



Savitribai Phule Pune University, Pune

A PROJECT REPORT ON

"Online Food Ordering System"

Submitted by

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&

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Bachelor of Computer Science

Under the Guidance of

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S.B.V.P.SAMAJ'S

SAHAKAR MAHARSHI BHAUSAHEB SANTUJI THORAT COLLEGE OF ARTS,

SCIENCE & COMMERCE SANGAMNER, AHMEDNAGAR – 422605

2023 – 2024



S.B.V.P.SAMAJ'S

**SAHAKAR MAHARSHI BHAUSAHEB SANTUJI THORAT
COLLEGE SANGAMNER**

Department of Computer Science

Project Report

Academic Year

2023 - 2024

CERTIFICATE

This certificate is awarded to Mr. **Yash Somanth Gorde** , Ms. **Gunjal Priya Shivaji** in appreciation of his meritorious performance in Project Title on “**Online Food Ordering System**” as part of practical requirement of Savitribai Phule Pune University during Academic Year 2023-2024.

Mr. Thakare M.V

(H.O.D)

Internal Examiner

Mr. Thorat D.S

(Project Guide)

External Examiner

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1.1 INTRODUCTION

Online food ordering is the process of ordering food from a website. The product can either be food that has been specially prepared for direct consumption (such as vegetables straight from a farm or garden, frozen meats, etc.) or food that has not been (such as direct from a certified home-kitchen, restaurant). The effort to create an online food ordering system aims to replace the manual method of taking orders with a digital one. The ability to rapidly and correctly create order summary reports whenever necessary is a key factor in the development of this project. The potential of an online food ordering system is enormous. Any restaurant or fast food chain can use this PHP project to keep track of customer orders. This project is simple, quick, and precise.

There is less disk space needed. POSTGRESQL is used as the backbone by the online food ordering system, eliminating the risk of data loss and ensuring data security. Customers have the option of either having the food delivered or picked up. A customer starts by selecting the restaurant of their choice, then scans the menu, picks an item, and then decides whether they want it delivered or picked up. Then, when picking up the food, you can pay with cash at the restaurant or with a credit card or debit card using the app or website. The customer is informed by the website and app about the food's quality, how long it takes to prepare, and when it will be ready for pick-up or delivery.

1.2 SCOPE OF THE SYSTEM

Certainly, here's a breakdown of the scope of a typical online food ordering system project by point

User Registration and Authentication:-

Allow users to create accounts and log in securely.

Menu Browsing:-

Provide users with a searchable and filterable menu of available food items from various restaurants.

Order Placement:-

Enable users to add items to their cart, specify quantity, customize orders (e.g., toppings, preferences), and proceed to checkout.

Payment Processing:-

Integrate payment gateways to securely process payments for orders using various methods such as credit/debit cards, digital wallets, or cash on delivery.

Order Tracking:-

Provide real-time updates on the status of orders, including confirmation, preparation, and delivery.

Restaurant Management:-

Allow restaurants to manage their menus, update availability, and view incoming orders.

Admin Dashboard:-

Provide administrators with tools to manage users, restaurants, orders, and resolve disputes if any.

Promotions and Discounts:-

Implement features for offering discounts, promo codes, and special deals to attract customers.

1.3 OBJECTIVE

Developing an objective online food delivery system project involves several key steps:

1. Requirement Analysis:- Understand the requirements of the system, including user roles, features, and functionalities.
2. system Design:- Design the architecture of the system, including databases, backend, frontend, and APIs.
3. Database Design:- Design the database schema to store user data, restaurant details, menu items, orders, and transactions.
4. User Authentication: Implement user authentication and authorization mechanisms to ensure secure access to the system.
5. Restaurant Management:- Develop features for restaurants to manage their profiles, menus, and orders.
6. Order Management:- Implement features for users to browse restaurants, place orders, and track order status.
7. Payment Integration: Integrate payment gateways to facilitate secure online payments for orders.
8. Delivery Management:- Implement features for delivery personnel to accept and fulfill orders.
9. User Interface:- Design and develop intuitive user interfaces for web and mobile platforms.

1.4 FEATURES

Some key features of an online food ordering system project include:

1. Order placement and tracking: Let users place orders and track their status in real-time.
2. Payment integration: Support various payment methods securely, such as credit/debit cards, mobile wallets, or cash on delivery
3. Reviews and ratings: Allow users to rate and review restaurants and dishes to help others make informed decisions.
3. Notifications: Send timely notifications to users about order status updates, promotions, or special offers.
4. Customer support: Provide assistance through various channels like chat, email, or phone for any issues or inquiries.
5. Loyalty programs: Implement loyalty programs or rewards systems to incentivize repeat orders.
6. Admin dashboard: Offer an interface for administrators to manage users, restaurants, orders, and other aspects of the system.
7. Analytics and reporting: Provide insights into user behavior, sales trends, popular dishes, etc., to help optimize operations and marketing strategies.

2.1 FACT FINDING TECHNIQUE

Preliminary Investigation implies that which methods are applied to make online food ordering system and by which means information is collected regarding product. Generally there are three methods for collecting the information of any instruction.

These are:-

- 1) Interview
- 2) Questionnaires
- 3) Observations

All the methods are equally important. As far as this project is concerned and have to be collected all the information by following methods.

1) Interview :-

Interview is a nice method for communicating with people. We can understand views, attributes and members to get information about ordering system and facilities provided to staff and other attendance.

Online food is the one of the most important factor playing a master role in the success of any restaurant. In a manual system it is difficult to find specific customers' record in quick time. But by using an ordering system we will find his or her record immediately. Also find the customer details.

Firstly we visited the "online ordering website" and ask how they maintain the records.

How they order the stock, by identifying customer's requirement and how they maintain the customer and restaurant.

The information collected by their website from various categories that are related to system.

2) Questionnaires :-

I have asked following questions:-

What type of problems is occurs in existing system? What type of system is used to collect the data? Is there any facility for maintaining customer and restaurant of the customer?

How to update library status?

How to maintain students records?

How you maintain privacy?

3) Observations:-

This method is very lengthy. I also observed that there are more chances of mistakes because of manual process. This process is time consuming.

In this technique information collected through identifying customer;s requirement.

By getting information of latest version in market.

We find entity needed for the system and develop the system using this feasibility study and fact finding technique.

2.2 REQUIREMENT ANALYSIS

HARDWARE :

Hardware of Computer means all physical part consist of computer system H/W consist of input devices , CPU & OUTPUT Devices. For This System

RAM	4GB or Above
SSD	256 GB
PROCESSOR	Intel I7

SOFTWARE :

“Eclipse” provides a graphical environment. We design forms & control that become building block of our website. “Postgresql “ provides much facility to store our data safely

Operating System	Ubuntu 22.04 and Above
Language	JAVA 17
IDE	Eclipse IDE
DataBase	Postgresql 14

2.3 LANGUAGE

HTML(Hypertext markup Language)

CSS(Cascading Style Sheet)

Advance Java



HTML:-

It seems like you're asking about "HTML in details." HTML stands for Hypertext Markup Language, which is the standard markup language for creating web pages and web applications. It defines the structure and layout of a web document by using various tags and attributes to describe the content. If you have a specific question about HTML details or need further clarification, feel free to ask!

CSS(Cascading Style Sheet):-

CSS, or Cascading Style Sheets, is a style sheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MathML, etc.). CSS describes how elements should be rendered on screen, in print, or in other media.

Here's a breakdown of its key components:

1. Selectors: CSS selectors are patterns used to select the elements you want to style. They can target HTML elements, classes, IDs, attributes, or combinations thereof.
2. Properties: Properties are the stylistic attributes you apply to selected elements. Examples include color, font-size, width, height, margin, padding, etc.
3. Values: Values are assigned to properties and define how those properties should be applied. For example, color: red; sets the text color to red.
5. Cascading: CSS follows a cascading mechanism where multiple style sheets can influence the final style of an element. This includes inline styles, external style sheets, and browser default styles. Conflicts are resolved based on specificity and the order of precedence.

Advance Java:-

Advanced Java typically refers to more specialized topics and techniques beyond the basics of Java programming language. JSP (JavaServer Pages) and Servlets are two technologies often categorized under advanced Java.

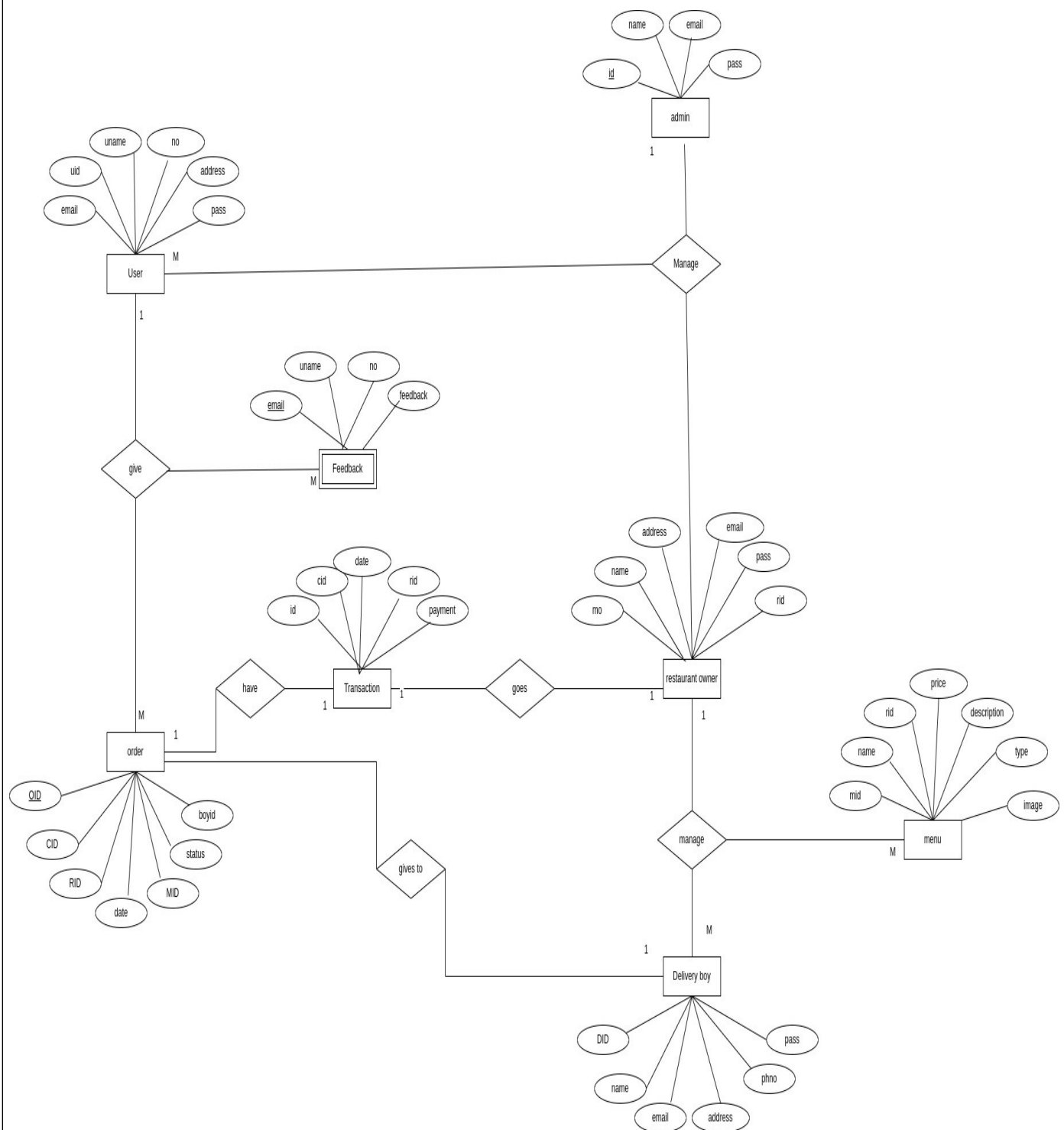
JSP (JavaServer Pages) is a technology that helps developers create dynamically generated web pages based on HTML, XML, or other document types. It allows Java code and certain predefined actions to be embedded into static content.

Servlets are Java programs that run on the server side, handling client requests and generating dynamic responses. They are used to extend the capabilities of web servers and provide a way to generate dynamic content.

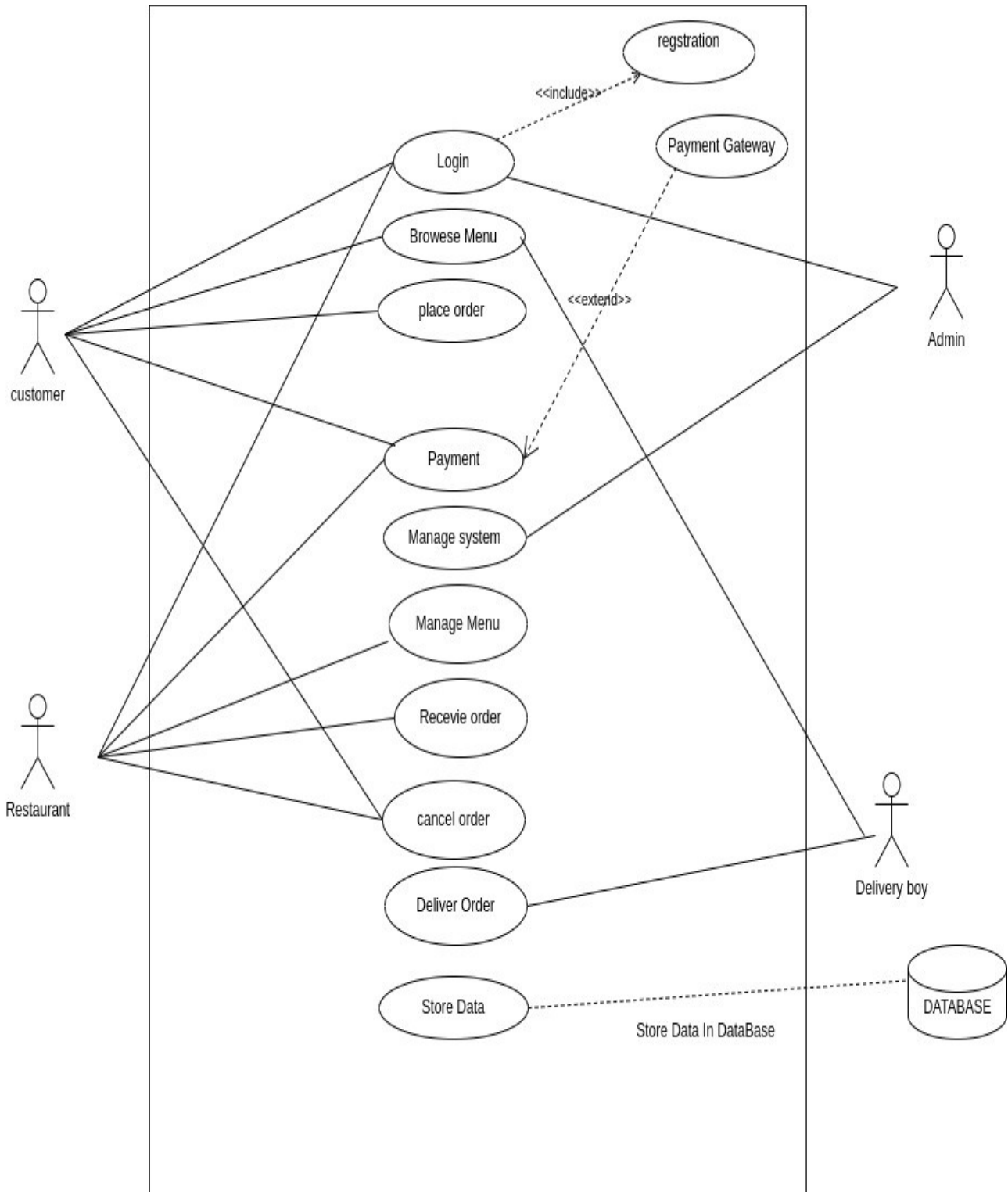
In essence, JSP and Servlets work together to create dynamic web applications. Servlets handle the logic and processing on the server side, while JSP allows for the creation of dynamic content by embedding Java code within HTML pages.

Understanding these technologies in detail involves learning about topics such as servlet lifecycle, request handling, session management, JSP syntax, JSP directives, JSP expressions, JSP scripting elements, and more. These technologies are commonly used in web development using Java.

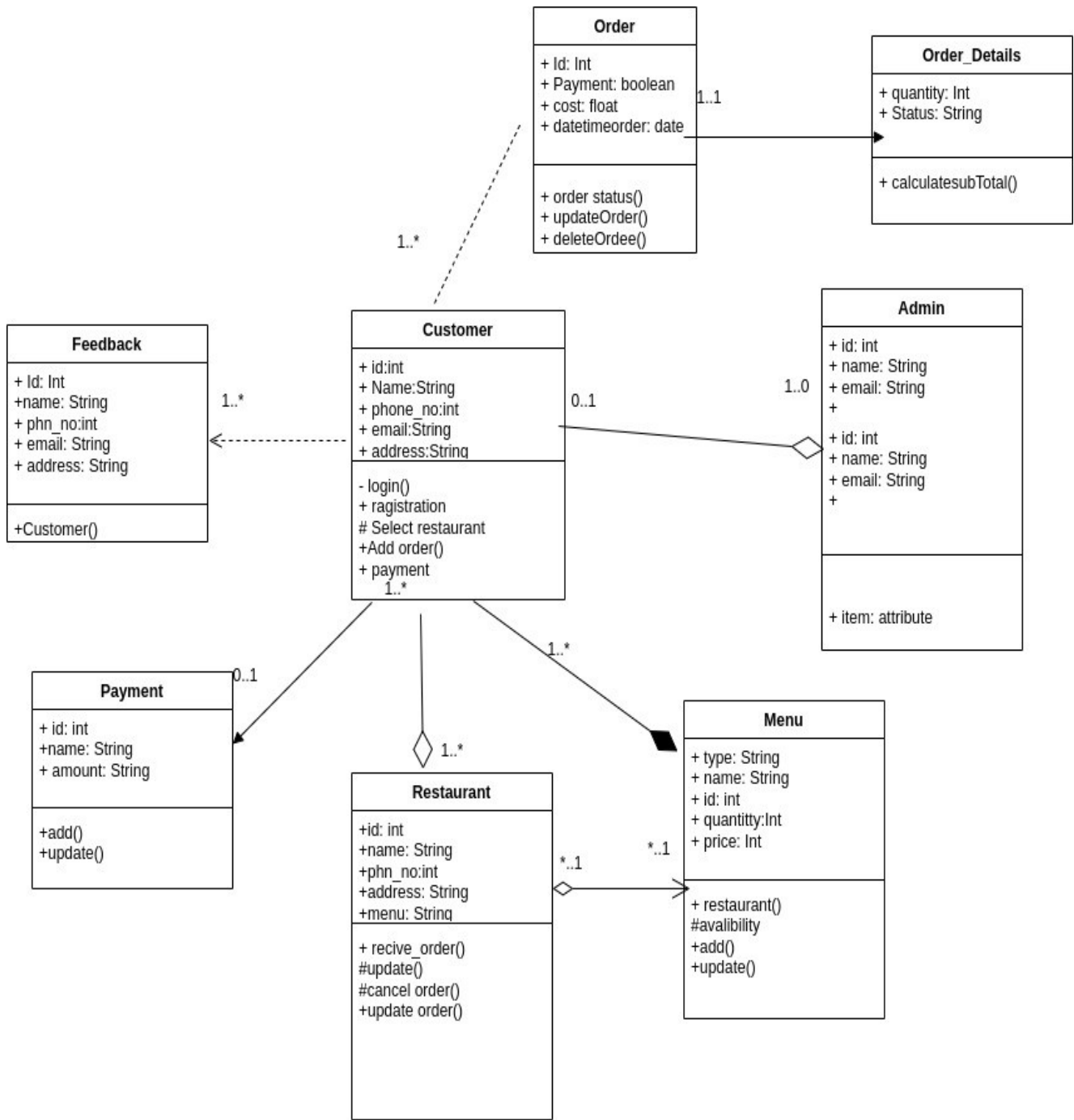
3.1 ENTITY RELATIONSHIP DIAGRAM



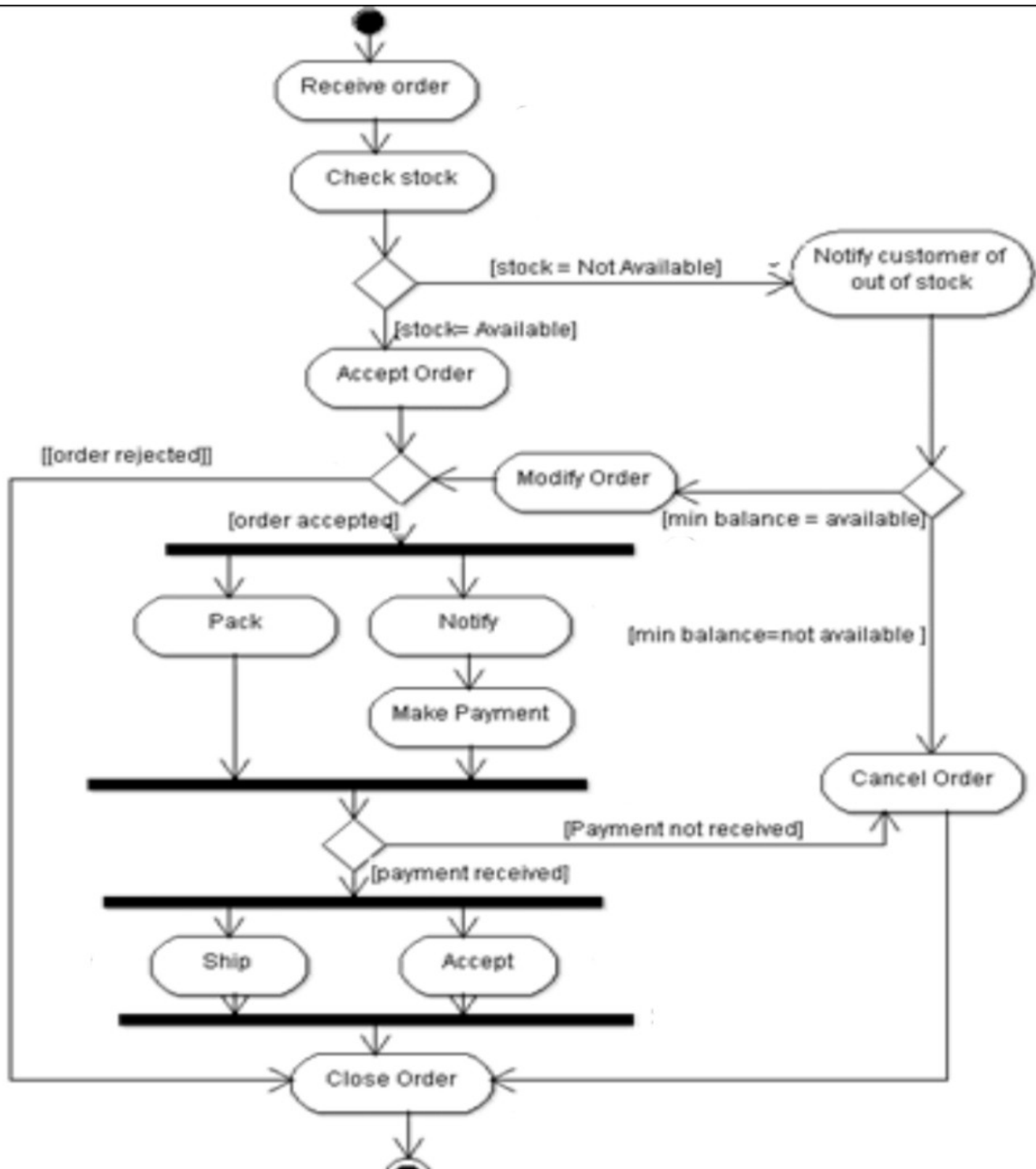
3.2 USE CASE DIAGRAM



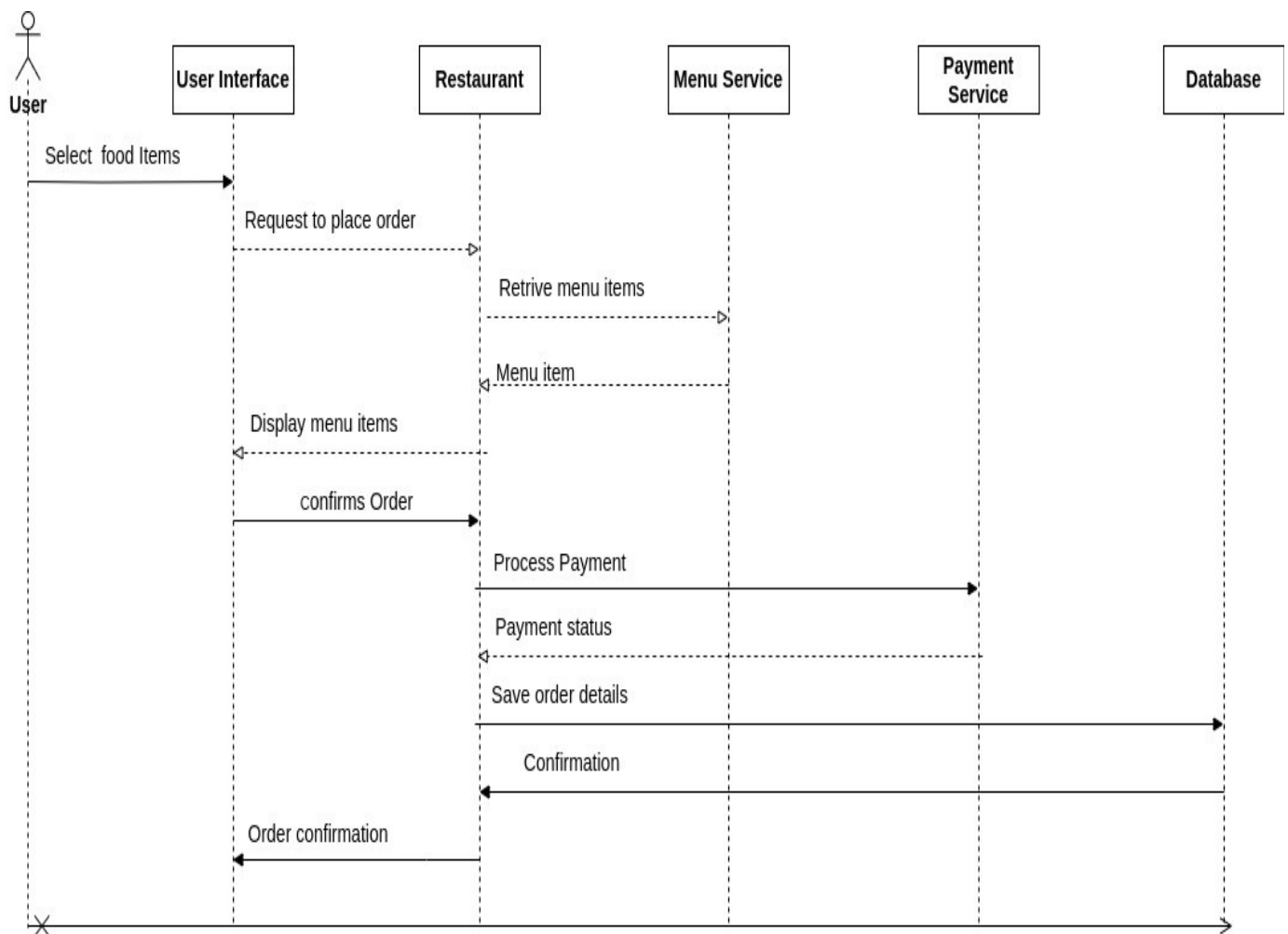
3.3 CLASS DIAGRAM



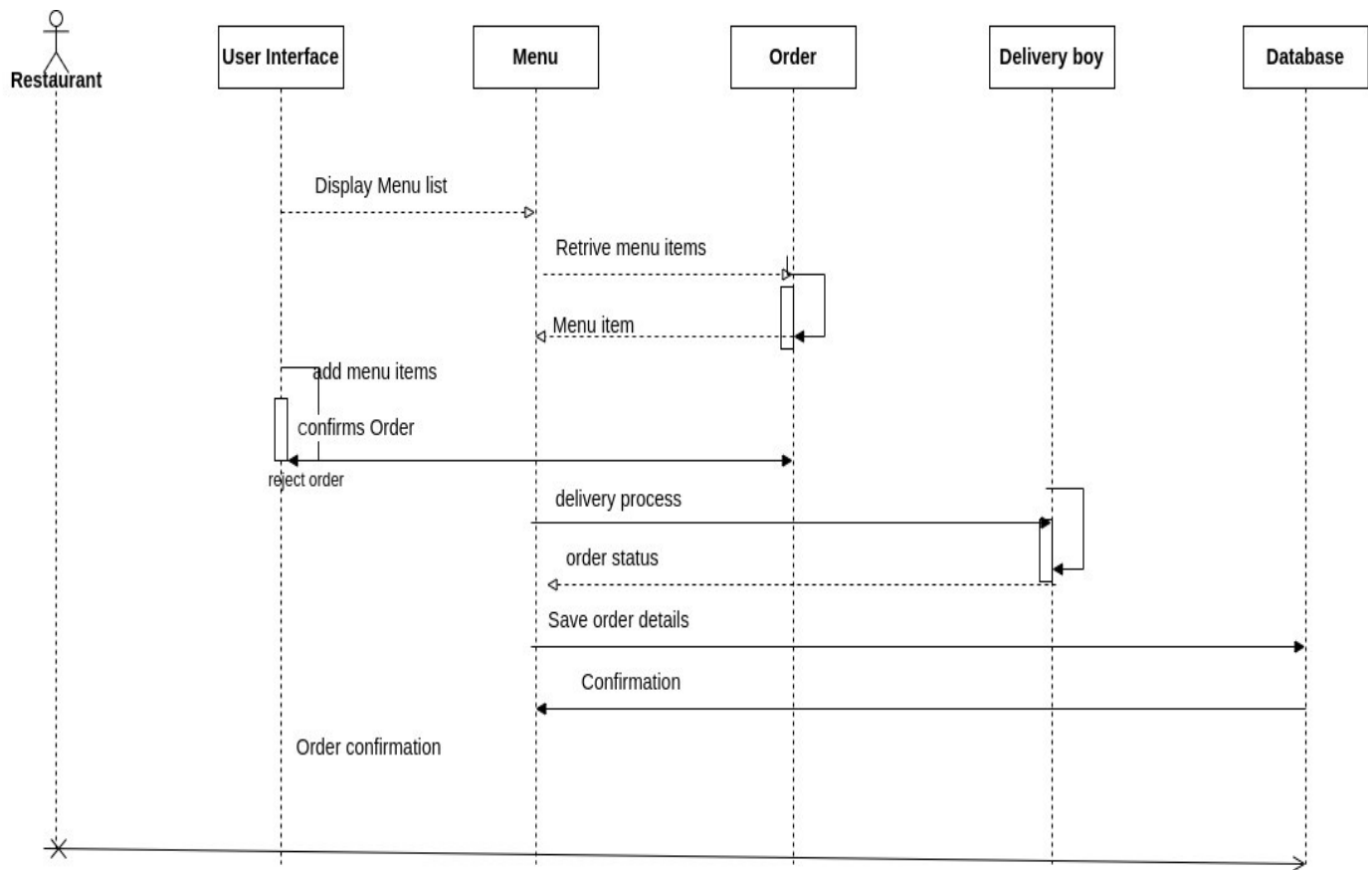
3.4 ACTIVITY DIAGRAM



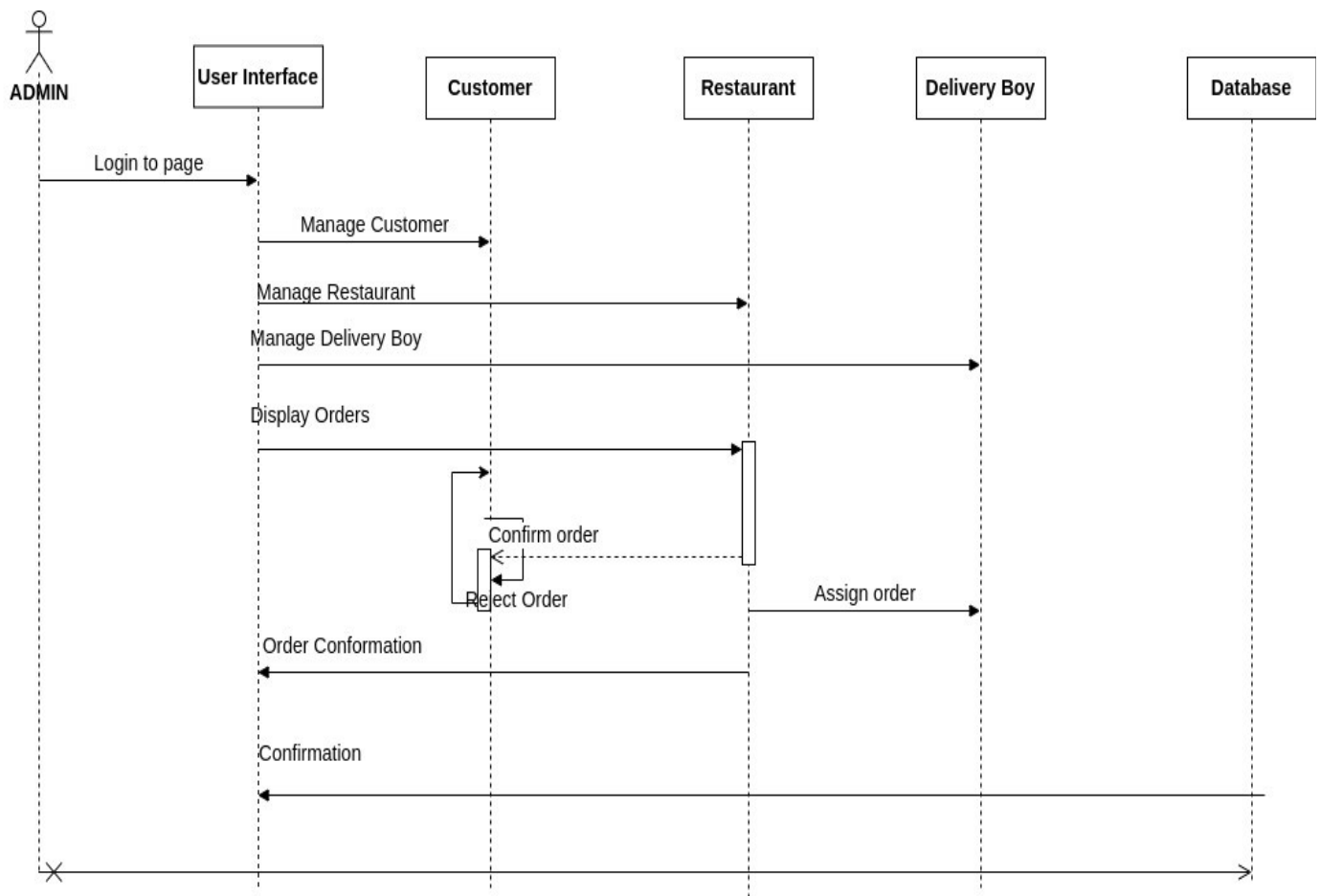
3.5 CUSTOMER SEQUENCE DIAGRAM



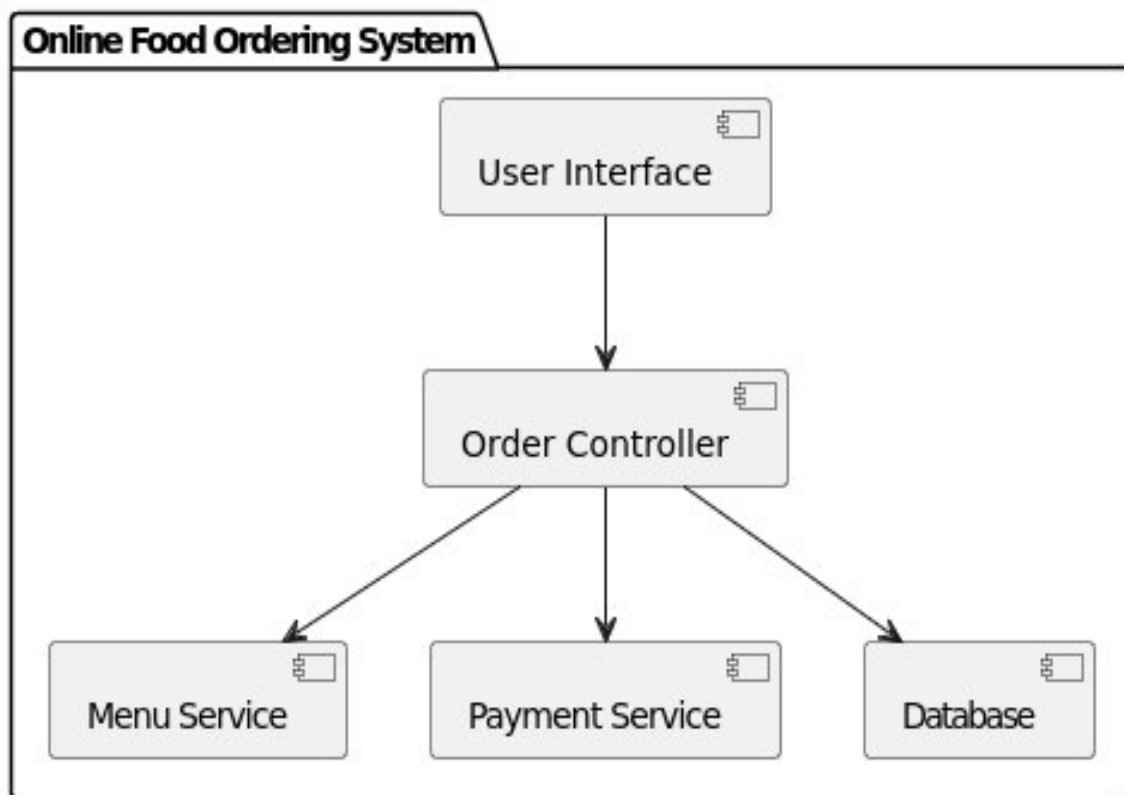
3.6 RESTAURANT SEQUENCE DIAGRAM



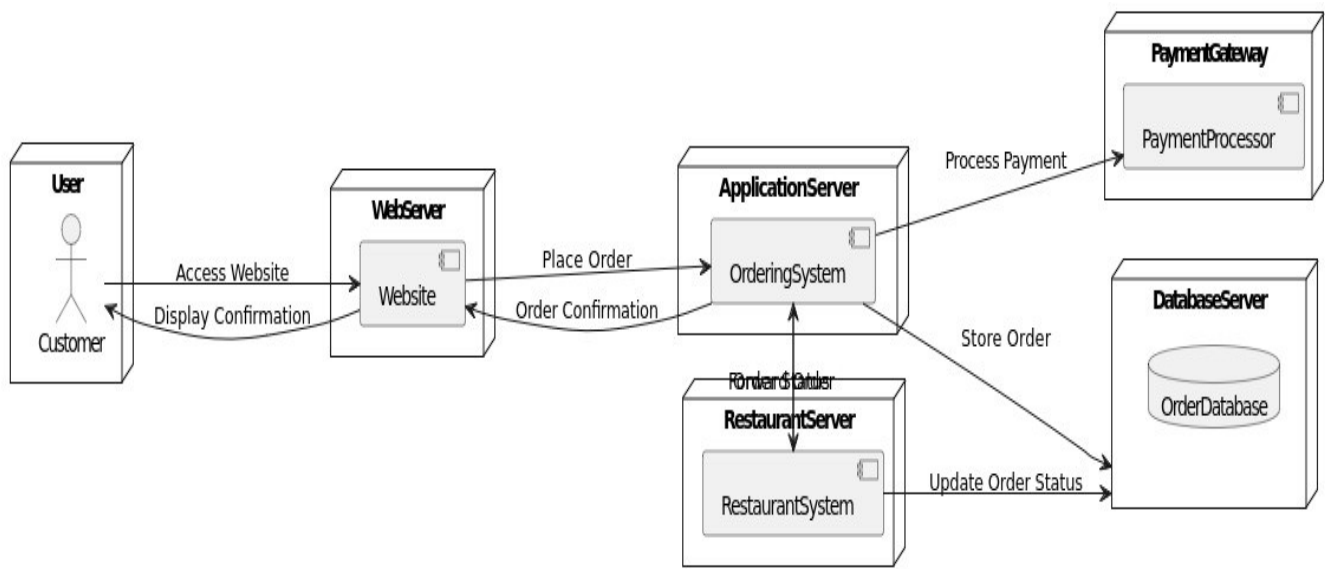
3.7 ADMIN SEQUEANCE DIAGRAM



3.8 COMPENENT DIAGRAM



3.9 DEPLOYMENT DIAGRAM



4.8 DATA DICTIONARY

admin

Column	Type	Null	Default	Description
aid	bigint	No	-	Primary key
name	varchar(255)	Yes	NULL	Admin Name
email	varchar(255)	Yes	NULL	Admin email
pass	varchar(255)	Yes	NULL	Admin Pass

deliveryboy

Column	Type	Null	Default	Description
did	bigint	No	-	Primary key
name	varchar(255)	Yes	NULL	Delivery Boy name
email	varchar(255)	Yes	NULL	Delivery Boy email
address	varchar(255)	Yes	NULL	Delivery Boy address
phno	varchar(255)	Yes	NULL	Delivery Boy phone no
pass	varchar(255)	Yes	NULL	Delivery Boy password

feedback

Column	Type	Null	Default	Description
name	varchar(255)	Yes	NULL	User Name
email	varchar(255)	Yes	NULL	User email
phno	varchar(255)	Yes	NULL	User phone no
feedback	varchar(255)	Yes	NULL	User Feedback
cid	int	Yes	NULL	User Id

orders

Column	Type	Null	Default	Description
cid	varchar(255)	Yes	NULL	Foreign key
rid	int	Yes	NULL	Foregin key
date	date	Yes	NULL	date
mid	int	Yes	NULL	Foregion Key
oid	bigint	No	-	Primary key
status	varchar(255)	Yes	NULL	Order Status
boyid	int	Yes	NULL	Delivery Boy Id

Restorunt_info

Column	Type	Null	Default	Description
rname	varchar(255)	Yes	NULL	Restorunt Name
address	varchar(255)	Yes	NULL	Restorunt Address
rno	varchar(255)	Yes	NULL	Restorunt Phone no
email	varchar(255)	Yes	NULL	Restorunt Email
pass	varchar(255)	Yes	NULL	Restorunt Password
rid	bigint	No	-	Primary key

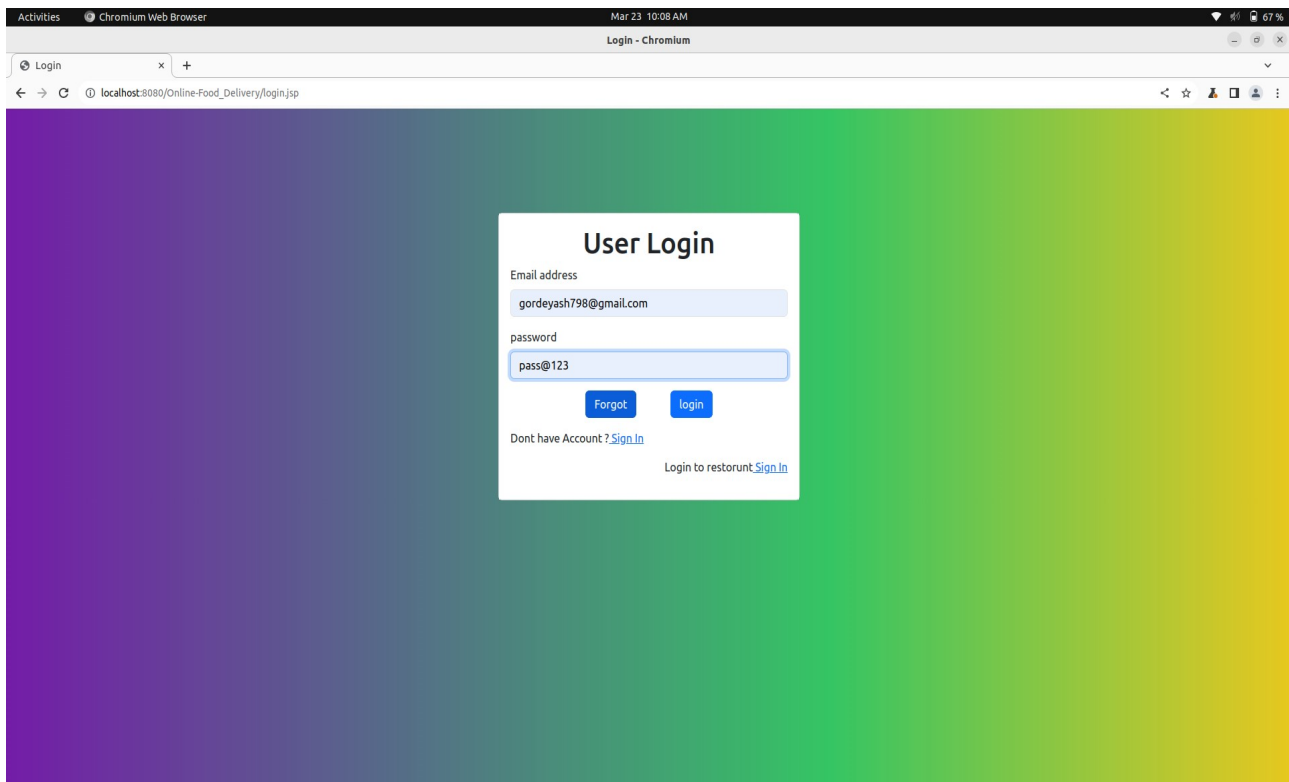
resto_menu

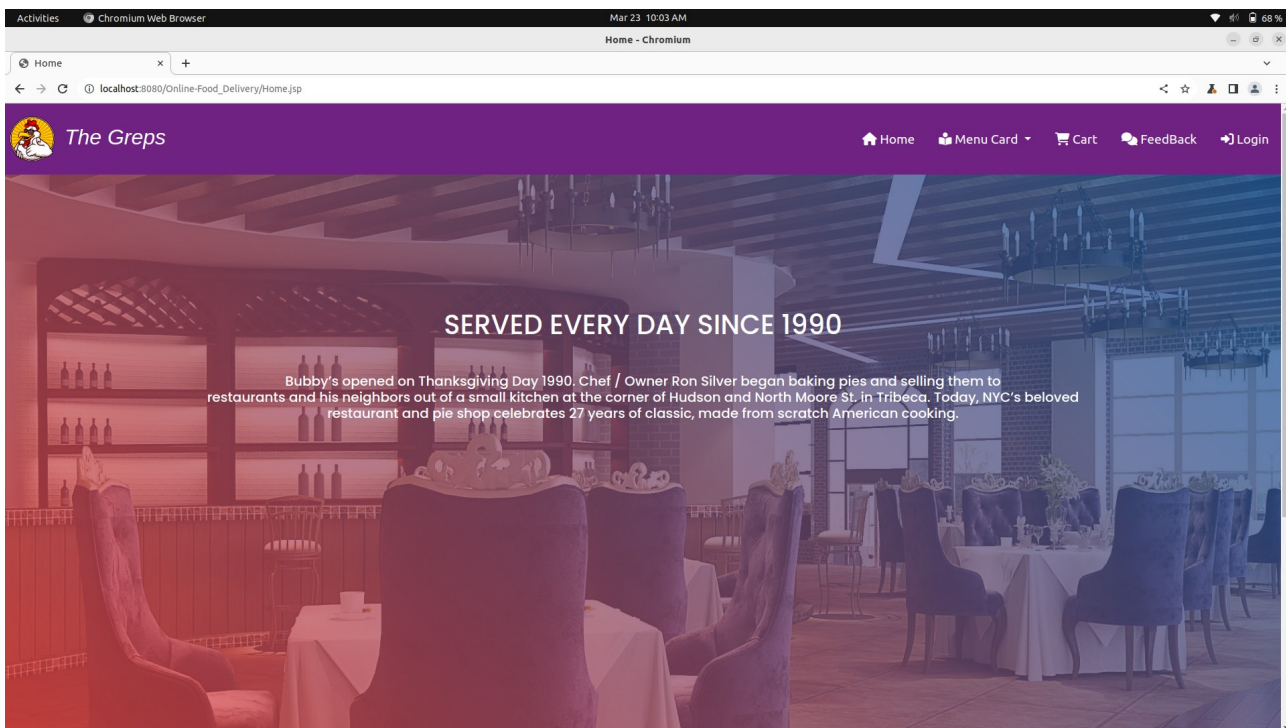
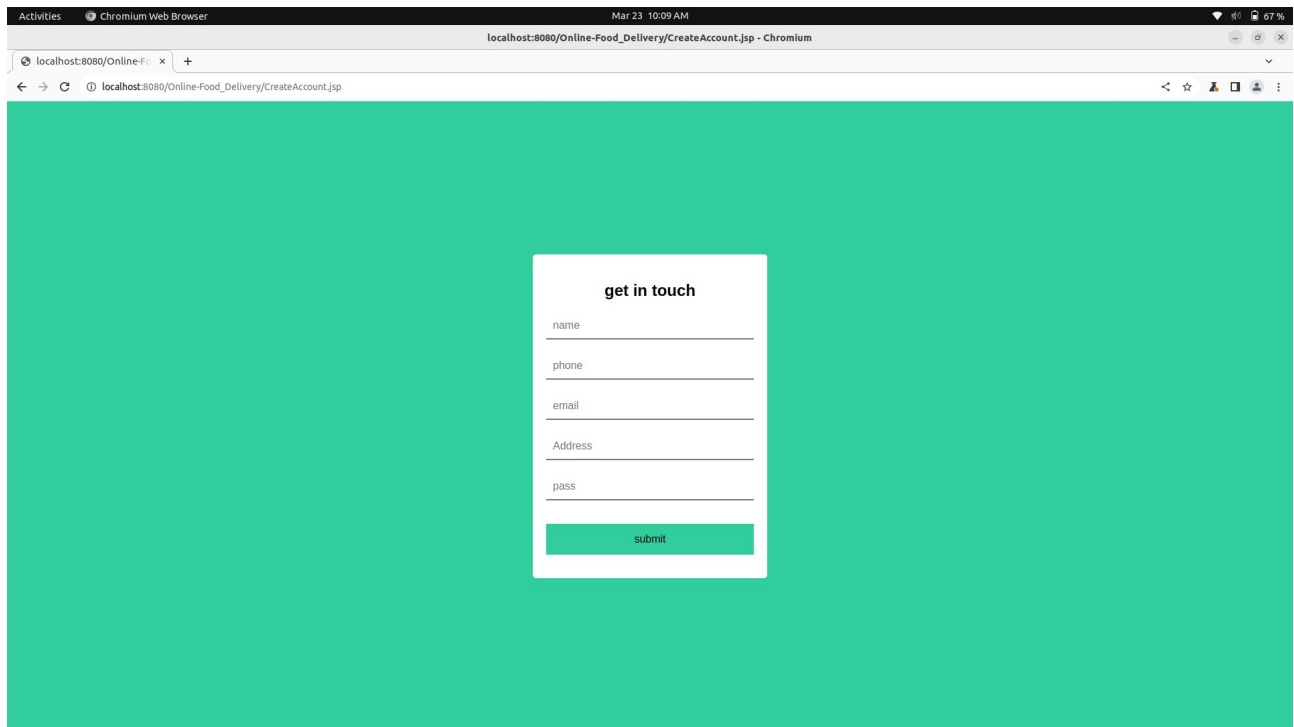
Column	Type	Null	Default	Description
mname	varchar(255)	Yes	NULL	Menu Item Name
price	varchar(255)	Yes	NULL	Menu Item Price
description	varchar(255)	Yes	NULL	Menu Item Description
type	varchar(255)	Yes	NULL	Menu Item Type
resto_id	int	Yes	NULL	Foregion Key
mid	bigint	No	-	Primary key
image	varchar(255)	Yes	NULL	Menu Item Image
discount	int	Yes	NULL	Descout On Item

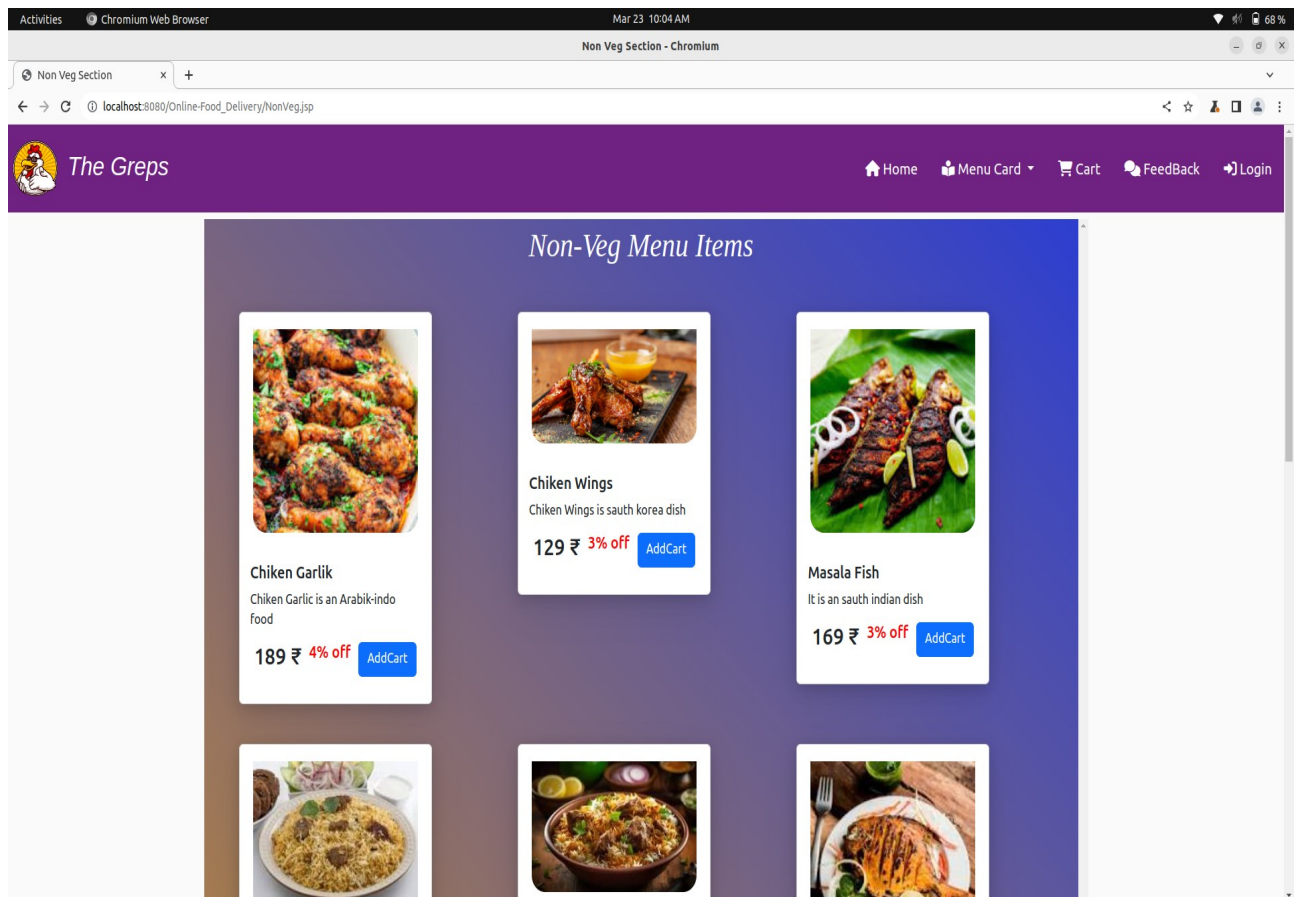
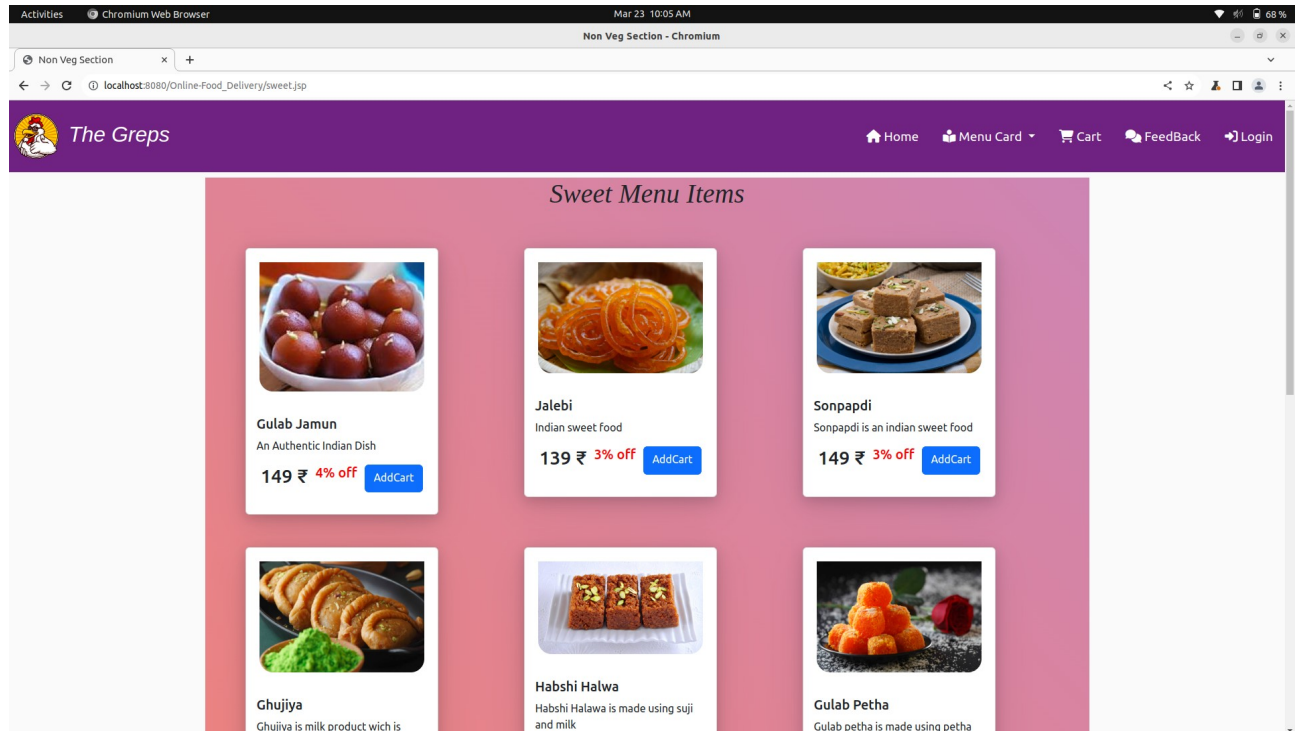
user_info

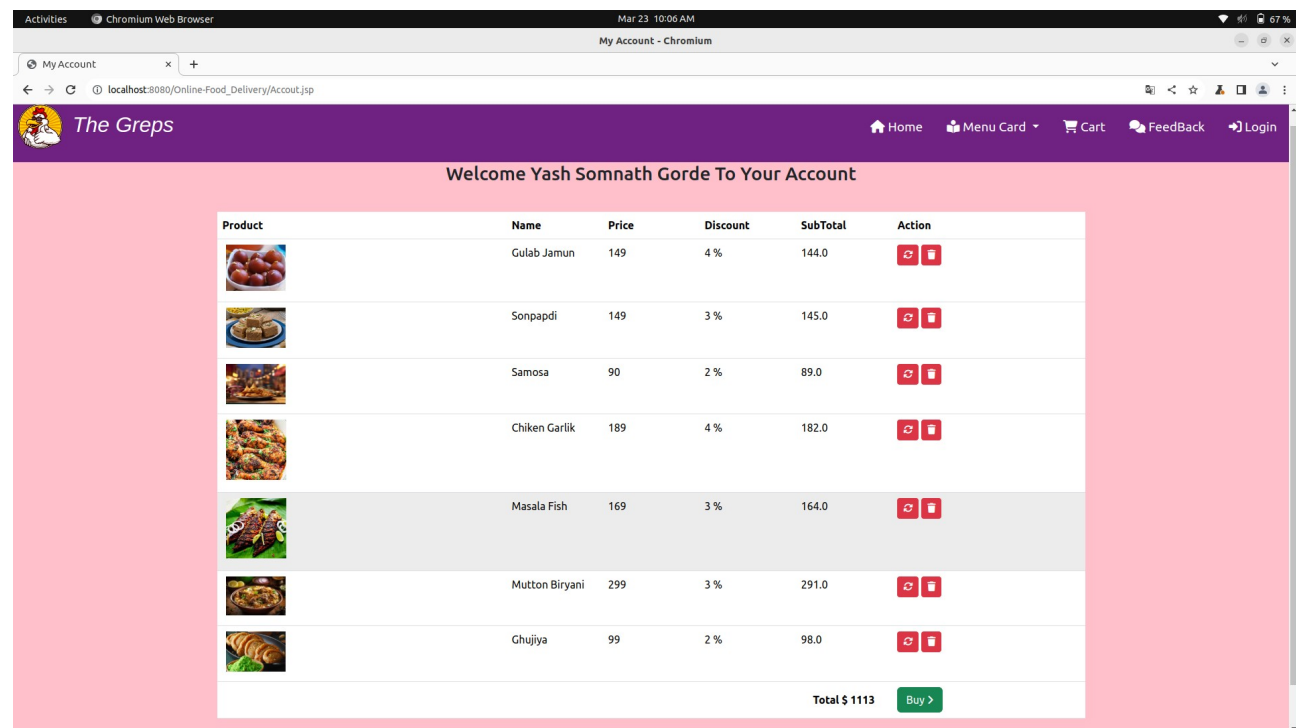
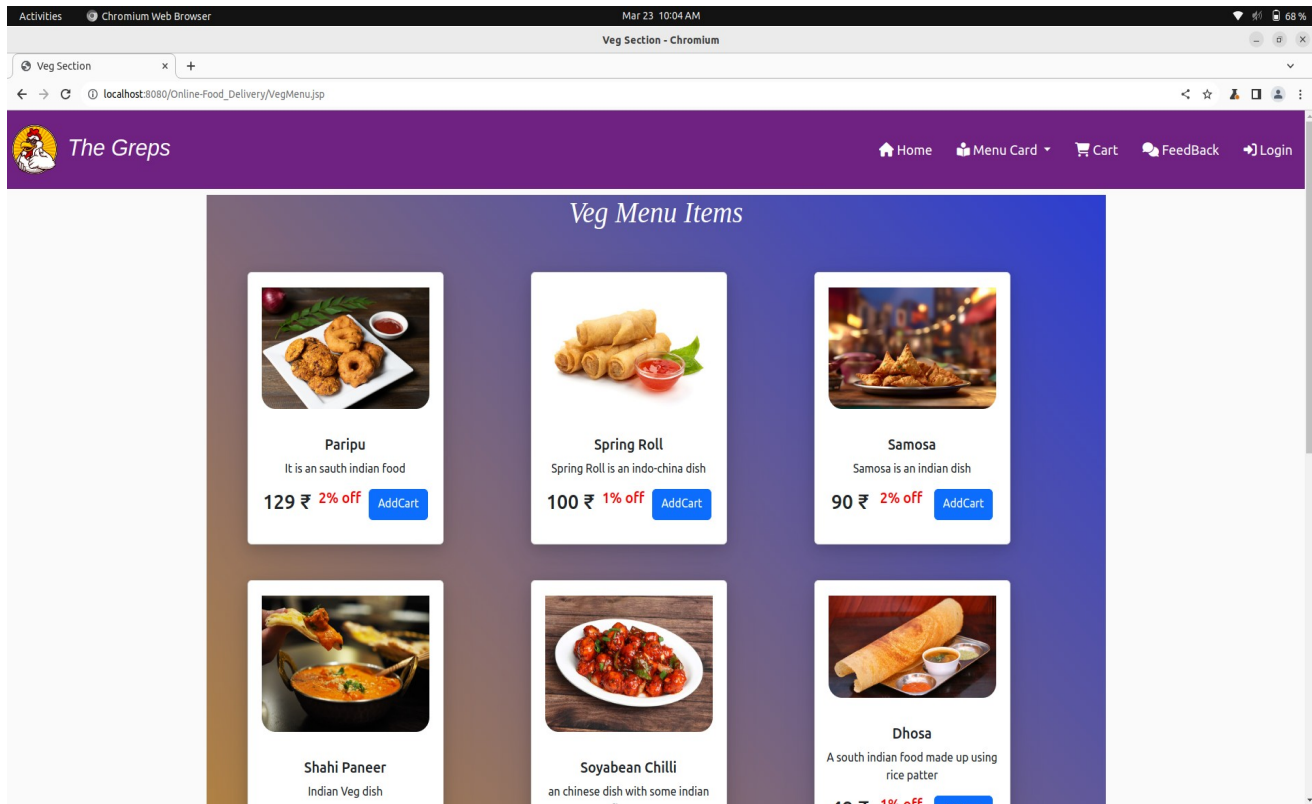
Column	Type	Null	Default	Description
uname	varchar(255)	Yes	NULL	User Name
email	varchar(255)	Yes	NULL	User Email
no	varchar(255)	Yes	NULL	User Phone no
address	varchar(255)	Yes	NULL	User address
pass	varchar(255)	Yes	NULL	User password
uid	bigint	No	-	Primary Key

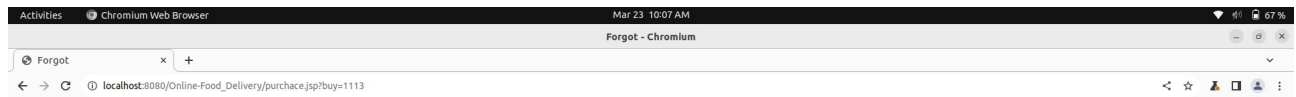
5.1 USER INTERFACE









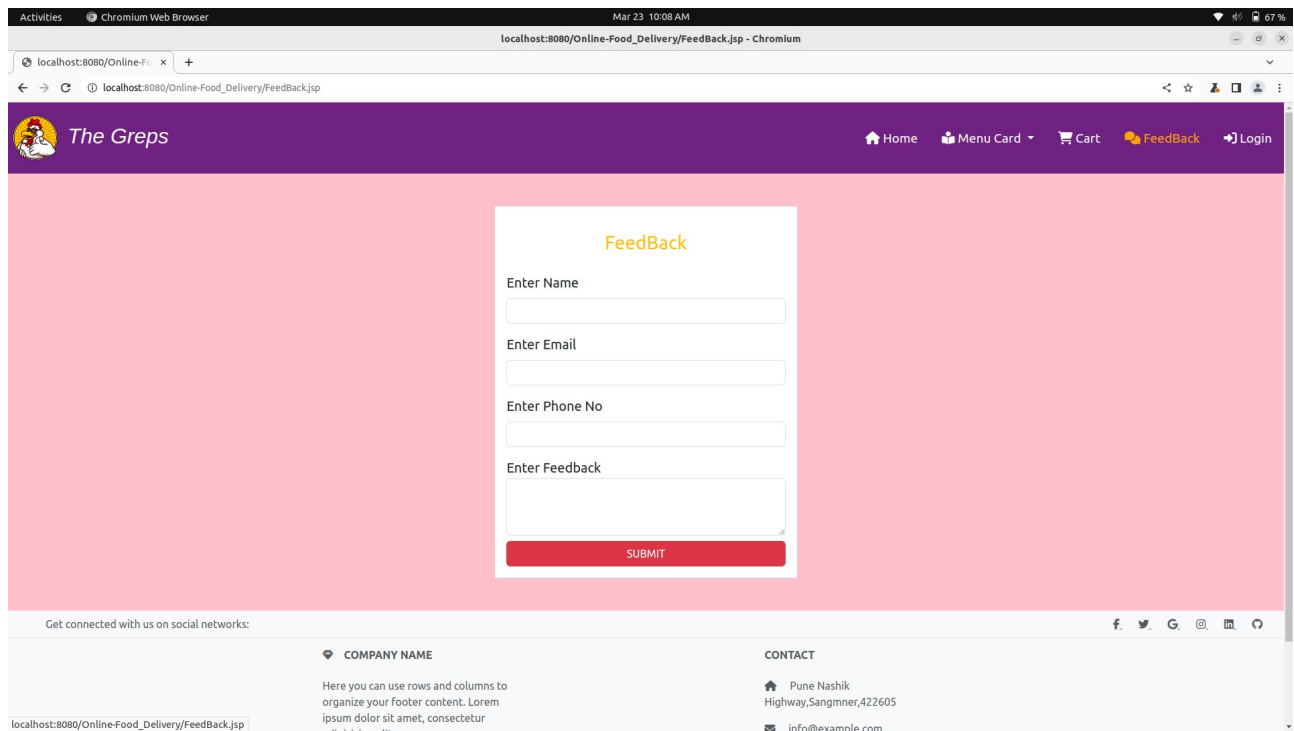


BILLING

Your items :

Product Name	Product Price
Gulab Jamun	144.0 ₹
Sonpapdi	145.0 ₹
Samosa	89.0 ₹
Chiken Garlik	182.0 ₹
Masala Fish	164.0 ₹
Mutton Biryani	291.0 ₹
Ghujiya	98.0 ₹
Total Bill Pay	1113 ₹

CancelPurchase



ActivitiesChromium Web Browser


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67%

My Account - Chromium

My Account

localhost:8080/Online-Food_Delivery/Account.jsp


The Greps

[Home](#)
[Menu Card](#)
[Cart](#)
[FeedBack](#)
[Login](#)

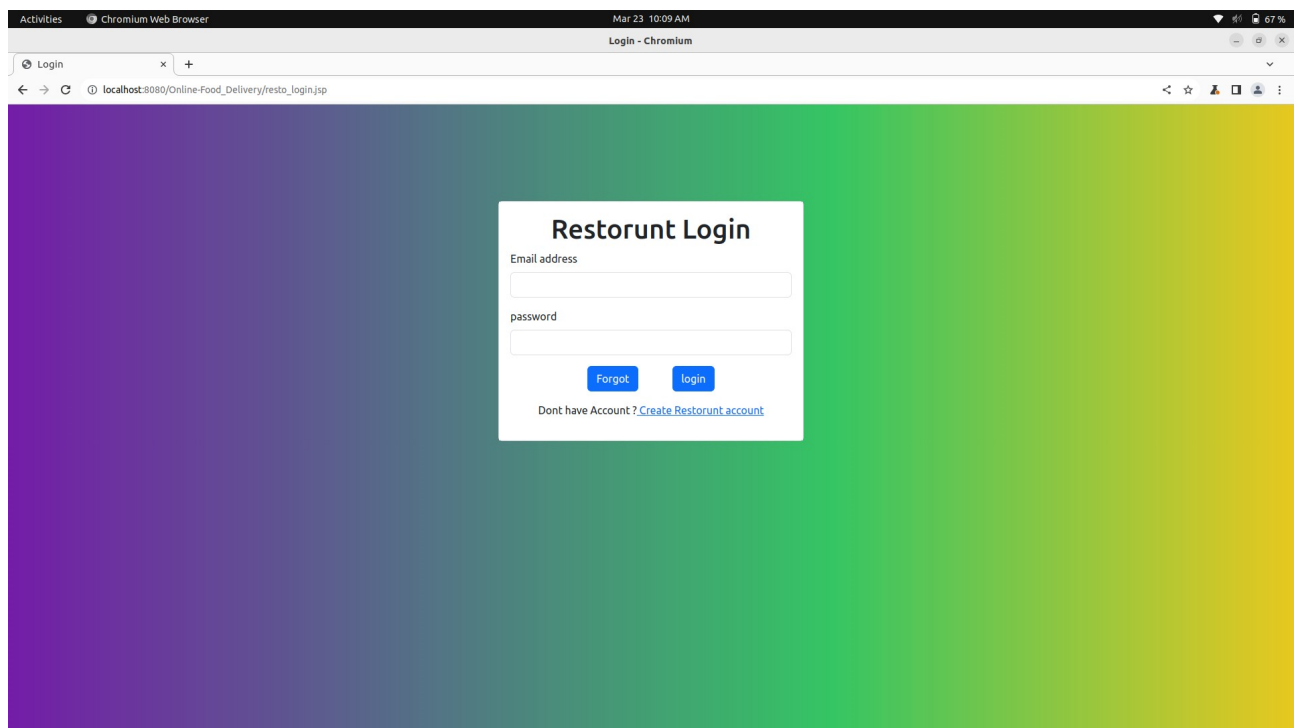
Welcome Yash Somnath Gorde To Your Account

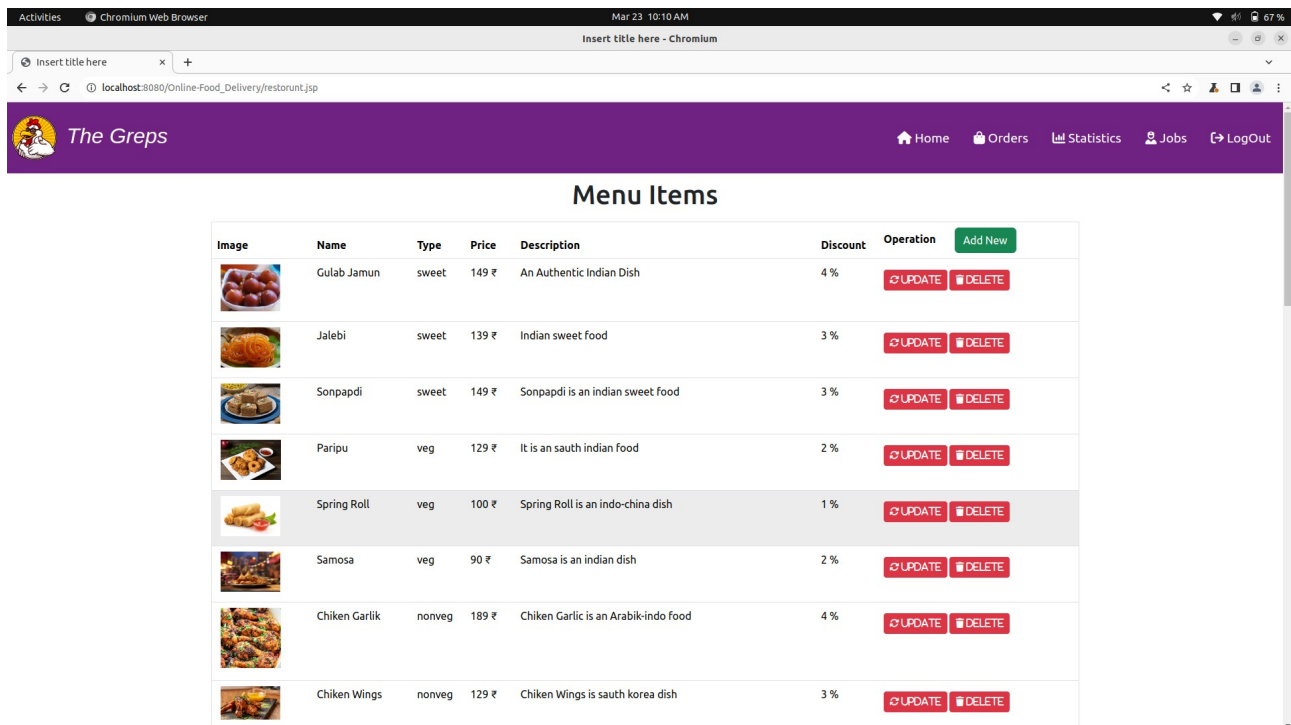
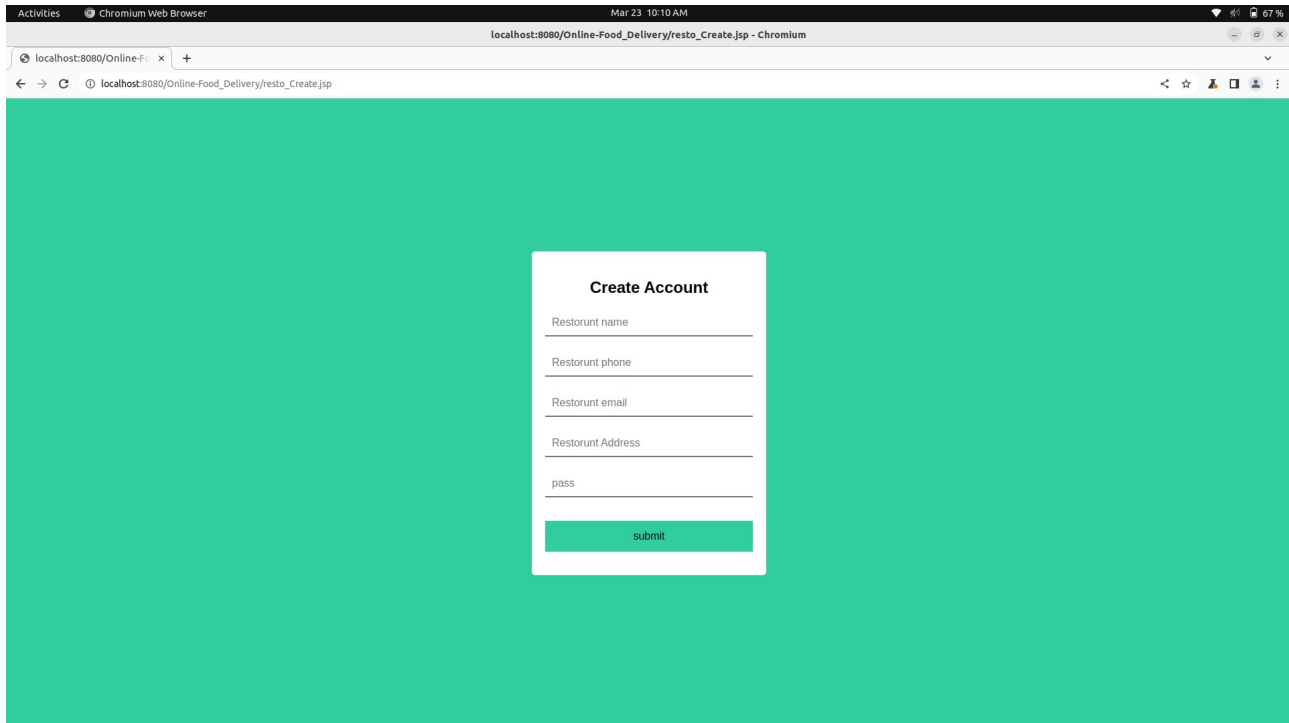
Cart is Empty

Your Recente Order

Name	Price
Gulab Jamun	144.0
Sonpapdi	145.0
Samosa	89.0
Chicken Garlik	182.0
Masala Fish	164.0
Mutton Biryani	291.0
Ghujiya	98.0
Total	1113

5.2 RESTORUNT USER INTERFACE





Todays Orders

Product	Item Name	Customer Name	Operation	
	Masala Fish	Yash Somnath Gorde	ACCEPT	ASSIGN <input type="text" value="abhishek abhang"/>
	Chicken Gariik	Yash Somnath Gorde	ACCEPT	ASSIGN <input type="text" value="abhishek abhang"/>
	Mutton Biryani	Yash Somnath Gorde	ACCEPT	ASSIGN <input type="text" value="abhishek abhang"/>
	Gulab Jamun	Yash Somnath Gorde	ACCEPT	ASSIGN <input type="text" value="abhishek abhang"/>
	Ghujiya	Yash Somnath Gorde	ACCEPT	ASSIGN <input type="text" value="abhishek abhang"/>
	Sonpapdi	Yash Somnath Gorde	ACCEPT	ASSIGN <input type="text" value="abhishek abhang"/>
	Samosa	Yash Somnath Gorde	ACCEPT	ASSIGN <input type="text" value="abhishek abhang"/>

Activities

Chromium Web Browser

Mar 23 10:16 AM

65%

Jobs With Us - Chromium

Jobs With Us

+

[localhost:8080/Online-Food_Delivery/Delivery_Boy.jsp](#)

The Greps

[Home](#)
[Orders](#)
[Statistics](#)
[Jobs](#)
[LogOut](#)

Jobs With Us

At Shef, we're rebuilding the food system from scratch, redefining who can participate in the food economy, and returning personal connection to the making, eating, and sharing of food.

For Joining Us Fill The Form [Join Us](#)

Get connected with us on social networks:

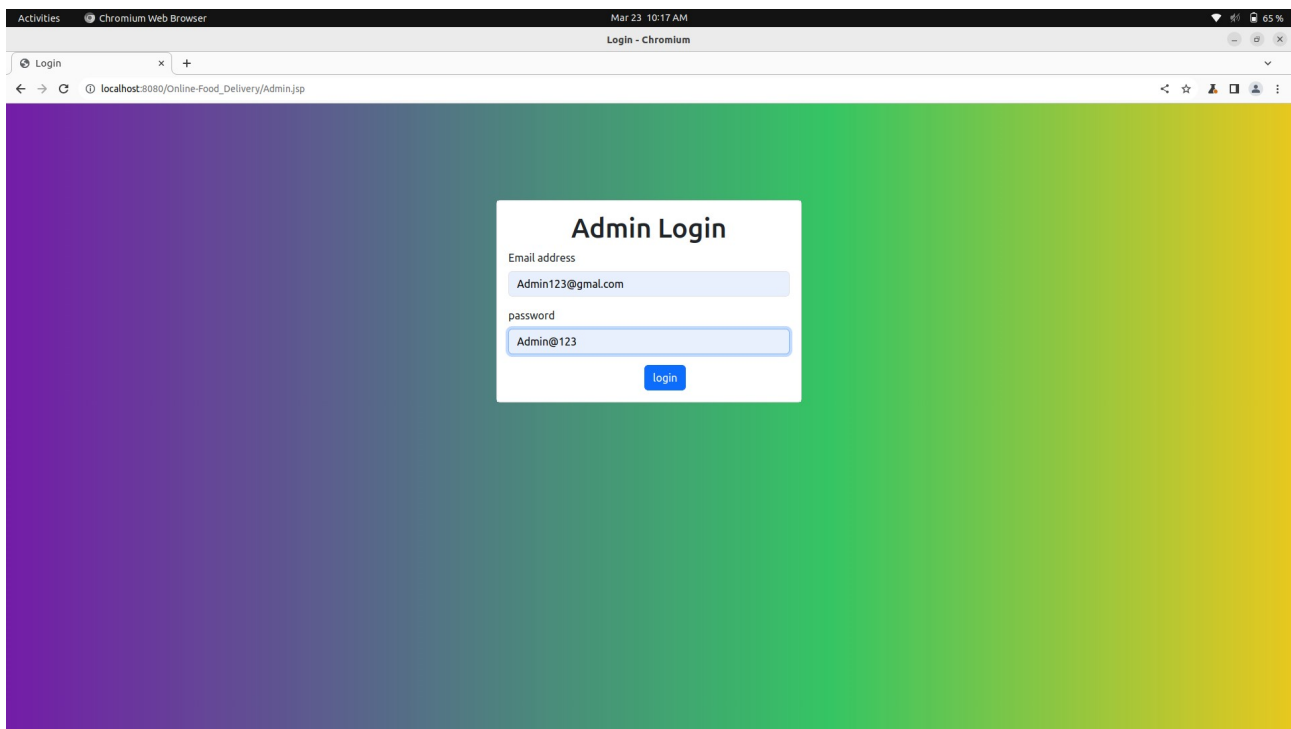
COMPANY NAME

Here you can use rows and columns to organize your footer content. Lorem

CONTACT

Pune Nashik Highway,Sangmner,422605


5.3 ADMIN USER INTERFA



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localhost:8080/Online-Food_Delivery/admin_DeliveryBoy.jsp

 The Greps

Delivery Boy User's Restorunt's Statistics Logout


Delivery Boy Information

Name	Email	Phone No	Address	Pass	Operation	Add New
abhishek abhang	abhi23@gmail.com	8732297748	sangmner	abhishek@123	UPDATE DELETE	
rohit abhang	rohit398@gmail.com	1278738792	sangmner	rohit9347	UPDATE DELETE	
kartik hire	kartik8274@gmail.com	7397823508	sangmner	kartik0839	UPDATE DELETE	
rutik randhir	rutik19987@gmail.com	9746878939	sangmner	rutik10973	UPDATE DELETE	
rutik pawar	rutikp047@gmail.com	7239593749	sangmner	rutikp23883	UPDATE DELETE	
sidharth dushing	sidharh297@gmail.com	9827386812	sangmner	sidhu19278	UPDATE DELETE	
abhishek gaikwad	abhishek033@gmail.com	5478283874	sangmner	abhigai9703	UPDATE DELETE	
abishek Gunjal	abhigunjal357@gmail.com	9346793878	sangmner	abhigunjal29094	UPDATE DELETE	
Aditya waman	aditya3728@gmail.com	6729789189	sangmner	aditya123	UPDATE DELETE	
ashish yadhw	ashu3978@gmail.com	9838468927	sangmner	ashu978	UPDATE DELETE	
dipak kolhe	dipka739@gmail.com	3971673878	sangmner	dipka2398	UPDATE DELETE	
ganesh shinde	ganesh938@gmail.com	9347910739	sangmner	ganesh987	UPDATE DELETE	
gaurav avhad	gaurav922@gmail.com	0374878231	sangmner	gaurav0002	UPDATE DELETE	

Activities Chromium Web Browser Mar 23 10:17 AM

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localhost:8080/Online-Food_Delivery/admin_user.jsp

 The Greps

Delivery Boy User's Restorunt's Statistics Logout


User's Information

Name	Email	Phone No	Address	Password	Operation	Add New
Yash Somnath Gorde	gordeyash798@gmail.com	8080341618	nashik	pass@123	UPDATE DELETE	
Roshan Gorde	roshan123@gmail.com	9325637446	sangmner	roshan@123	UPDATE DELETE	
Priya Gunjal	priya123@gmail.com	9561807618	sangmner	priya@123	UPDATE DELETE	
Gayatri Dighe	gaytri112@gmail.com	7020333211	sangmner	gayatri@222	UPDATE DELETE	
rohit satpute	rohit112@gmail.com	7666252274	sangmner	rohit@123	UPDATE DELETE	
shubham hire	shubham344@gmail.com	8625000508	sangmner	shubham@987	UPDATE DELETE	
Suraj Gorde	suraj999@gmail.com	8668572221	sangmner	suraj@384	UPDATE DELETE	
aditya hire	aditya123@gmail.com	9238797238	sangmner	pass@123	UPDATE DELETE	
akanksha gulve	xyz2004@gmail.com	5670453020	sanganer	akanksha@123	UPDATE DELETE	

Activities Chromium Web Browser Mar 23 10:18 AM

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localhost:8080/Online-Food_Delivery/admin_resto.jsp

 **The Greps**

Delivery Boy User's Restorunt's Statistics Logout


Restorunt Information

Name	Phone	Email	Address	Password	Operation	Add New
panchavti	9096121873	panchavti@gmail.com	nashik	panchavti@123	UPDATE DELETE	
Joshi Sweet	9767041717	joshisweet12@gmail.com	sangmner	joshi@123	UPDATE DELETE	
Ambika Sweet	7775940328	Ambika123@gmail.com	Sangmner	Ambika@122	UPDATE DELETE	
Ambar	8984783923	Ambar34@gmail.com	sangmner	Ambar@333	UPDATE DELETE	
Panchariya	3720384629	panchariya87@gmail.com	sangmner	Panchariya231	UPDATE DELETE	
Tiranga Khanawal	3078488931	tiranga534@gmail.com	sangmner	Tiranga231	UPDATE DELETE	
One Byte	3741339173	onebyte99@gmail.com	sangmner	onebyte2361	UPDATE DELETE	
Platinum Corner	9834724618	platinum388@gmail.com	sangmner	platinum367	UPDATE DELETE	
Hot Spot	9132476236	hotspot23@gmail.com	sangmner	HotSpot976	UPDATE DELETE	

Activities Chromium Web Browser Mar 23 10:18 AM

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localhost:8080/Online-Food_Delivery/Admin_stat.jsp

 **The Greps**

Delivery Boy User's Restorunt's Statistics Logout

User's

9 User's

Restorunt's

9 restorunt's

Delivery person

14 Boy's

User FeedBacks

Name	Email	Phone	Feedback
Priya Shivaji Gunjal	priya123@gmail.com	2368374983	nice application
waman pratiksha sanjay	roshan23@gmail.com	3475689274	jefjn
akanksha gulve	xyz2004@gmail.com	3475689274	well done!

6 .1 ADVANTAGES

1. Convenience: Customers can browse menus and place orders from the comfort of their homes or offices, saving time and effort.
2. Wide selection: Online platforms often aggregate menus from multiple restaurants, providing customers with a diverse range of cuisine options to choose from.
3. Order customization: Customers can easily customize their orders, specifying preferences, allergies, and dietary restrictions, ensuring their meals meet their needs.
4. Time-saving: Online ordering eliminates the need to wait in line or make phone calls, allowing customers to quickly place orders and go about their day.
5. Order tracking: Many online food ordering systems offer real-time order tracking, allowing customers to monitor the status of their orders and estimate delivery times.
7. Loyalty programs and discounts: Online platforms often offer loyalty programs, discounts, and promotional offers to incentivize repeat orders and attract new customers.

6.2 LIMITATIONS

1. **Limited Menu Visibility:** Customers may not have a complete view of all menu items, leading to potential dissatisfaction if their desired dish is not available for online ordering.

2. **Accuracy Issues:** Incorrect orders due to misunderstandings or errors in the online ordering process can occur, leading to customer dissatisfaction and potential financial losses for the business.

3. **Technical Glitches:** System failures, slow loading times, or website/app crashes can hinder the ordering process, frustrating both customers and restaurant staff.

4. **Dependency on Internet Connectivity:** Customers require a stable internet connection to place orders, which can be a challenge in areas with poor connectivity or during internet outages.

5. **Delivery Constraints:** Limited delivery radius or high delivery fees may discourage potential customers from using the service, especially in suburban or rural areas.

6. **Food Quality Concerns:** Delivery times and transportation can affect the quality of the food, leading to customer complaints and negative reviews.

7. **Data Security Risks:** Storing sensitive customer information online poses risks such as data breaches and identity theft if proper security measures are not implemented.

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