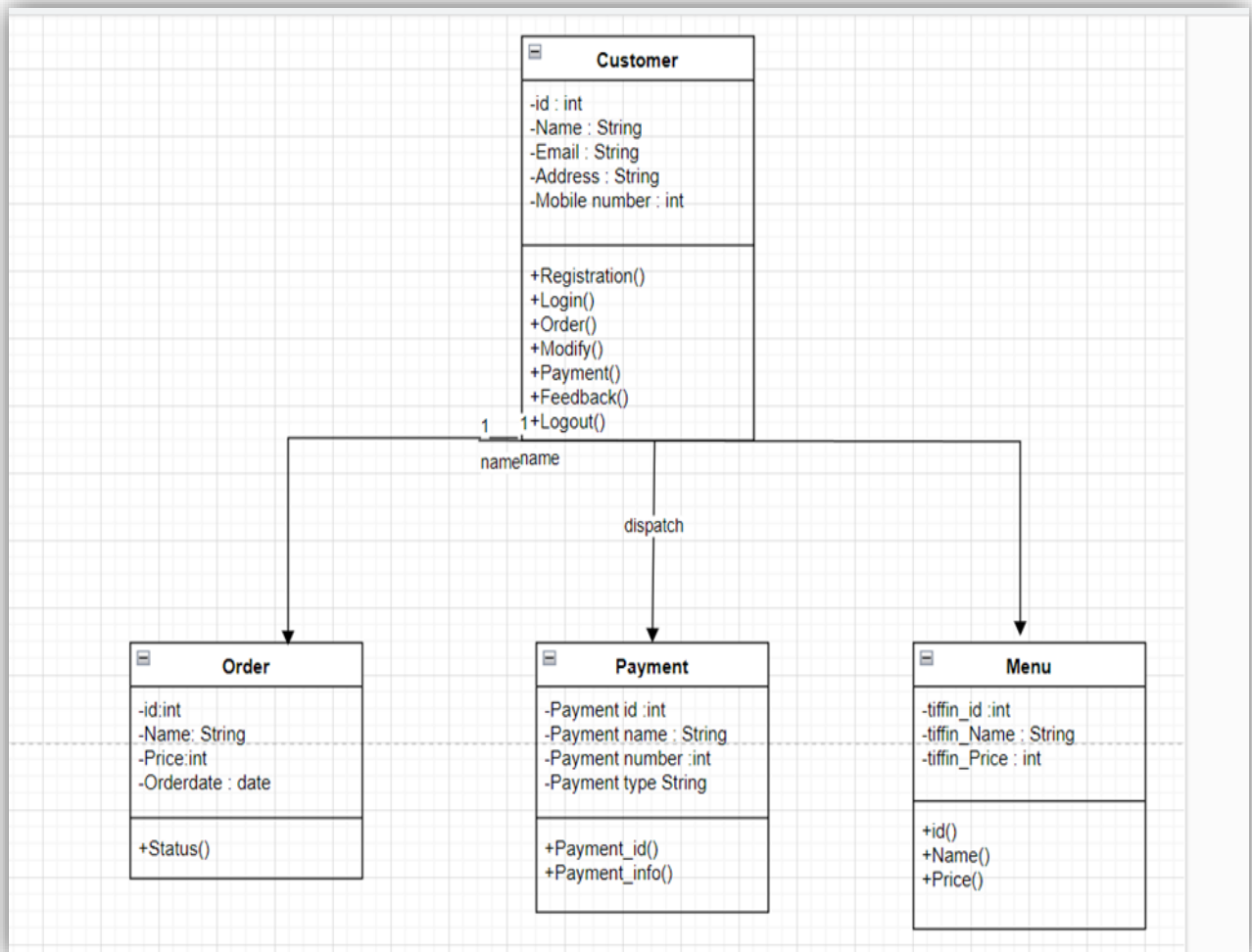
### 6.3 E-R Diagram:-

An Entity-Relationship Diagram (ERD) is a data modeling technique that graphically illustrates an information system's entities and the relationships between those entities. An ERD is a conceptual and representational model of data used to represent the entity framework infrastructure.



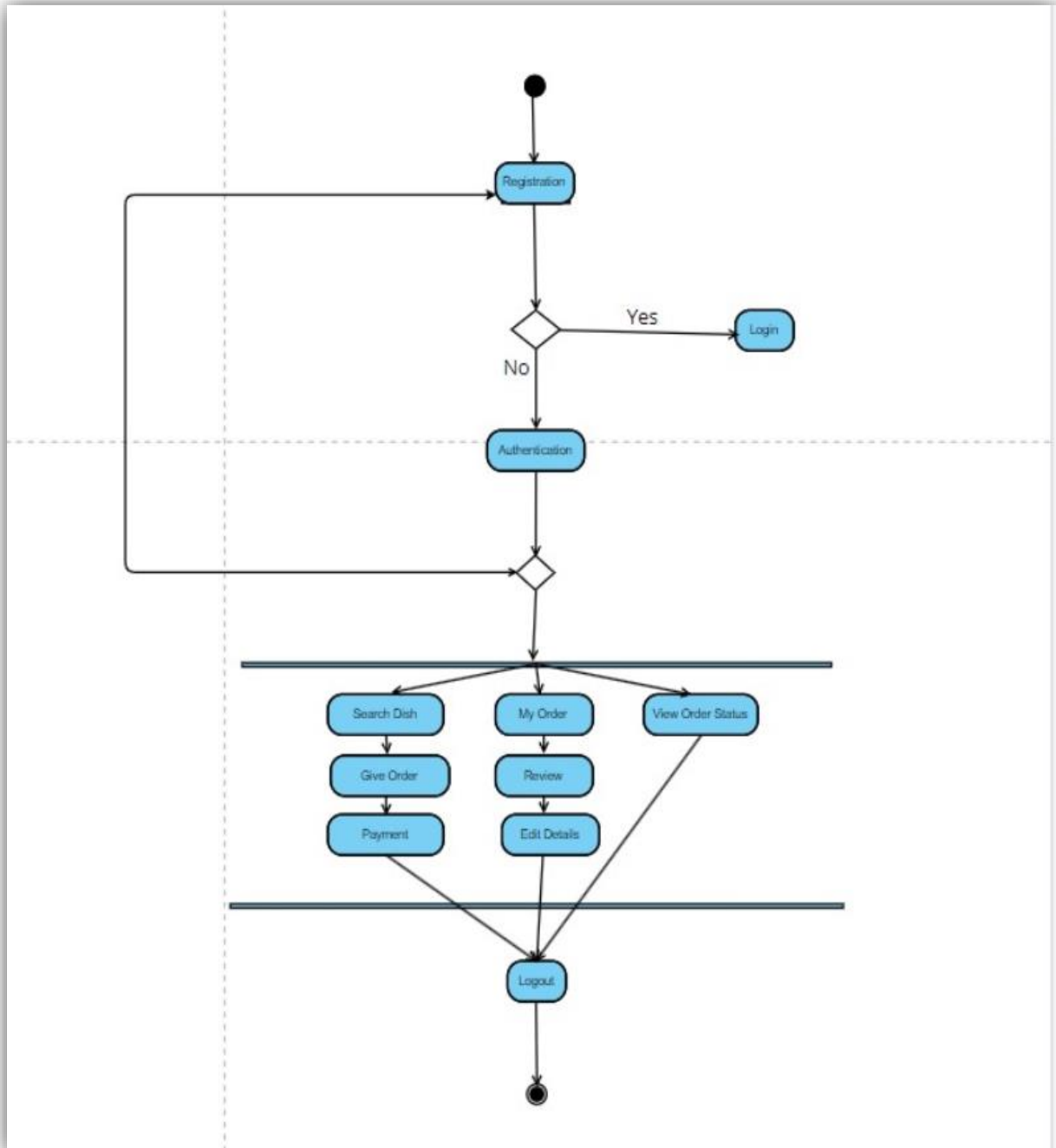
## 6.4 Class Diagram:-

A class diagram is an illustration of the relationships and source code dependencies among classes in the Unified Modeling Language (UML). In this context, a class defines the methods and variables in an object, which is a specific entity in a program or the unit of code representing that entity. Class diagrams are useful in all forms of object-oriented programming (OOP).



## 6.5 Activity Diagram:-

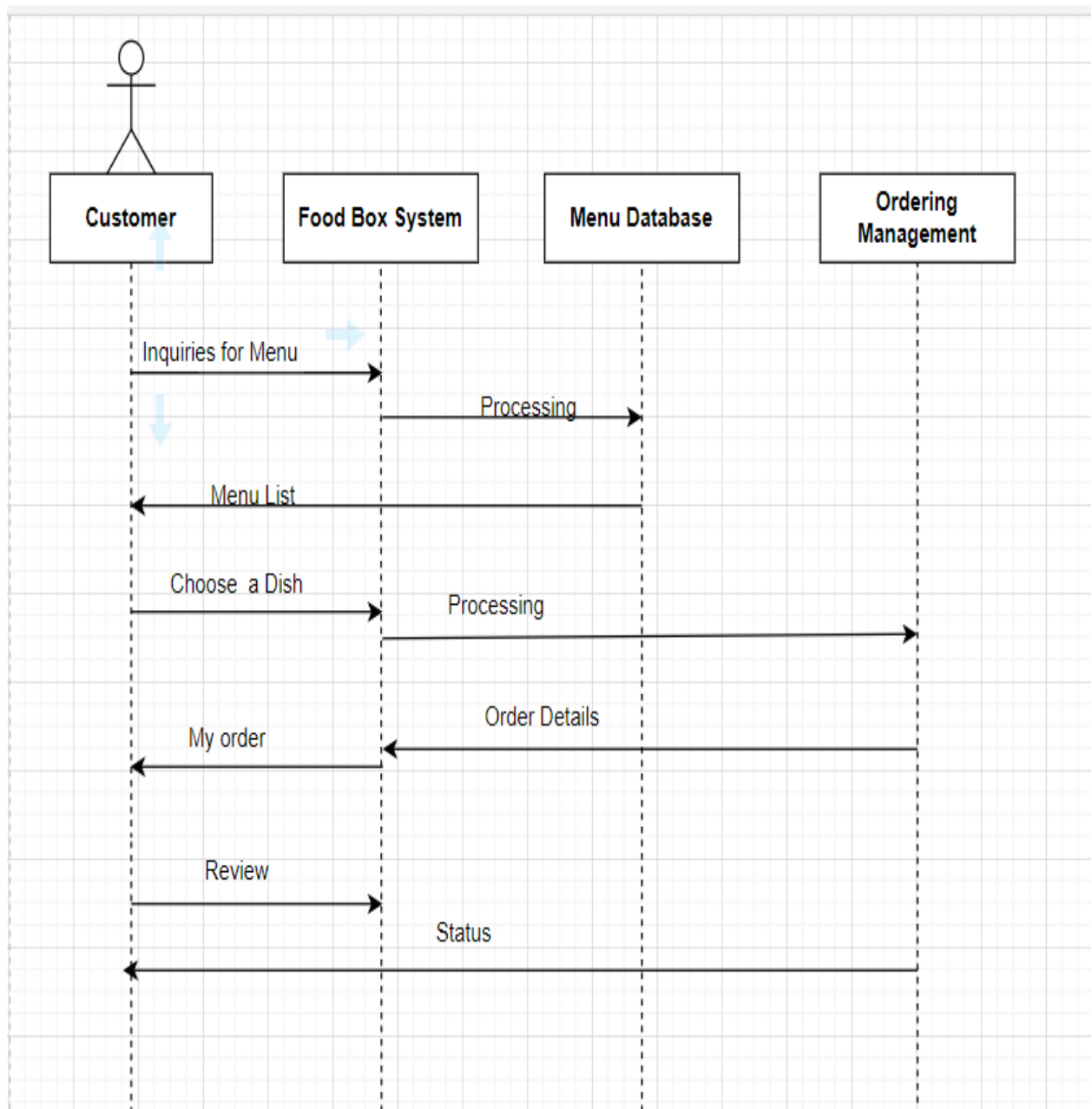
An activity diagram visually presents a series of actions or flow of control in a system similar to a flowchart or a data flow diagram. Activity diagrams are often used in business process modeling. They can also describe the steps in a use case diagram. Activities model can be sequential and concurrent. In both cases an activity diagram will have a beginning and an end.





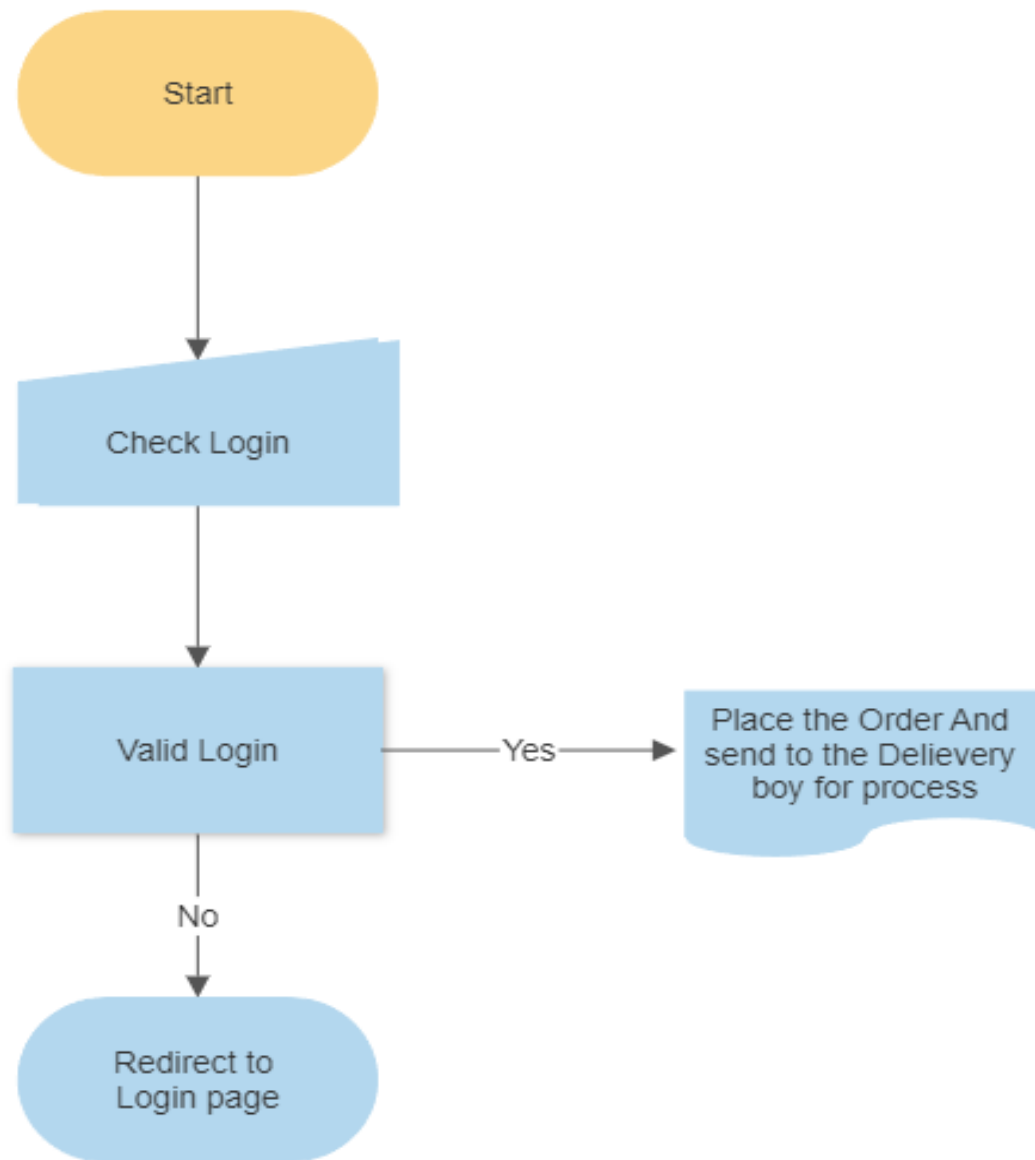
## 6.6 Sequence Diagram:-

UML Sequence Diagrams are interaction diagram that detail how operations are carried out. They capture the interaction between objects in the context of a collaboration. Sequence diagrams are time focus and they show the order of the interaction visually by using the vertical axis of the diagram to represent time what messages are sent and when.



## 6.7 Flow Diagram:-

### ➤ Order Tiffin:-



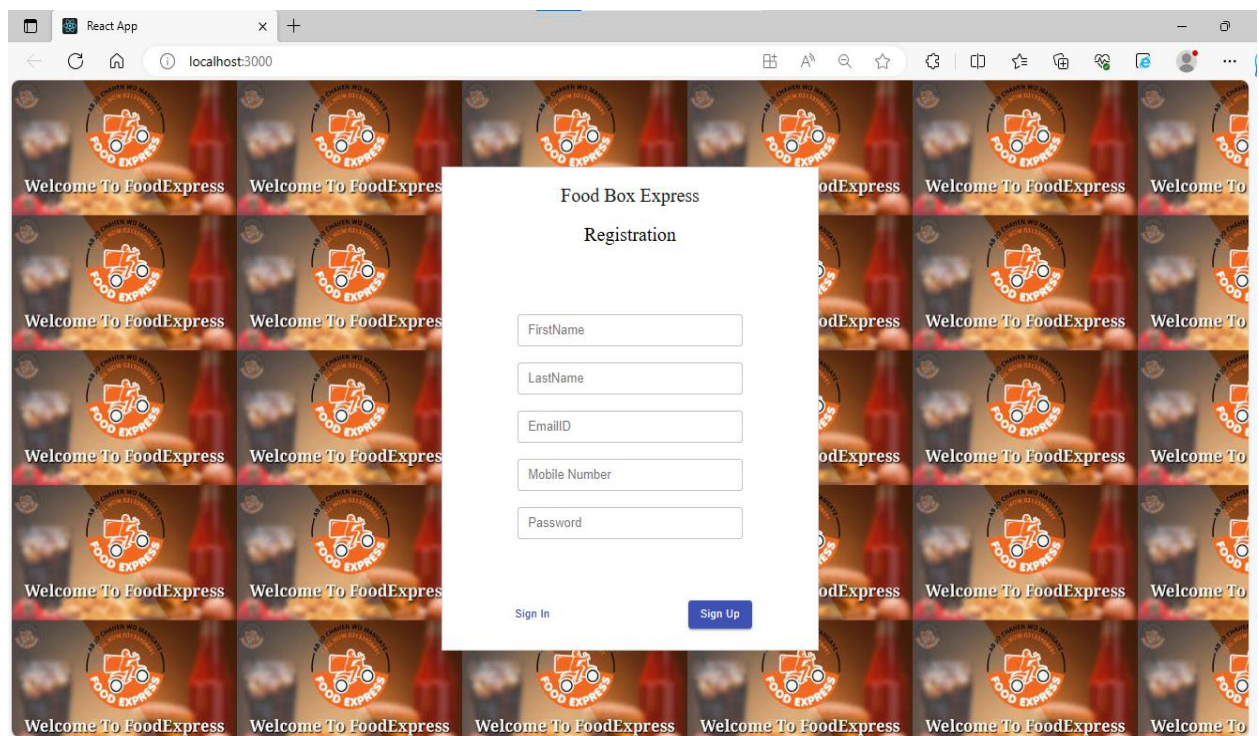
## 7.SYSTEM IMPLEMENTATION

In this part, it actually constructing a new system from the scratch with the help of the system design. This part will look at the implementation of the system including the database and the main application. It including coding, testing and integrate system to meet its requirements. The section highlights the main feature if the system and they were implemented.

### ➤ **Module Description :-**

Modules Description shows the different page of the system and following are different module of these system.

### 7.1 Home Page:-



## 7.2 Admin Module:-

- Registration of New Admin:-

POST /UserRegistration

Parameters

No parameters

Request body

application/json

```
{  "firstName": "Vijay",  "lastName": "Kumar",  "password": "vijay@123",  "role": "Admin",  "aadharNumber": "3568498752",  "emailID": "vijay@gmail.com"}}
```

Execute

Clear

Curl

```
curl -X 'POST' \  'https://localhost:7170/UserRegistration' \  -H 'accept: text/plain' \  -H 'Content-Type: application/json' \  -d '{  "firstName": "Vijay",  "lastName": "Kumar",  "password": "vijay@123",  "role": "Admin",  "aadharNumber": "3568498752",  "emailID": "vijay@gmail.com"}'
```

Request URL

https://localhost:7170/UserRegistration

Server response

Code

Details

200

Response body

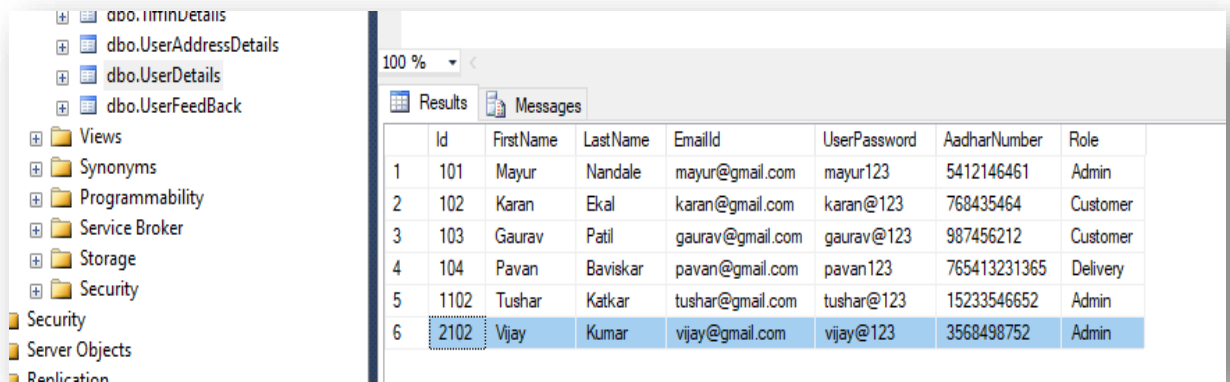
```
{  "message": "User Register Succesfully",  "status": true}
```

Download

Response headers

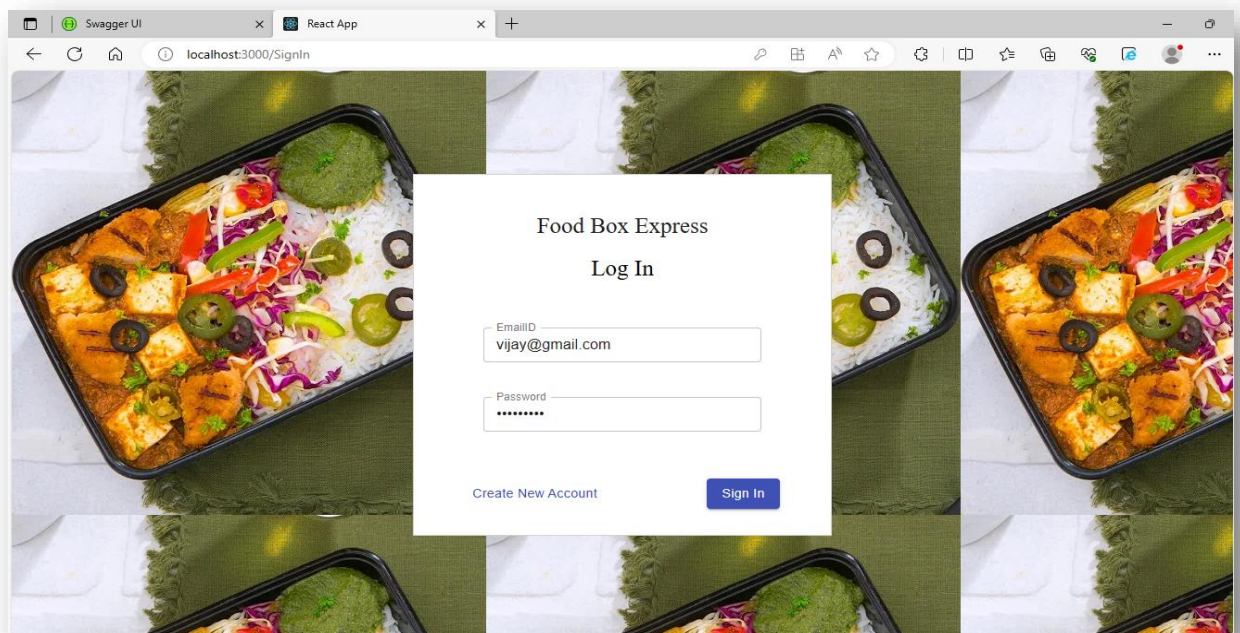
```
access-control-allow-origin: *  content-type: application/json; charset=utf-8  date: Fri,01 Sep 2023 11:08:45 GMT  server: Kestrel
```

- **Admin Registered Successfully:-**



	Id	FirstName	LastName	EmailId	UserPassword	AadharNumber	Role
1	101	Mayur	Nandale	mayur@gmail.com	mayur123	5412146461	Admin
2	102	Karan	Ekal	karan@gmail.com	karan@123	768435464	Customer
3	103	Gaurav	Patil	gaurav@gmail.com	gaurav@123	987456212	Customer
4	104	Pavan	Baviskar	pavan@gmail.com	pavan123	765413231365	Delivery
5	1102	Tushar	Katkar	tushar@gmail.com	tushar@123	15233546652	Admin
6	2102	Vijay	Kumar	vijay@gmail.com	vijay@123	3568498752	Admin

- **Sign in using Admin:-**



- **Admin Dashboard:-**

Food Box Express

Search

Home

Delivery Boy Management

Customer List

Tiffin Management

Delivery Address Management

Orders

ID	Customer Name	Order Name	Order Description	Start Date	End Date
101	Karan	dal chawal	dal chawal	29-08-2023	31-08-2023
1102	Karan	Steam Idli	Steam Idli	31-08-2023	31-08-2023
1103	Karan	Masala Dosa	Masala Dosa	31-08-2023	31-08-2023
101	Karan	dal chawal	dal chawal	29-08-2023	31-08-2023
1102	Karan	Steam Idli	Steam Idli	31-08-2023	31-08-2023
1103	Karan	Masala Dosa	Masala Dosa	31-08-2023	31-08-2023
104	Gaurav	Panner Masala	Spicy	28-08-2023	28-08-2023

- **Delivery Boy Management:-**

Food Box Express

Search

LOGOUT

Home

Delivery Boy Management

Customer List

Tiffin Management

Delivery Address Management

Delivery Boy

Id	Fristname	Lastname	Email ID	Adhar Number
104	Pavan	Baviskar	pavan@gmail.com	765413231365
2104	Rohit	Sharma	rohit@gmail.com	7516482354

- **Add new Delivery Boy:-**

The screenshot shows the 'Add Delivery Boy' form in the Food Box Express Admin Dashboard. The form is located on the right side of the dashboard, and the left sidebar shows the navigation menu with 'Delivery Boy Management' highlighted. The form fields are as follows:

Field	Value
FirstName	Rohit
LastName	Sharma
Email Id	rohit@gmail.com
Password	*****
Mobile Number	7516482354

At the bottom of the form, there are two buttons: 'Submit' (blue) and 'Cancel' (grey).

- **Delivery Boy Added Successfully:-**

The screenshot shows the 'Delivery Boy' table in the Food Box Express Admin Dashboard. The table is located on the right side of the dashboard, and the left sidebar shows the navigation menu with 'Delivery Boy Management' highlighted. The table has the following data:

Id	Fristname	Lastname	Email ID
104	Pavan	Baviskar	pavan@gmail.com
2104	Rohit	Sharma	rohit@gmail.com

+ dbo.UserFeedBack		Results	Messages
+ Views			
+ Synonyms			
+ Programmability			
+ Service Broker			
+ Storage			
+ Security			
Security			
Server Objects			
Replication			
Management			

	Id	FirstName	LastName	EmailId	UserPassword	AadharNumber	Role
1	101	Mayur	Nandale	mayur@gmail.com	mayur123	5412146461	Admin
2	102	Karan	Ekal	karan@gmail.com	karan@123	768435464	Customer
3	103	Gaurav	Patil	gaurav@gmail.com	gaurav@123	987456212	Customer
4	104	Pavan	Baviskar	pavan@gmail.com	pavan123	765413231365	Delivery
5	1102	Tushar	Katkar	tushar@gmail.com	tushar@123	15233546652	Admin
6	2102	Vijay	Kumar	vijay@gmail.com	vijay@123	3568498752	Admin
7	2103	Manish	Pande	manish@gmail.com	manish@123	8954762514	Customer
8	2104	Rohit	Sharma	rohit@gmail.com	rohit@123	7516482354	Delivery

- **Customer List:-**

localhost:3000/AdminDashboard?Firstname=&Lastname=&EmailId=&Password=&MobileNum...

Food Box Express

Search

LOGOUT

- Home
- Delivery Boy Management
- Customer List**
- Tiffin Management
- Delivery Address Management

First Name	Last Name	Email Id	Adhar Number	Role
Karan	Ekal	karan@gmail.com	768435464	Customer
Gaurav	Patil	gaurav@gmail.com	987456212	Customer
Manish	Pande	manish@gmail.com	8954762514	Customer

< >



- **Add Address:-**

The screenshot shows a web browser window with two tabs: 'Swagger UI' and 'React App'. The address bar shows 'localhost:3000/AdminDashboard?NameTiffin=&PriceTiffin=&choosetype=&description='.

The application is 'Food Box Express'. The left sidebar has the following menu items: Home, Delivery Boy Management, Customer List, Tiffin Management, and **Delivery Address Management** (highlighted in yellow).

The main content area displays a modal titled 'Add User Address'. The form contains the following fields:

- Enter Address:** A text area containing 'Rutu Apartment'.
- Enter Area:** A text input containing 'Kolshewadi'.
- Enter Pin:** A text input containing '421301'.

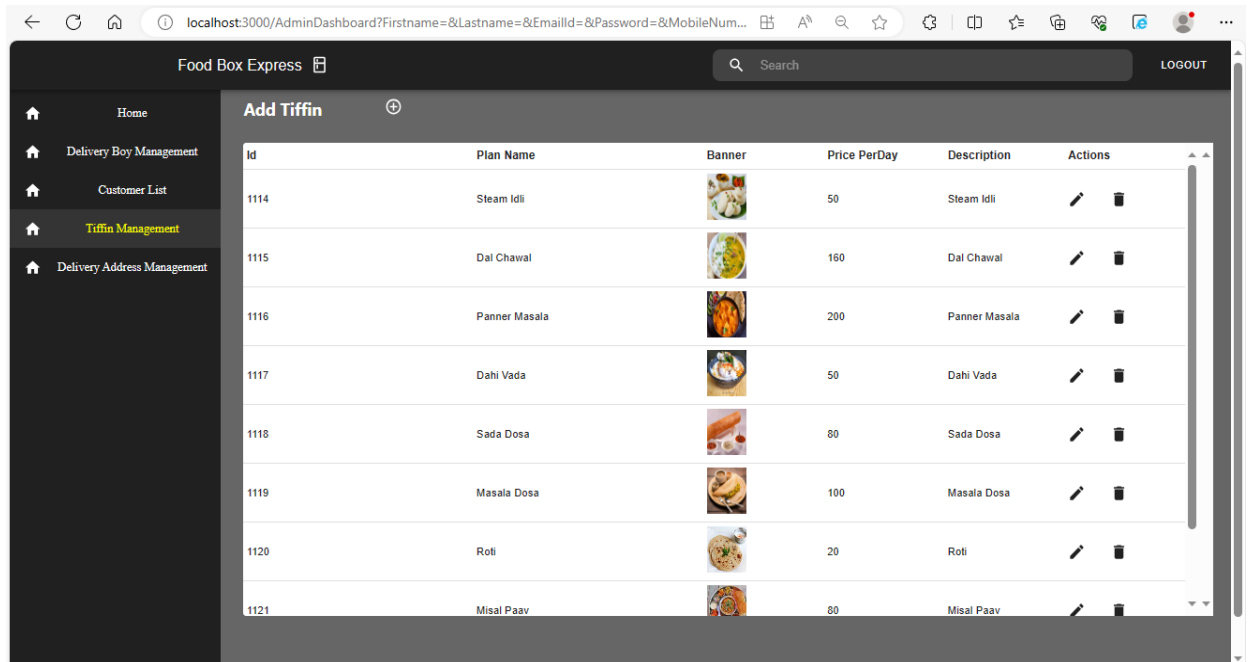
At the bottom of the modal are two buttons: 'Submit' (blue) and 'Cancel' (grey).

The screenshot shows a SQL Server Enterprise Manager window. The left pane displays a tree view with the following items: 'dbo.UserDetails', 'dbo.UserFeedBack', 'Views', 'Synonyms', 'Programmability', 'Service Broker', 'Storage', and 'Security'.

























The right pane shows the 'Results' tab with a table containing 4 rows of data. The table has the following columns: 'Id', 'UserId', 'Address', 'Area', and 'Pin'.

	Id	UserId	Address	Area	Pin
1	101	101	Godrej Hill, Kalyan	khadakpada,kalyan	421301
2	102	101	Kolivli, Kalyan	KOLIVLI	421301
3	103	101	Khadakpada, Kalyan West	KHADAKPADA	421301
4	1102	2102	Rutu Apartment	KOLSHEWADI	421301

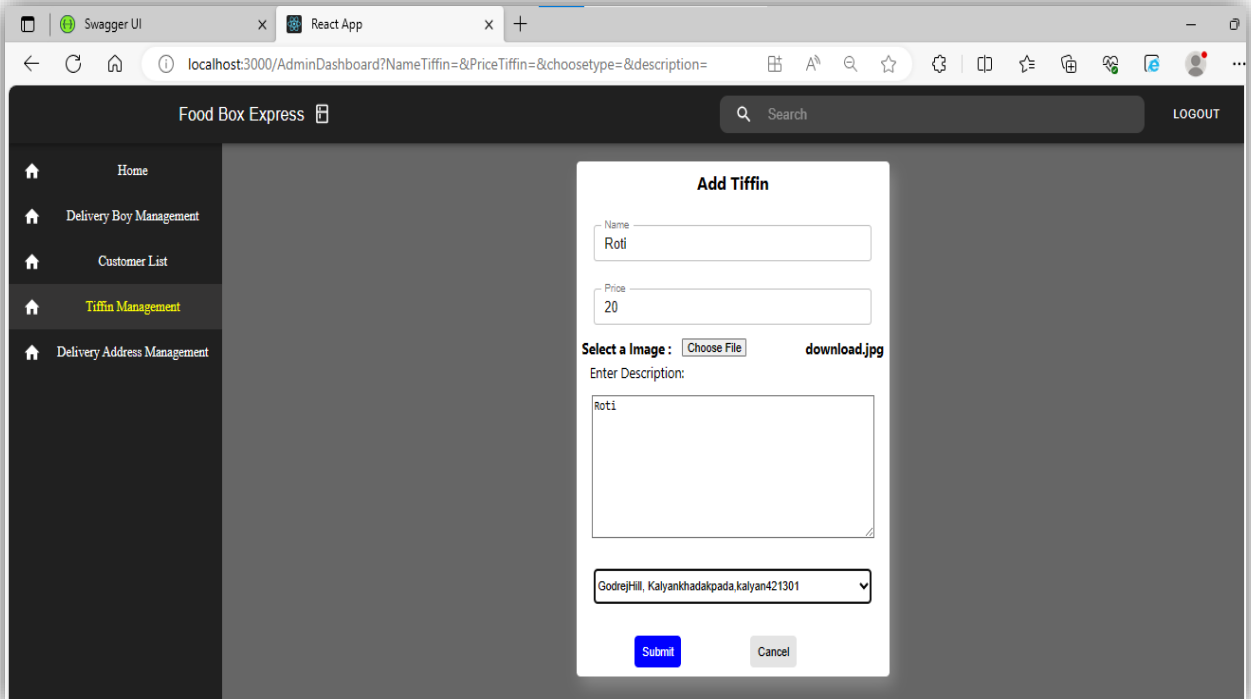
- **Tiffin Management:-**



The screenshot shows the 'Add Tiffin' page in the Food Box Express Admin Dashboard. The left sidebar contains navigation links: Home, Delivery Boy Management, Customer List, Tiffin Management (highlighted), and Delivery Address Management. The main content area displays a table with the following data:

Id	Plan Name	Banner	Price PerDay	Description	Actions
1114	Steam Idli		50	Steam Idli	 
1115	Dal Chawal		160	Dal Chawal	 
1116	Panner Masala		200	Panner Masala	 
1117	Dahi Vada		50	Dahi Vada	 
1118	Sada Dosa		80	Sada Dosa	 
1119	Masala Dosa		100	Masala Dosa	 
1120	Roti		20	Roti	 
1121	Misal Paav		80	Misal Paav	 

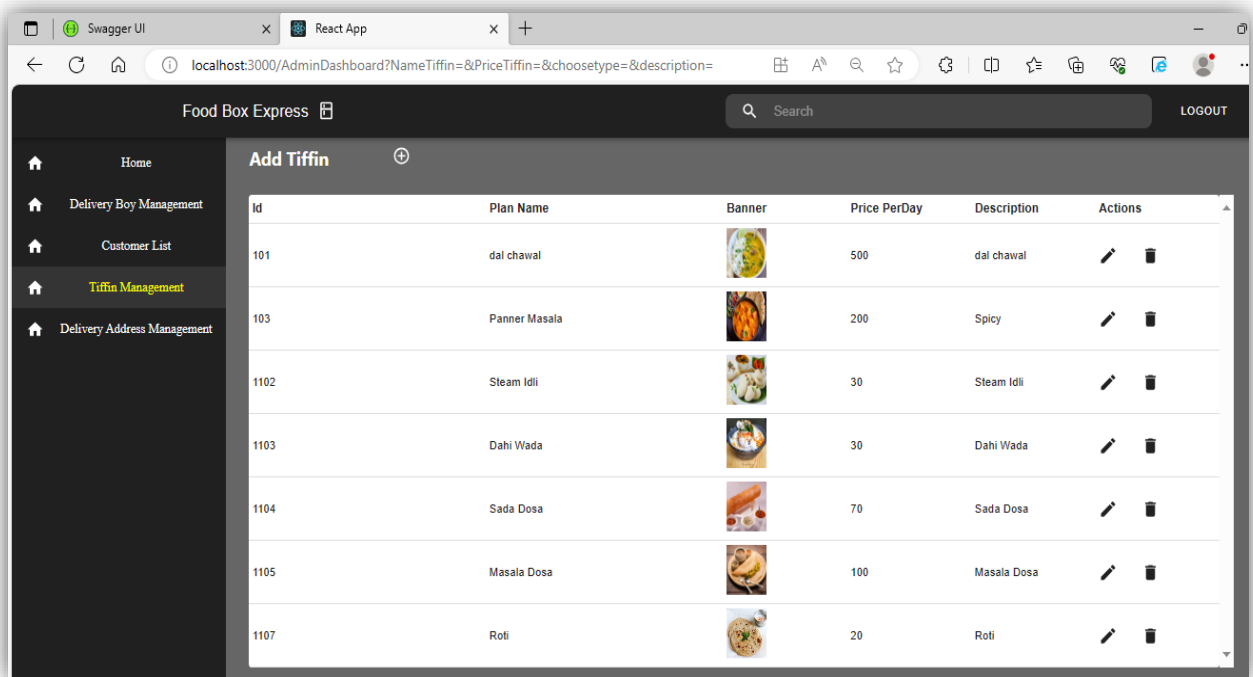
- **Add New Tiffin:-**



The screenshot shows the 'Add Tiffin' form in the Food Box Express Admin Dashboard. The left sidebar is the same as the previous screenshot. The main content area displays the form with the following fields:

- Name:** Roti
- Price:** 20
- Select a Image:** Choose File (download.jpg)
- Enter Description:** Roti
- Address:** GodrejHill, Kalyankhadakpada,kalyan421301
- Buttons:** Submit, Cancel

- **Tiffin Added Successfully:-**



dbo.UserFeedBack

Views

Synonyms

Programmability

Service Broker

Storage

Security

Security

Server Objects

Replication

Results

Messages

	Id	TiffinName	Price	ImageURL	TiffinDescription	TiffinAddress	IsDeleted	AdminId
1	101	dal chawal	500	http://res.cloudinary.com/dw9jw58vv/image/upload...	dal chawal	101	0	101
2	103	Panner Masala	200	http://res.cloudinary.com/dw9jw58vv/image/upload...	Spicy	102	0	101
3	1102	Steam Idli	30	http://res.cloudinary.com/dw9jw58vv/image/upload...	Steam Idli	103	0	1102
4	1103	Dahi Wada	30	http://res.cloudinary.com/dw9jw58vv/image/upload...	Dahi Wada	103	0	1102
5	1104	Sada Dosa	70	http://res.cloudinary.com/dw9jw58vv/image/upload...	Sada Dosa	103	0	1102
6	1105	Masala Dosa	100	http://res.cloudinary.com/dw9jw58vv/image/upload...	Masala Dosa	103	0	1102
7	1107	Roti	20	http://res.cloudinary.com/dw9jw58vv/image/upload...	Roti	101	0	2102

- **Edit Tiffin (Steam idli Price changed):-**

Food Box Express

Search

LOGOUT

Home

Delivery Boy Management

Customer List

**Tiffin Management**

Delivery Address Management

**Add Tiffin**

Name: Steam Idli

Price: 30

Select a Image : [Choose File](#) **Steam Idli.jpg**

Please Select the Image

Enter Description:

Steam Idli

KhadakpadaBHOIRVADI421381

Save Cancel

Food Box Express

Search

LOGOUT

Home

Delivery Boy Management

Customer List

**Tiffin Management**

Delivery Address Management

**Add Tiffin**

Id	Plan Name	Banner	Price PerDay	Description	Actions
1114	Steam Idli		30	Steam Idli	
1115	Dal Chawal		160	Dal Chawal	
1116	Panner Masala		200	Panner Masala	
1117	Dahi Vada		50	Dahi Vada	
1118	Sada Dosa		80	Sada Dosa	
1119	Masala Dosa		100	Masala Dosa	
1120	Roti		20	Roti	
1121	Misal Paav		80	Misal Paav	

Results		Messages						
	Id	TiffinName	Price	ImageURL	TiffinDescription	TiffinAddress	IsDeleted	AdminId
1	1114	Steam Idli	30	http://res.cloudinary.com/dw9jw58vv/image/upload...	Steam Idli	1103	0	1102
2	1115	Dal Chawal	160	http://res.cloudinary.com/dw9jw58vv/image/upload...	Dal Chawal	1103	0	2102
3	1116	Panner Masala	200	http://res.cloudinary.com/dw9jw58vv/image/upload...	Panner Masala	1103	0	2102
4	1117	Dahi Vada	50	http://res.cloudinary.com/dw9jw58vv/image/upload...	Dahi Vada	1104	0	2102
5	1118	Sada Dosa	80	http://res.cloudinary.com/dw9jw58vv/image/upload...	Sada Dosa	1104	0	2102
6	1119	Masala Dosa	100	http://res.cloudinary.com/dw9jw58vv/image/upload...	Masala Dosa	1104	0	2102
7	1120	Roti	20	http://res.cloudinary.com/dw9jw58vv/image/upload...	Roti	1103	0	2102
8	1121	Misal Paav	80	http://res.cloudinary.com/dw9jw58vv/image/upload...	Misal Paav	1104	0	2102
9	1122	Vada Paav	20	http://res.cloudinary.com/dw9jw58vv/image/upload...	Vada Paav	1103	0	2102
10	1123	Samosa	15	http://res.cloudinary.com/dw9jw58vv/image/upload...	Samosa	1103	1	2102

- **Delete Tiffin (Roti):-**

Food Box Express

Search

LOGOUT

Home

























Delivery Boy Management

Customer List

Tiffin Management

Delivery Address Management

Add Tiffin

Id	Plan Name	Banner	Price PerDay	Description	Actions
1114	Steam Idli		30	Steam Idli	 
1115	Dal Chawal		160	Dal Chawal	 
1116	Panner Masala		200	Panner Masala	 
1117	Dahi Vada		50	Dahi Vada	 
1118	Sada Dosa		80	Sada Dosa	 
1119	Masala Dosa		100	Masala Dosa	 
1120	Roti		20	Roti	 
1121	Misal Paav		80	Misal Paav	 

- Roti deleted successfully:-

Food Box Express

Search

LOGOUT

Home

























Delivery Boy Management

Customer List

**Tiffin Management**

Delivery Address Management

Add Tiffin

Id	Plan Name	Banner	Price PerDay	Description	Actions
1114	Steam Idli		30	Steam Idli	 
1115	Dal Chawal		160	Dal Chawal	 
1116	Panner Masala		200	Panner Masala	 
1117	Dahi Vada		50	Dahi Vada	 
1118	Sada Dosa		80	Sada Dosa	 
1119	Masala Dosa		100	Masala Dosa	 
1121	Misal Paav		80	Misal Paav	 
1122	Vada Paav		20	Vada Paav	 

Results

Messages

	<div>Id</div>	<div>TiffinName</div>	<div>Price</div>	<div>ImageURL</div>	<div>TiffinDescription</div>	<div>TiffinAddress</div>	<div>IsDeleted</div>	<div>AdminId</div>
1	1114	Steam Idli	30	http://res.cloudinary.com/dw9jw58vv/image/upload...	Steam Idli	1103	0	1102
2	1115	Dal Chawal	160	http://res.cloudinary.com/dw9jw58vv/image/upload...	Dal Chawal	1103	0	2102
3	1116	Panner Masala	200	http://res.cloudinary.com/dw9jw58vv/image/upload...	Panner Masala	1103	0	2102
4	1117	Dahi Vada	50	http://res.cloudinary.com/dw9jw58vv/image/upload...	Dahi Vada	1104	0	2102
5	1118	Sada Dosa	80	http://res.cloudinary.com/dw9jw58vv/image/upload...	Sada Dosa	1104	0	2102
6	1119	Masala Dosa	100	http://res.cloudinary.com/dw9jw58vv/image/upload...	Masala Dosa	1104	0	2102
7	1120	Roti	20	http://res.cloudinary.com/dw9jw58vv/image/upload...	Roti	1103	1	2102
8	1121	Misal Paav	80	http://res.cloudinary.com/dw9jw58vv/image/upload...	Misal Paav	1104	0	2102
9	1122	Vada Paav	20	http://res.cloudinary.com/dw9jw58vv/image/upload...	Vada Paav	1103	0	2102
10	1123	Samosa	15	http://res.cloudinary.com/dw9jw58vv/image/upload...	Samosa	1103	1	2102

## 7.3 Customer Module:-

- **Customer Registration:-**

The screenshot shows a web browser window with the URL 'localhost:3000'. The page displays a registration form for 'Food Box Express'. The form has a white background and is centered on the page. The background of the browser window is a repeating pattern of the 'Food Express' logo, which features a red motorcycle and the text 'NO CHAIER NO MANDAI' and 'NO WORK NO STATUTORY'. The form fields are as follows:

- FirstName: Manish
- LastName: Pande
- EmailID: manish@gmail.com
- Mobile Number: 8954762514
- Password: (masked with dots)

At the bottom of the form, there are two buttons: 'Sign In' and 'Sign Up'.

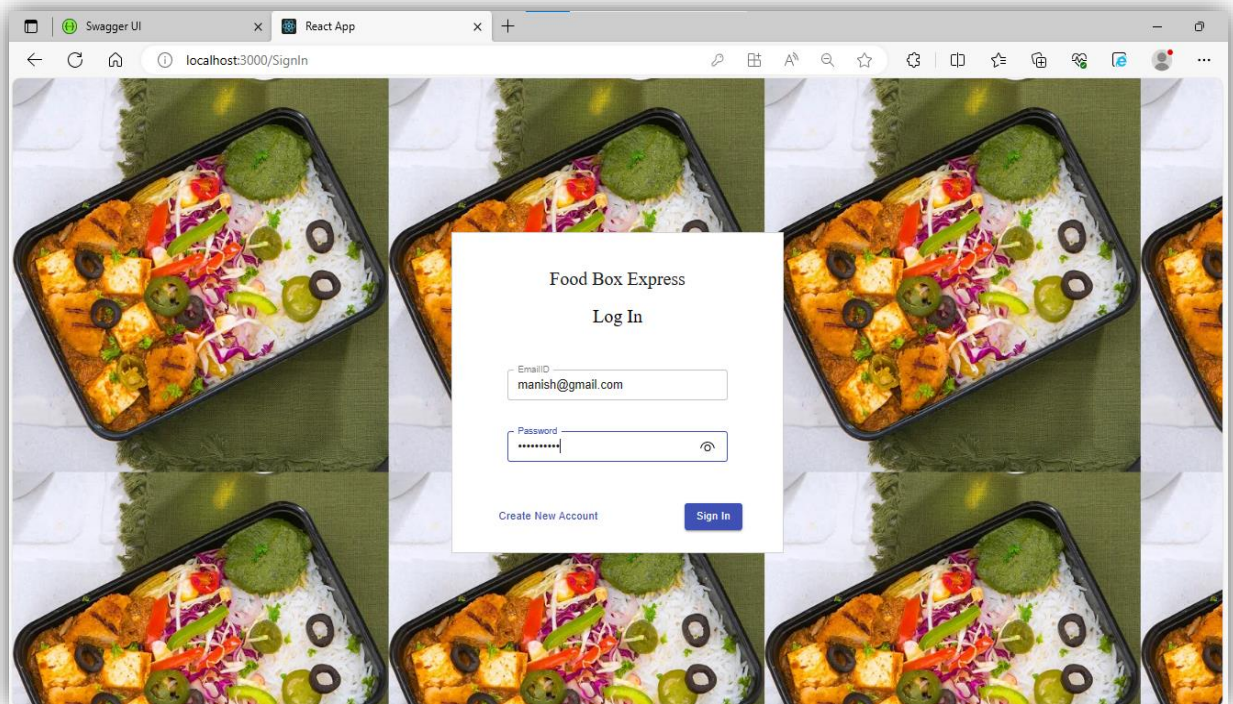
- **Customer Registered Successfully:-**

The screenshot shows a SQL Server Enterprise Manager window. The left pane displays the database structure, including 'dbo.UserFeedBack', 'Views', 'Synonyms', 'Programmability', 'Service Broker', 'Storage', 'Security', 'Server Objects', and 'Replication'. The right pane shows the 'Results' tab with a table of data. The table has 8 columns: Id, First Name, Last Name, Email Id, User Password, Aadhar Number, and Role. The data is as follows:

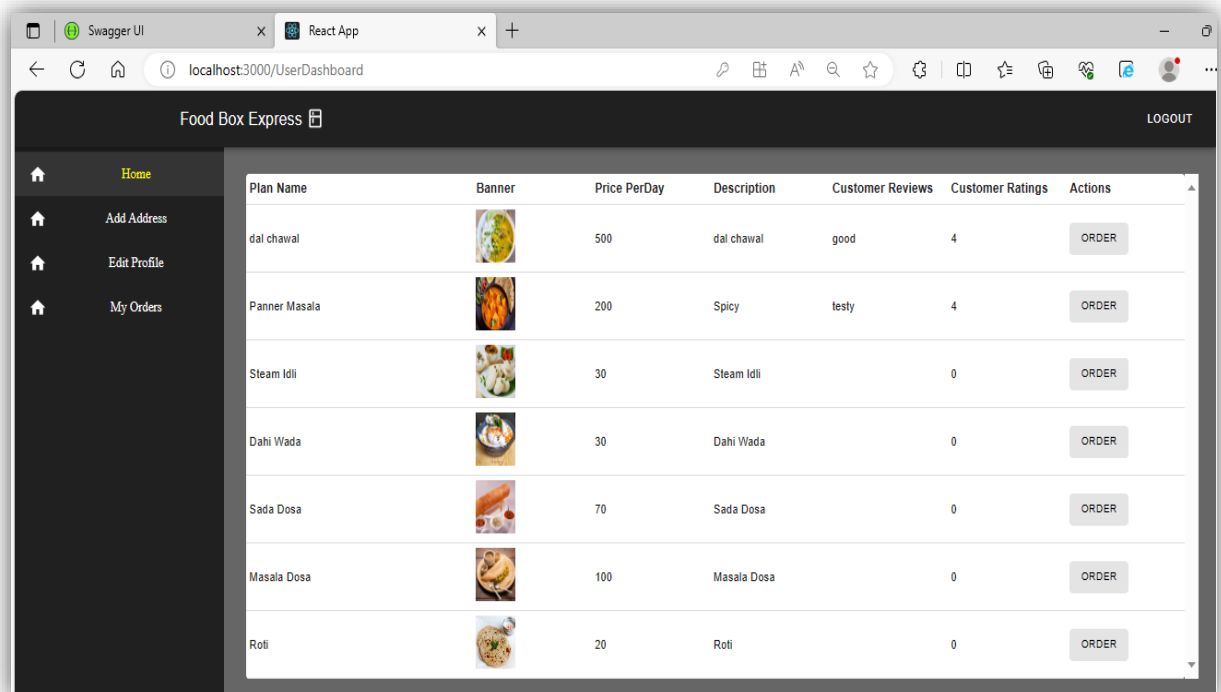
	Id	First Name	Last Name	Email Id	User Password	Aadhar Number	Role
1	101	Mayur	Nandale	mayur@gmail.com	mayur123	5412146461	Admin
2	102	Karan	Ekal	karan@gmail.com	karan@123	768435464	Customer
3	103	Gaurav	Patil	gaurav@gmail.com	gaurav@123	987456212	Customer
4	104	Pavan	Baviskar	pavan@gmail.com	pavan123	765413231365	Delivery
5	1102	Tushar	Katkar	tushar@gmail.com	tushar@123	15233546652	Admin
6	2102	Vijay	Kumar	vijay@gmail.com	vijay@123	3568498752	Admin
7	2103	Manish	Pande	manish@gmail.com	manish@123	8954762514	Customer



- **Sign in using Customer:-**



- **Customer Dashboard:-**





- **Add User Address:-**

	Id	UserId	Address	Araid
1	101	102	304-B Wing, Mahavir Heights	101
2	102	102	B-1 Mahavir Havance	101
3	103	103	C-3/201, Gokul Nagri	103
4	1102	2103	Rutu Vhilla	1102

- **Edit User Details:-**

Results		Messages					
	Id	FirstName	LastName	EmailId	UserPassword	AadharNumber	Role
1	101	Mayur	Nandale	mayur@gmail.com	mayur123	5412146461	Admin
2	102	Karan	Ekal	karan@gmail.com	karan@123	768435464	Customer
3	103	Gaurav	Patil	gaurav@gmail.com	gaurav@123	987456212	Customer
4	104	Pavan	Baviskar	pavan@gmail.com	pavan123	765413231365	Delivery
5	1102	Tushar	Katkar	tushar@gmail.com	tushar@123	15233546652	Admin
6	2102	Vijay	Kumar	vijay@gmail.com	vijay@123	3568498752	Admin
7	2103	Manish	Pande	manish@gmail.com	manish@123	8745236556	Customer
8	2104	Rohit	Shama	rohit@gmail.com	rohit@123	7516482354	Delivery

- **Order the Tiffin:-**

The screenshot shows a web browser window with two tabs: 'Swagger UI' and 'React App'. The address bar shows 'localhost:3000/UserDashboard?FromDate=&ToDate=&UserAddressetails=Select+Address'. The page title is 'Food Box Express' with a 'LOGOUT' link in the top right. A left sidebar contains links: 'Home', 'Add Address', 'Edit Profile', and 'My Orders'. The main content area displays a white 'Order Details' form. The form has three input fields: 'Select From Date' with the value '09/01/2023', 'Select To Date' with the value '09/01/2023', and a dropdown menu showing 'Rutu VillaRutu Apartment,KOLSHEWADI,421301'. At the bottom of the form are two buttons: a blue 'Submit' button and a grey 'Cancel' button.

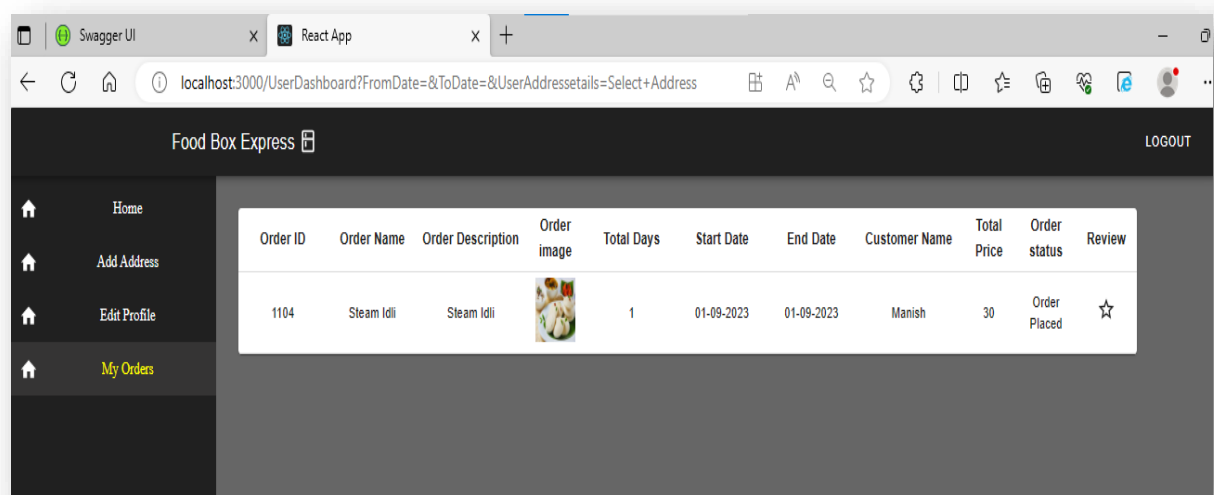
- **Payment Done:-**


The screenshot shows the same web browser window as the previous one, but the main content area displays a white 'Payment Details' form. The form has a single dropdown menu with 'Credit' selected. At the bottom of the form are two buttons: a blue 'Submit' button and a grey 'Cancel' button.

- **Payment Details:-**

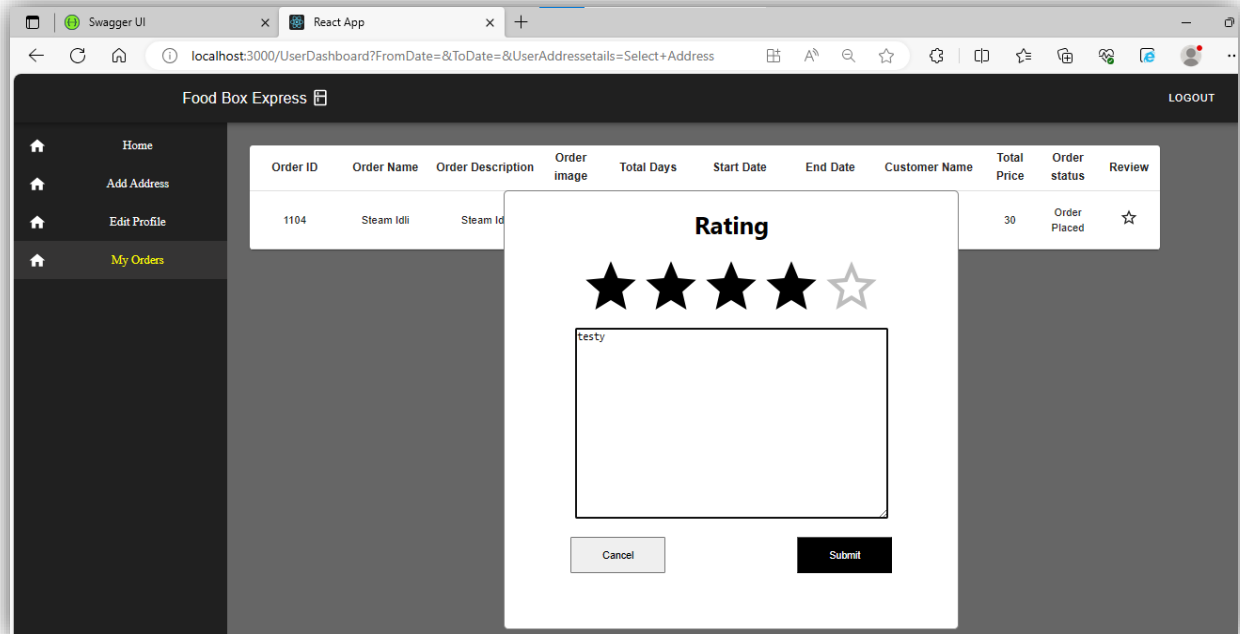
	Id	UserId	TiffinId	Status	IsDeleted	StartDate	EndDate	AddressId	DeliveryHolderId	PaymentMode
1	101	102	101	Delivered	0	2023-08-29 00:00:00.000	2023-08-31 00:00:00.000	101	104	UPI
2	102	102	102	Delivered	0	2023-08-29 00:00:00.000	2023-08-29 00:00:00.000	101	104	COD
3	103	103	102	Delivered	0	2023-08-28 00:00:00.000	2023-08-28 00:00:00.000	103	104	Debit
4	104	103	103	Delivered	0	2023-08-28 00:00:00.000	2023-08-28 00:00:00.000	103	104	Credit
5	1102	102	1102	Delivered	0	2023-08-31 00:00:00.000	2023-08-31 00:00:00.000	101	104	COD
6	1103	102	1105	Delivered	0	2023-08-31 00:00:00.000	2023-08-31 00:00:00.000	101	104	Credit
7	1104	2103	1102	Delivered	0	2023-09-01 00:00:00.000	2023-09-01 00:00:00.000	1102	2104	Credit

- **View order details:-**



Order ID	Order Name	Order Description	Order image	Total Days	Start Date	End Date	Customer Name	Total Price	Order status	Review
1104	Steam Idli	Steam Idli		1	01-09-2023	01-09-2023	Manish	30	Order Placed	☆

- **Rate the Food:-**

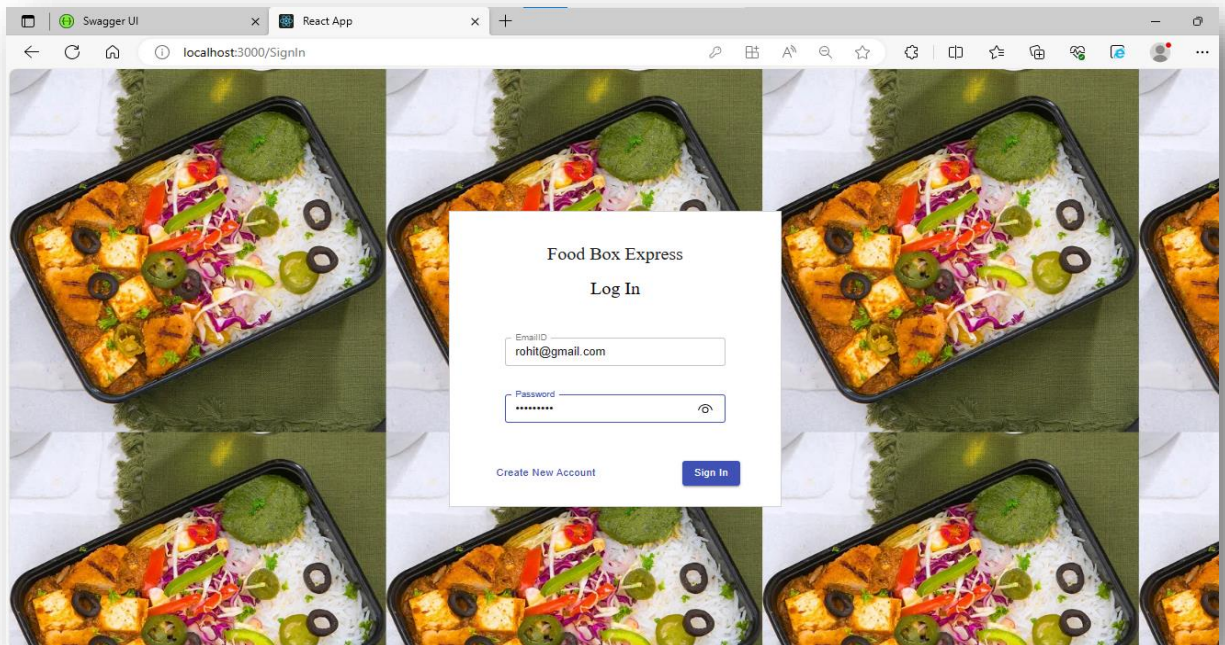


The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Server Objects' tree is expanded to 'Security', and the 'dbo.UserFeedBack' table is selected. On the right, the 'Results' tab is active, displaying a table with the following data:

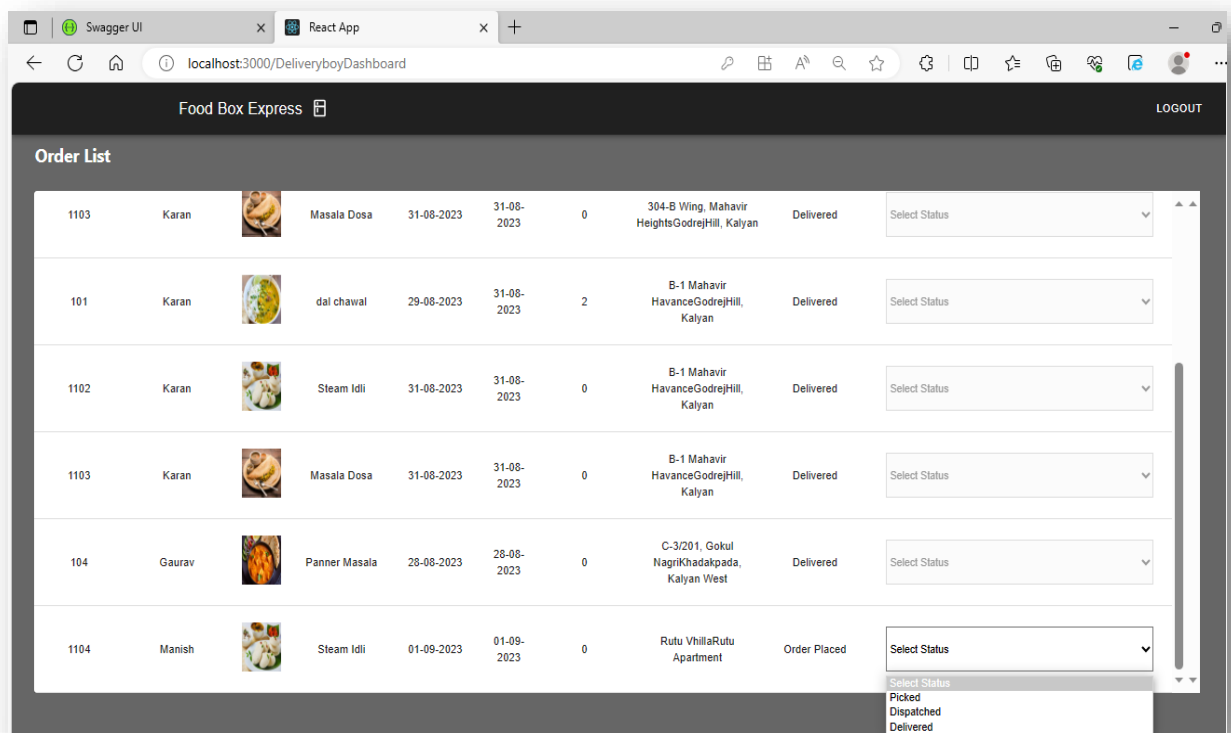
	Id	UserId	TiffinId	Review	Rating
1	1102	102	101	testy	4
2	1103	102	101	good	4
3	1105	103	102	good	3
4	1106	103	102	spicy	4
5	1107	103	103	testy	4
6	1108	2103	1102	testy	4

## 7.4 Delivery Boy Module:-

- Sign in Using Delivery Boy:-



- Delivery Boy Dashboard:- (Delivery Boy change the Order Status)



## **8.TESTING**

### **8.1 Introduction:-**

Testing is the method of checking whether the software is performing the given task successfully as expected or not. The expected speed, performance, accuracy and expected time should be taken into consideration while testing. A system should always be tested thoroughly before implementing it, as regards its individual programs, the system as a whole user acceptance etc. This is because implementing a new system is a major job which requires a lot of man hour and a lot of other resources, so an error not detected before implementation may cost a lot. Effective testing early in the process translates directly into long term cost savings from reduced number of errors. This is also necessary because in some cases, a small error is not detected and corrected before installation, which may explode into much larger problem.

Programming and testing is followed by the stage of installing the new system. Actual implementation of the system can begin at this point either using a parallel or a direct change over plan or some blend of two. Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and coding. The purpose of product testing is to verify and validate the various work products viz. units, integrate units, final product to ensure that they meet their respective requirements.

### **8.2 Testing Objectives:-**

The testing objectives are summarized in the following three steps:

- 1) Testing is a process of executing a program with the intent of finding an error.
- 2) A good test case is one that has a high probability of finding an as yet undiscovered error.
- 3) A successful test is the one that uncover an as yet undiscovered error. And do so with a minimum amount of time and effort. Our objective is to design tests that systematically uncover different classes of errors

### **8.3 Testing Methods:-**

#### **1. Unit Testing:-**

- Unit testing focuses verification effort on the smallest unit of software design (i.e.), the module.
- In this project there are different modules like login, jobseeker, job provider etc. each module has been tested by giving different sets of input. When developing the module as well as finishing the development, the module works without any error. The inputs are validated when accepting them from the user.

## **2. Integration Testing:-**

- After unit testing we have to perform integration testing. The goal is to see if modules can be integrated then it work properly.
- In this project main system is form by integrating all the modules. When integrating all the modules I have checked when by giving different combination of inputs with which the two services run perfectly before integration.

## **3. Validation Testing:-**

- At the end of Integration Testing, software is completely assembled as a package, interfacing errors have been uncovered and correction testing begins.
- In this project I have done the validation testing by providing incorrect input like in mobile number field enter alphabets, check mobile no within range or not, password and confirm password match or not.

## **4. Compatibility Testing:-**

- Compatibility of your web site is very important testing aspect. See which compatibility test to be executed:
- Browser compatibility
- Operating system compatibility

## **5. Acceptance Testing:-**

Acceptance test is performed with realistic data of the customer to demonstrate that the software is working satisfactorily. Testing here is focused on external behavior of the system the internal logic is not emphasized.

In this project “Customer Support System” I have collected some data and tested whether project working correctly or not.

The testing phase is an important part of software development. It is the process of finding errors and missing operation and a complete verification to determine whether the objectives are met and the user requirements are satisfied.

### **5.1 White Box Testing:-**

This is a unit testing method where a unit will be taken at time and tested thoroughly at a statement level to find the maximum possible errors. I tested step wise every piece of code, taking care that every statement in the code is executed at least once. The white box testing is also called Glass Box Testing.

I have generated a list of test cases, sample data. Which is used to check all possible combinations of execution paths through the code at every module level

### **5.2 Black Box Testing:-**

This testing method considers a module as a single unit and checks the unit at interface and communication with other modules rather getting into details at statement level. Here the module will be treated as a black box that will take some input and generate output. Output for a given set of input combination are forwarded to the modules.

## **6. Security Testing:-**

- Test by pasting internal url directly into browser address bar without login. Internal pages should not open.
- Try some invalid inputs in input fields like login username, password, and input text boxes. Check the system reaction on all invalid inputs.

## **7. Tools used:-**

Manual testing is the process of manually testing software for defects. We have carried out manual testing to find out the defects and bugs in the application, we have played the role of end user and use most of all features of the application to ensure correct behavior. To ensure completeness of testing, we have often follows a written test plan that leads them through a set of important test cases.

## **8. GUI Testing:-**

The GUI testing (Graphical User Interface) testing are important testing guidelines for specialized environments, architectures and all application that are commonly encountered by all the software engineer. Because of the reusable components, provided as the part of the GUI development, environments, the creation of the interface has become less time consuming and more precise. But the complexity of all GUIs has also grown leading to more difficulty in a design and execution of the test cases. As modern GUIs have same look, and feel series of standard test can be derived. In GUI testing, checklist was developed against which each GUI component to be derived. The list covered all possible interaction that may or may not apply to a particular component. In addition to the GUI components, the GUI standards were also used to ensure that the internal rules of construction are followed to achieve the desired level of the consistency. This was done, by following the coding standards, which was developed during the designing phase.

Some of the GUI standard which was verified is:

- 1.Forms enterable and display only formats.
2. Wording of alerts, error messages and help features.
3. Screen layout.



Thus through the testing, a wide range of errors were encountered which enables us to understand the system as well broadened our knowledge of ASP.Net language.

## **9. Platform testing:-**

- For web-application, platform testing means four main points, viz.
- Web forms display correctly on all supported browsers and supported versions of those browsers.
- The web application appropriately handles unsupported browser versions,
- Such as displaying instructions for downloading the required version.
- The client is prompted to install any required components, such as ActiveX objects or plug-ins, if they are not already installed. The web application has acceptable performance over slower forms of network connections such as Modems.

## **8.4 Test Strategy:-**

A test strategy is an outline that describes the testing approach of the software development cycle. The purpose of a test strategy is to provide a rational deduction from organizational, high-level objectives to actual test activities to meet those objectives from a quality assurance perspective. The creation and documentation of a test strategy should be done in a systematic way to ensure that all objectives are fully covered and understood by all stakeholders. It should also frequently be reviewed, challenged and updated as the organization and the product evolve over time. Furthermore, a test strategy should also aim to align different stakeholders of quality assurance in terms of terminology, test and integration levels, roles and responsibilities, traceability, planning of resources, etc.

Test strategies describe how the product risks of the stakeholders are mitigated at the test-level, which types of testing are to be performed, and which entry and exit criteria apply. They are created based on development design documents. System design documents are primarily used, and occasionally conceptual design documents may be referred to. Design documents describe the functionality of the software to be enabled in the upcoming release. For every stage of development design, a corresponding test strategy should be created to test the new feature set

## **8.5 Unit test Case Plan:-**

### **• Introduction:-**

The release of DMS v 1.0 will have following new key features:

1. Data gathering & migration.
2. New Multi-Role Feature.
3. Database configuration for setting UI.
4. Database configuration for field level access.
5. Alerts.

6. Requisition work flow.

7. Insurance work flow.

- **Environment Requirements:-**

Internet connectivity.

Browser should be either Internet Explorer 4.0 or Firefox, or Google chrome.

Monitor resolution should be set to a minimum 1024X768, or set optimally to 1152X864.

- **Test Schedule:-**

Functionality Test

Performance Test

Regression Test

- **Control Procedures**

**Reviews:-**

The project team will perform reviews for each Phase, (Le. Requirements Review, Design Review, Test Plan Review, Test Case Review and Final Test Summary Review). A meeting notice, with related documents, will be emailed to each participant.

**Bug Review meetings:-**

Regular weekly meeting will be held to discuss reported defects. The development team will provide status/updates on all defects reported and the test department will provide addition defect information if needed.

**Defect Reporting:-**

When defects are found, the testers will complete a defect report on the visible (defect tracking system). The defect tracking system is accessible by testers, developers & all members of the project team. When a defect has been fixed or more information is needed, the developer will change the status of the defect to indicate the current state. Once a defect is verified as FIXED by the testers, the testers will close the defect.

- **Functions to Be Tested:-**

The following is a list of functions that will be tested:

1. Data gathering & migration.
2. New Multi-Role Feature,
3. Database configuration for setting UI.
4. Database configuration for field level access.
5. Alerts.
6. Requisition work flow

- **Resources and Responsibilities:-**

The Test Lead and DIC (Delivery in Charge) will determine when system test will start and end. The Test lead will also be responsible for coordinating schedules, equipment, & tools for the testers as well as writing/updating the Test Plan, Weekly Test Status reports and Final Test Summary report. The testers will be responsible for writing the test cases and executing the tests.

**Resources:-**

the test team will consist of:

- 1 Test Lead
- 2 4 Testers

**Responsibilities:-**

DIC:	Responsible for Project schedules and overall success of the project
Test Lead :	Ensures the overall success of the test cycles. He/she will coordinate weekly meetings and will communicate the testing status to the project team.
Testers :	Responsible for performing the actual system testing.

## 8.6 TEST CASE:-

Test Id	Item to be Tested	Steps	Input	Actual Output	Expected Output	Pass/Fail
1	Verify Email id	User Enter email	Email	If email is already exist then success	success	Pass
2	System check for Proper username And password entered by users	System compares The data Entered by User and the data in The database				
		If username And Password is		valid	valid	valid

		valid				
		If username And Password is invalid		Report invalid User id and password	Report error	Pass
3	System checks Whether details Of user are entered as per the format	System checks the data entered by user is in valid form or not				
		If valid	User enter the data	Inserted Successfully	Inserted Successfully	Pass
		If invalid	User enter the data	“Invalid Data” Message Will be display	“Invalid Data” Message Will be display	Pass
4	To Check valid user or not	Enter the Data				
		If valid user		Logged in	Success	Pass
		If invalid user		Not valid user	Failed	Pass
5	To check Add product	Enter the valid data		Valid	Valid	Valid
		Enter the invalid		Invalid	Invalid	Invalid
6	To checked bidding placed or not	Enter the bid price		stored	stored	pass
		Enter the characters		Display error	Display	Pass

## **9 Steps of Execution:-**

Test Data for User Name & Password text box:

1. Enter Username & Password in the text fields.
2. Record the result - "If the username text & Password fields are empty and an appropriate error message is displayed then remark it as 'Pass' else 'Fail'.
3. Record the result- "If the username text field is invalid and rejected then remark it as 'Pass' else "Fail".
4. Record the result- "If the username text field is valid and accepted remark it as 'Pass' else 'Fail'".

## **10 Test Data for Password text box:-**

1. Enter Username in the text field.
2. Check whether password characters are only shown as wild card characters.
3. Record the result - "If the password text field is empty and an appropriate error message is displayed then remark it as 'Pass" else "Fail'.
4. Record the result- "If the username text field is invalid and rejected then remark it as 'Pass' else 'Fail'.
5. Record the result- "If the username text field is valid and accepted remark it as 'Pass' else "Fail'.

## **11 Test Data for Submit Button:-**

1. Click on submit button.
2. Record result- "If the user id and password is verified and it logs into the system then remark it as 'pass' else "fail".

## 9.LIMITATIONS OF PROPOSED SYSTEM

### ➤ **Constrains:-**

#### ▪ **Technical Constraints:-**

- User must have a basic Knowledge of English.
- User Should Have Basic Computer Knowledge.

#### ▪ **Environmental Constraints:-**

- The Project depends on printers to print invoice bill.

#### ▪ **Time Constraints:-**

- Project Development time is limited to 2-3 Months.

### ➤ **Limitations: -**

- If Internet server down then users can't access this site.
- System build on Django platform because of that need dedicated server to run. Shard hosting does not provide Support Python Projects.
- Need Good internet Connection to Access.
- Data security issue due to cyber-attacks.

## **10.FUTURE SCOPE**

Although the project has been completed and able to overcome the problem of the study, even if some problems are solved by this project and still problems and requirement are not implemented by this project which can be solved in upcoming future days. Some of the future enhancements of this project are:

- More interactive user interface can be added.
- Module that allows for the printing of sales report, dishes report can be added.
- Module that allows to tracking the customer location for delivery of foods can be added.
- Online Payment System like E-sewa, Khalti, mobile banking can be added.
- Others necessary module can be added

## **11.CONCLUSION**

Finally, in the Online Food Box Express, we have developed a secure, user-friendly Tiffin Management System. This System can take care of each member whether it is an Administrator or a Customer. This System will help them to properly manage the meals of the customers, the delivery boy's data, and help in growth without creating any hassle.

This system is completely secure since every user is provided with a user ID and Password so there is no chance of any unauthorized access. Online Payment, Registration, and cancellation make it easier to use. So, using this system will help in reducing the labor and provide more facility for Customers to like the services.



## 12.BIBLOGRAPHY

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- SQL Server The Complete Reference – by Gayle Coffman.

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- <https://www.w3school.com> :  
It gives information about all basic concepts of software development
- <https://www.wikipedia.com> :  
Wikipedia is platform where we get the basic knowledge of System.
- <https://www.youtube.com/watch?v=uaE6wprozII>
- <https://youtu.com/codewithharry>
- [Our Project Report \(Online Food Ordering\) | PDF | Use Case | Databases \(scribd.com\)](#)