

A PROJECT REPORT ON
**STUDENT
WELFARE SYSTEM**

SUBMITTED IN PARTIAL
FULFILLMENT OF
DIPLOMA IN ADVANCED COMPUTING (PG-DAC)



UNDER THE GUIDANCE OF
Mr. Pratik Dhole

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We would like to express our sincere gratitude towards Mrs. Madhura Anturkar, our faculty for Advanced Java, who was always there for us. Her guidance and Student Welfare System us overcome various obstacles and intricacies during the course of our project work. Without her tremendous support, guidance, and efforts, this project would not have been possible.

From,

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ABSTRACT

In the present situation, the web applications which are used by the user for food services and other day-to-day activities are present in different applications with their respective modules. These modules are not only complicated but also discreet which make the whole task time-consuming and lethargic. In order to eradicate these problems, we need a solution such that the student is able to complete as well as modify his/her rental accommodations.

Student Welfare System is a web application specially developed for students to facilitate easy search and ordering of food from local kitchens and hotels along with other related services. This application will help students to save time and money by eliminating the dependence on the offline facilities. The user interface (UI) of the application is developed using the React.js library and the server-side programming is done in the Spring Boot framework of Java Enterprise Edition (J2EE) along with MySQL as the database technology.

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1. INTRODUCTION TO PROJECT

Some of the applications in this field are ZOMATO, FOODPANDA etc. These applications are perfectly fine in their respective fields but they are discrete. Due to this nature of isolation, a particular user when trying to access both these features in a single platform finds him in a spot of bother. In order to remove this issue of redundancy, we are generating an application which will merge all the features into one single application. This integrated platform will help the student to save data, time and money. Let us consider an example where a CDAC student belonging to a different state or locality comes to a particular place. Certainly, he doesn't have any knowledge about the place. He needs to roam around for hours in order to search a place for shelter, a place where edible food is available. During the time of examination or assignments he /she have to look out for various stationary shops and other day-to-day activities. If all these problems are solved by browsing a particular application, the world of the students will turn out to be very easy and accessible.

Our application will provide food delivery as the first service to students along with other services such as paying guest rooms, and stationary shops in the proximity of the particular student (which are considered for future scope and development). The idea is very simple but will turn out to be very helpful and time saver for a particular user because it is completely based on real time issues which a common man faces as an immigrant in a new locality. The admin updates the availability of local kitchens and hotels in different areas and students check the availability of food service in a specified location. They should be able to order the food to their needs in advance to make their stay comfortable. Also, we are keeping the future scope for searching the other services as well.

In the present situation, the web applications which are used by the user for food services and other day-to-day activities are present in different applications with their respective modules. These modules are not only complicated but also discreet which make the whole task time-consuming and lethargic. In order to eradicate these problems, we need a solution such that the student is able to complete as well as modify his/her rental accommodations.

Student Welfare System is a web application specially developed for students to facilitate easy search and ordering of food from local kitchens and hotels along with other related services. This application will help students to save time and money by eliminating the dependence on the offline facilities. The user interface (UI) of the application is developed using the React.js library and the server-side programming is done in the Spring Boot framework of Java Enterprise Edition (J2EE) along with MySQL as the database technology.

The web-based Student Welfare System project is an attempt to stimulate the basic concepts of food shopping. The system enables the customer to do the things such as search for menu items category wise, choose menu items based on description and add that item into cart. The system provides you details about food items. If user want to buy food items, he must have registered account. The system shows the food items that are available. The system displays price, image and quantity of food items to user. Here we provided menu items by category wise that allows customer to choose a particular item easily. If the menu items are available then the system allows the user to add food items into cart.

To place order system ask user to select the address and payment mode. Single customer can save multiple addresses for his account but while placing order he can select only one address. If address is not provided the user can't place order, Customer have to specify the address before placing order. After selecting address and payment mode customer can place order and the same updates will be done in database. The System have admin who can add new menu types and menu items or can remove menu types and menu items and he also can see the availability of menu items.

2.PROJECT OVERVIEW AND SUMMARY

PURPOSE

To develop a web application convenient for newly admitted students in CDAC centers to minimize efforts and save time in acquiring needful services. These services include food, paying guest, etc. In particular, food delivery service is taken into consideration as the initial service and described henceforth as a reference. Our system is flexible, so that it can be used for different rooms and services.

SCOPE

- Currently Purchasing food items has become a tedious job near to CDAC center.
- Small and medium scale restaurants, have to manage data about customers, services offered to them.
- It is difficult for small scale businesses to maintain data for longer time as they are using paper-based system.
- Students also need to find nearest restaurants which provide authentic service.
- Using this system, they will be able to maintain customer and services data.
- We are also solving the problem from customer's end by making ease of choice. They can choose the products from different category and from different Restaurants.

USER CLASSES AND CHARACTERISTICS

In this software, there is an Admin, Admin can add new category of menu type. Customer can use the software for registering to the system. Customer can purchase different food items and can place order. Restaurants Can Register and list there products. delivery person can see order list and order status.

TECHNOLOGIES USED

- MySQL
- React-JS
- Spring Boot

REQUIREMENTS

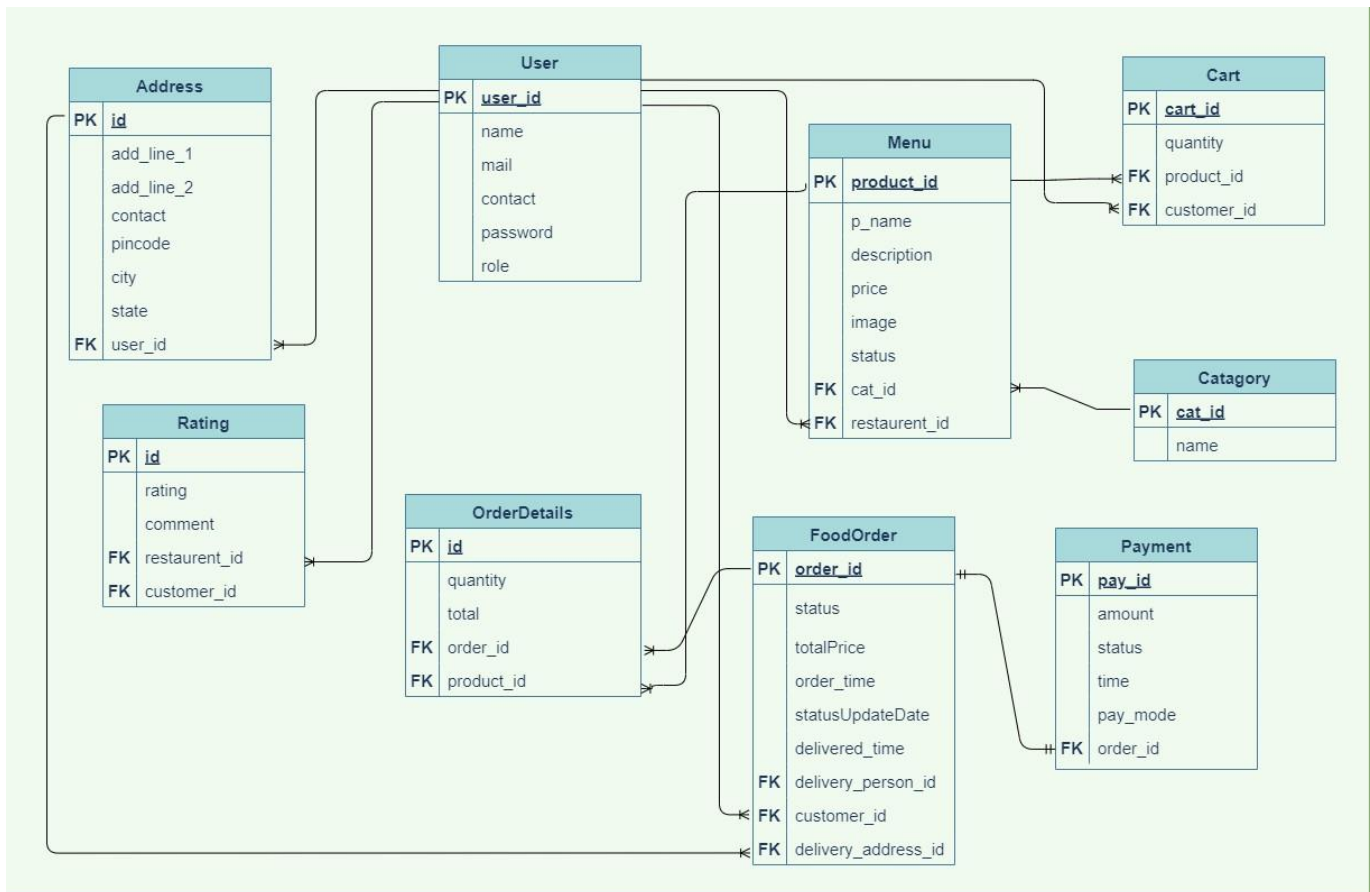
FUNCTIONAL REQUIREMENTS

The major functionality of this project is divided into four categories.

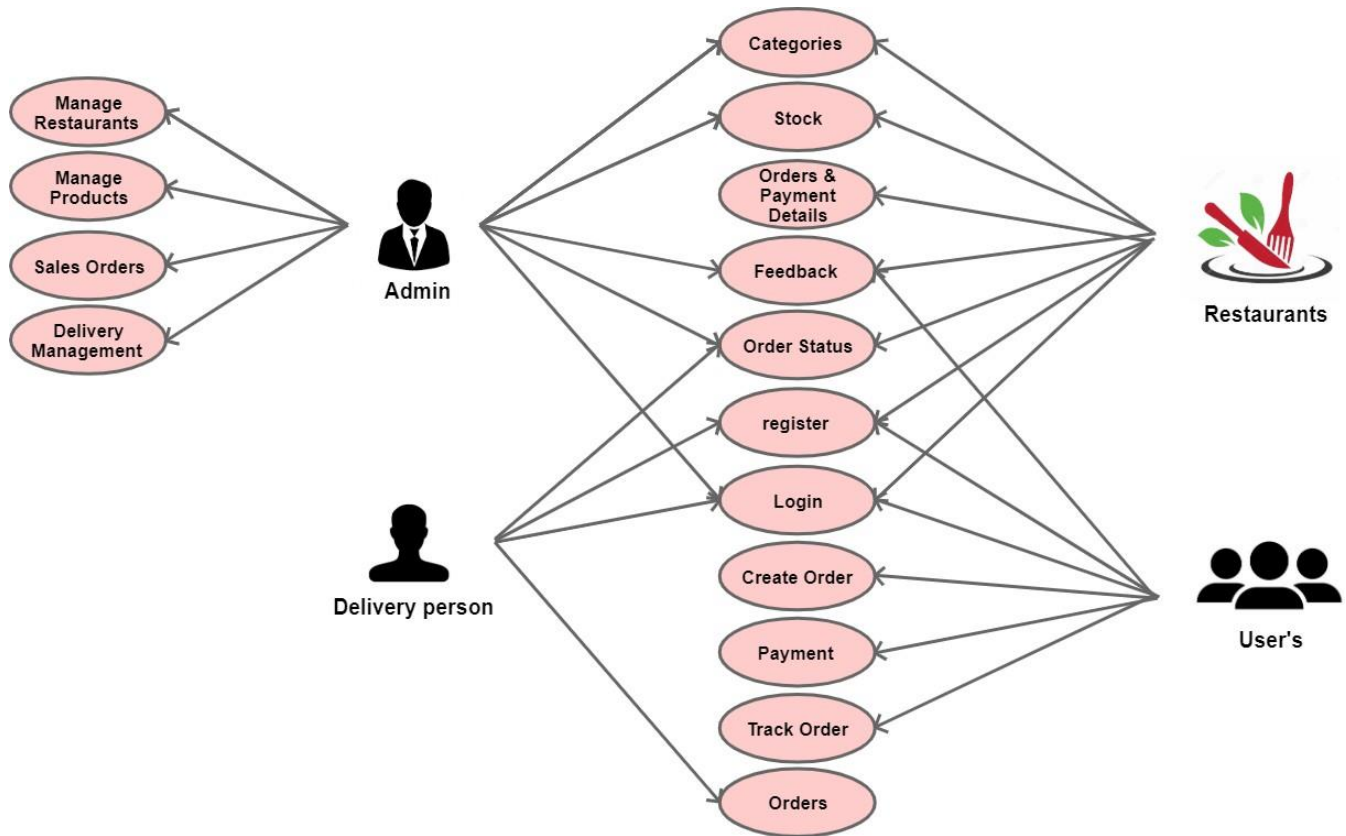
- Administrative Functions.
- Student Functions.
- Restaurant Functions.
- Delivery Boy Functions.

In this application each and every user must have their own Email ID and Password, using these Email ID and Password only they can directly enter into their corresponding Login forms. System analysis will be performed to determine if it is feasible to design information based on policies and plans of the organization and on user requirements and to eliminate the weaknesses of the present system.

ER-DIAGRAM



USE-CASE



DATABASE DESIGN

Users

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
email	varchar	No	UNI	NULL	
name	varchar	Yes		NULL	
password	varchar	No		NULL	
contact	varchar	Yes		NULL	
role	varchar	Yes		NULL	

Addresses

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
address_line_1	Varchar	Yes		NULL	
address_line_2	Varchar	Yes		NULL	
city	Varchar	Yes		NULL	
contact	Varchar	No		NULL	
pin_code	Varchar	Yes		NULL	
state	varchar	Yes		NULL	
user_id	int	No	MUL	NULL	

Cart

Field	Type	NULL	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
quantity	int	NO		NULL	
customer_id	int	YES	MUL	NULL	
menu_id	int	YES	MUL	NULL	

Category

Field	Type	NULL	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar	YES		NULL	

Menu

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
description	varchar	Yes	UNI	NULL	
name	varchar	Yes		NULL	
image	varchar	Tes		NULL	
price	double	Yes		NULL	
Status	tinyInt	yes		NULL	
category_id	int	Yes	MUL	NULL	
rest_id	int	No	MUL	NULL	

Payments

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
amount	double	No		NULL	
payment_time	datetime	Yes		NULL	
status	varchar	Yes		NULL	
Pay_mode	varchar	Yes		NULL	
order_id	int	Yes	MUL	NULL	

Food_order

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
order_date	Datetime	Yes		NULL	
order_status	Varchar	Yes		NULL	
status_update_date	datetime	Yes		NULL	
total_price	double	NO		NULL	
user_id	int	NO	MUL	NULL	
delivery_addresses_id	int	NO	MUL	NULL	
delevery_boy_id	int	NO	MUL	NULL	

Rating

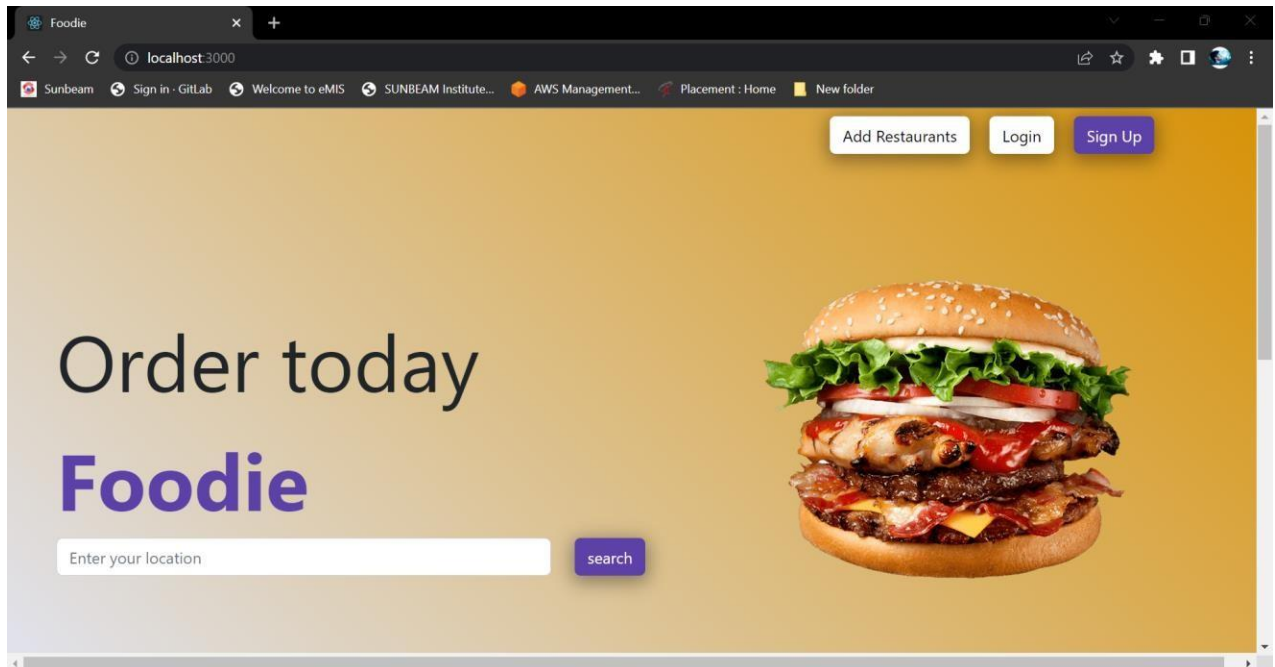
Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
comment	Varchar	Yes		NULL	
rating	int	Yes		NULL	
customer_id	int	No	MUL	NULL	
rest_id	int	No	MUL	NULL	

Order_Details

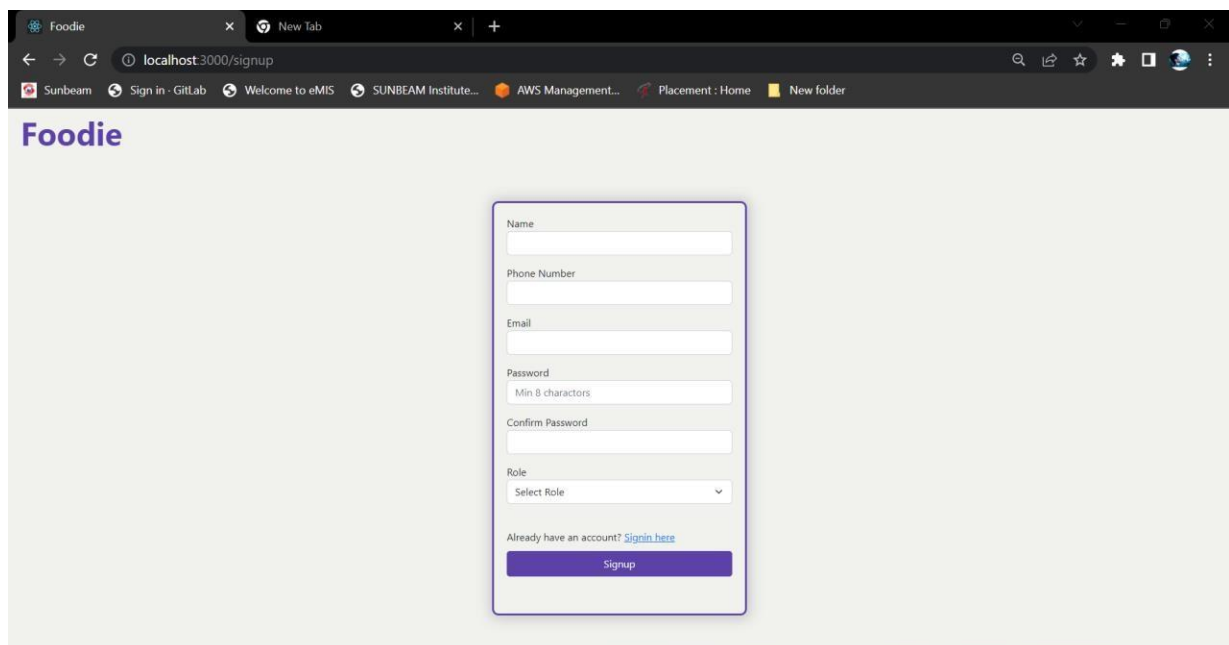
Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
total	double	No		NULL	
quantity	int	No		NULL	
order_id	int	No	MUL	NULL	
product_id	int	No	MUL	NULL	

PROJECT SCREENSHOTS

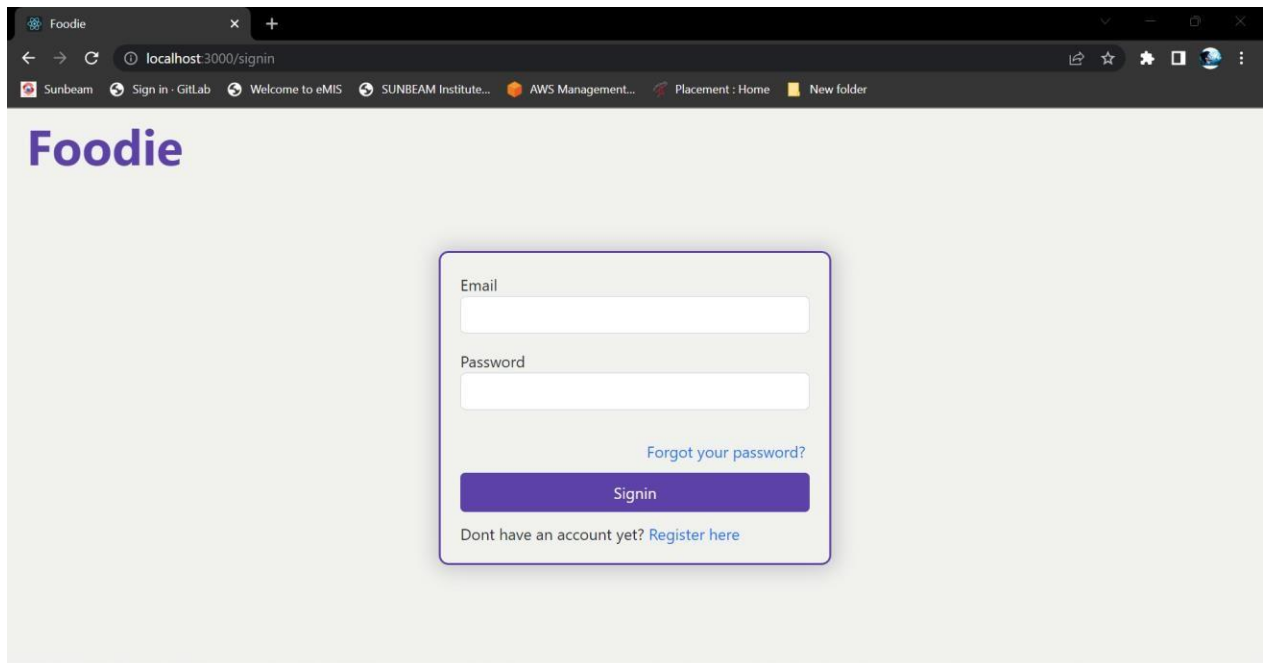
HOME PAGE



SIGN UP PAGE



LOGIN PAGE



The screenshot shows a web browser window with the title 'Foodie'. The address bar displays 'localhost:3000/signin'. The browser's tab bar includes 'Sunbeam', 'Sign in · GitLab', 'Welcome to eMIS', 'SUNBEAM Institute...', 'AWS Management...', 'Placement : Home', and 'New folder'. The main content area features the 'Foodie' logo in purple. A central login form contains an 'Email' input field, a 'Password' input field, a 'Forgot your password?' link, a purple 'Signin' button, and a 'Dont have an account yet? Register here' link.

Foodie

Email

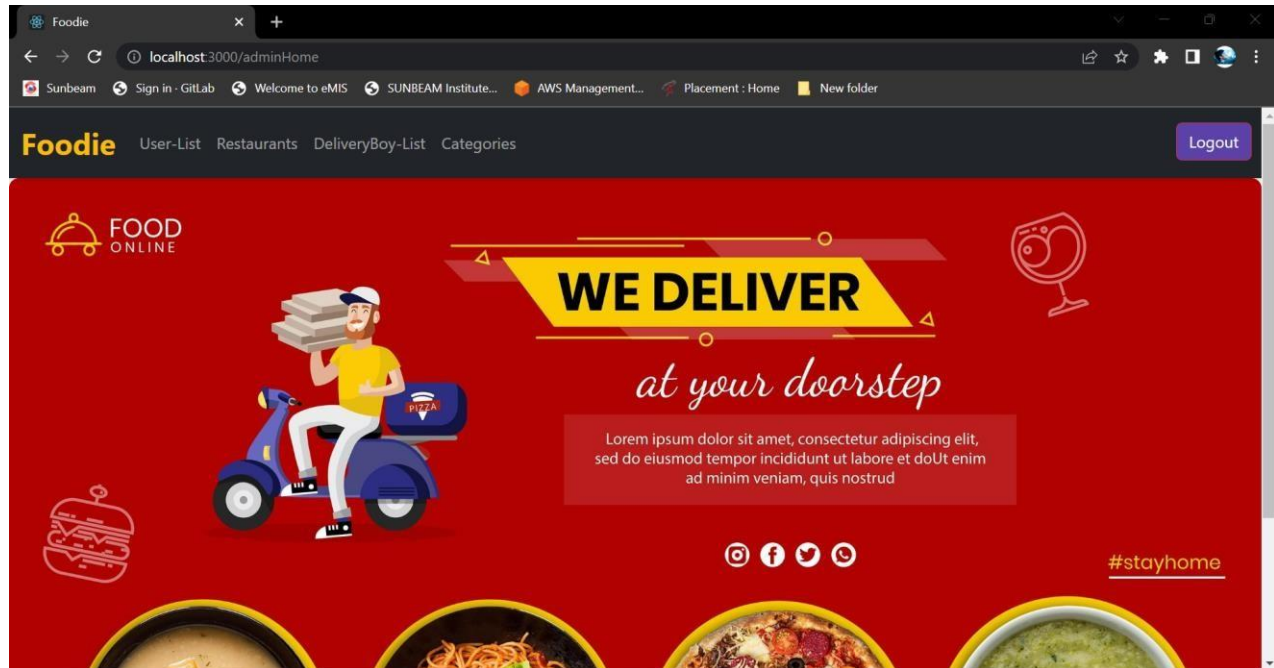
Password

[Forgot your password?](#)

[Signin](#)

Dont have an account yet? [Register here](#)

ADMIN HOMEPAGE



CUSTOMERS LIST

The screenshot shows the 'Customer List' page. The header is identical to the admin homepage. The main content area has a light gray background with the title 'Customer List'. Below the title is a table with four columns: Id, name, Email, and contact. The table contains three rows of customer data.

Id	name	Email	contact
2	Amit Patil	amit@gmail.com	9954261575
6	Sushant Mule	sushant@gmail.com	9821452671
7	Saurabh gaikwad	saurabh@gmail.com	7782564567

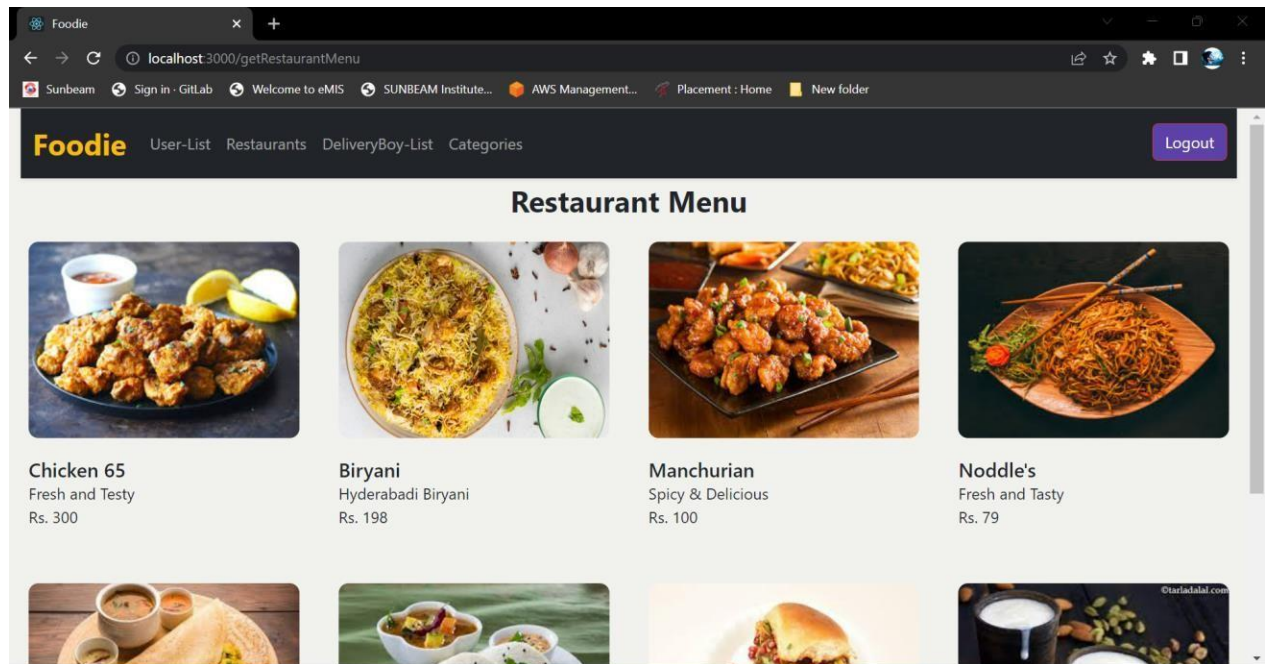
RESTAURANTS LIST

Id	name	Email	contact		
4	Hotel Sai	sai@gmail.com	8855245675	Review	Menu
5	Hotel Samrudhi	samrudhi@gmail.com	8845156457	Review	Menu

RESTAURANT REVIEWS

Id	Customer Name	Comment	Rating
1	Amit Patil	nice hotel	4
2	Amit Patil	nice food	4
3	Amit Patil	nice	3

RESTAURANT MENU

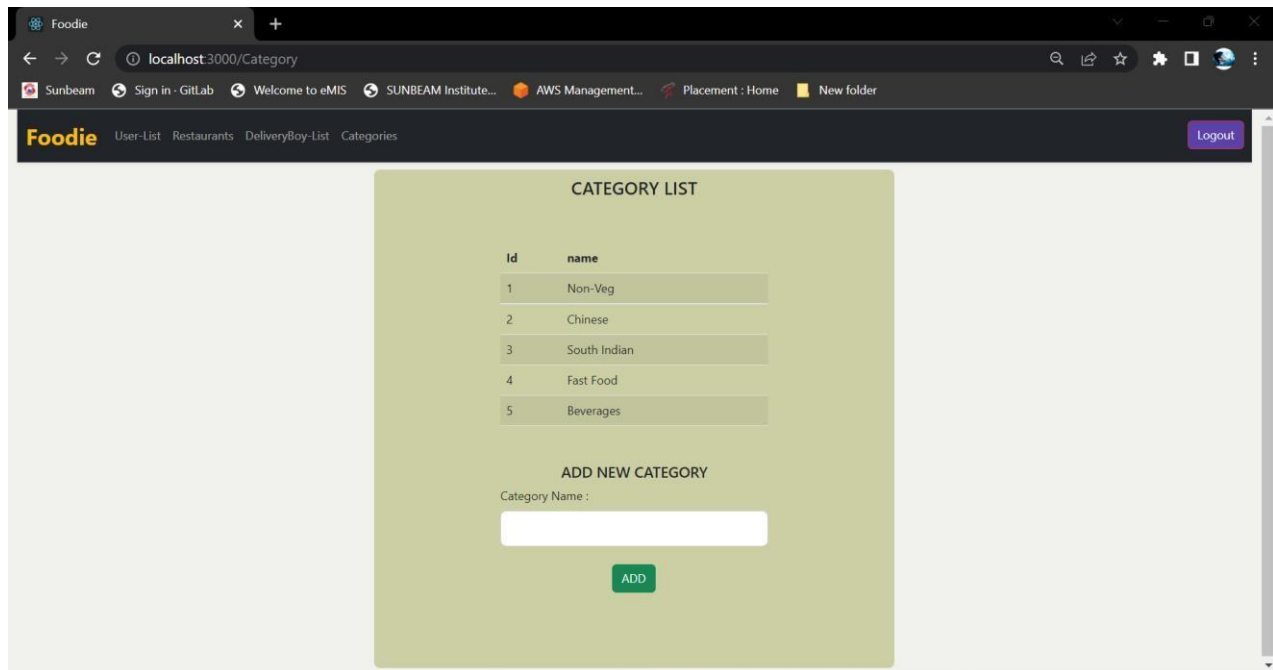


DELIVERYBOY LIST

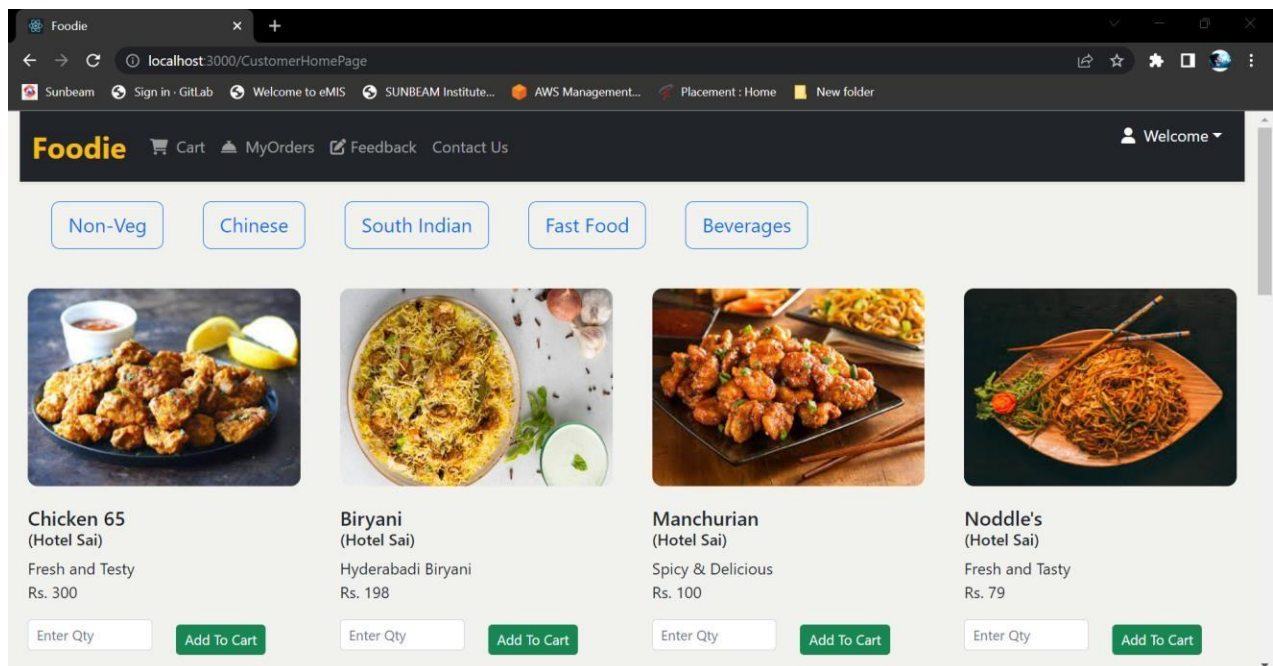
The screenshot shows the 'Foodie' application interface. The top navigation bar includes links for 'User-List', 'Restaurants', 'DeliveryBoy-List', and 'Categories', along with a 'Logout' button. The main heading is 'DeliveryBoy List'. Below this, there is a table with the following data:

Id	name	Email	contact
3	Niranjan Chavan	niranjan2000@gmail.com	7058421585
8	Akash Barge	akash@gmail.com	9943567656
9	Rohit Marathe	rohit@gmail.com	7787656765

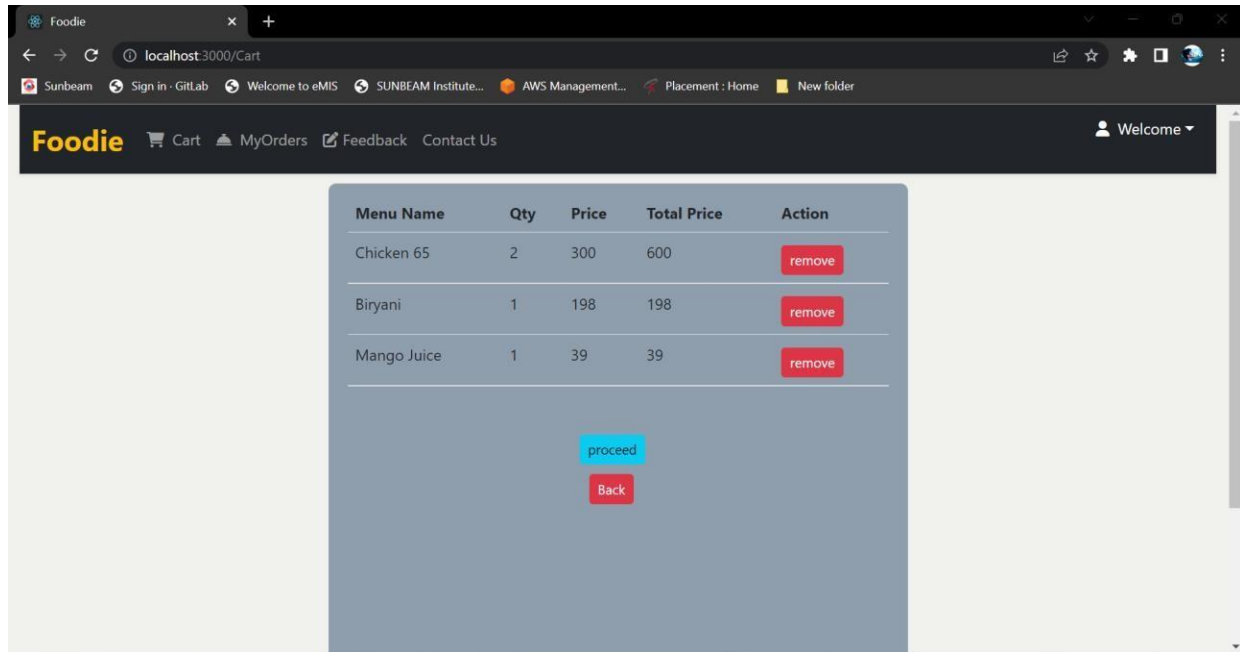
CATEGORY



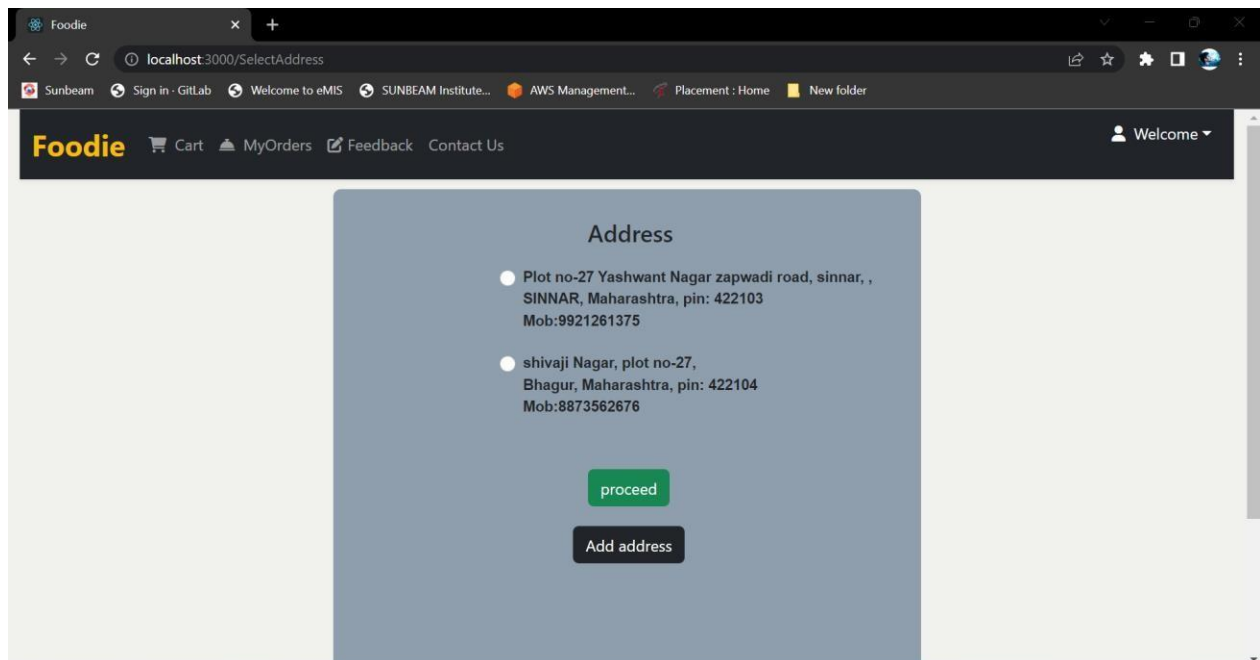
CUSTOMER HOMEPAGE



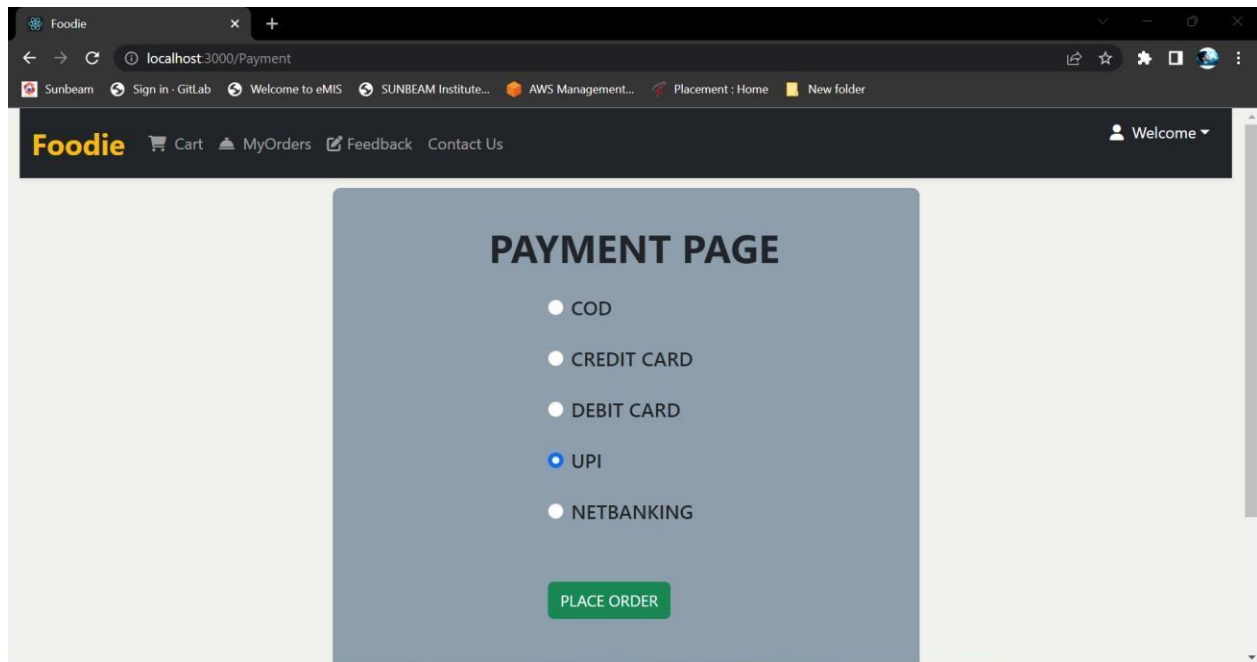
ADD TO CART



ADD ADDRESS



PAYMENT METHODS



MY ORDER DETAILS

The screenshot shows a web browser window with the URL `localhost:3000/MyOrders?paymentMode=UPI`. The page has the same dark header as the previous screenshot. The main content area is a light blue box containing a table with 8 rows of order details.

Details	Total Bill	Order status	Pay status
Chicken 65-2 Biryani-1 Mango Juice -1	837	PLACED	COMPLETED
Manchurian-2	200	PLACED	COMPLETED
Chicken 65-2 Biryani-1 Luski-1	836	PLACED	COMPLETED
Manchurian-1	100	PLACED	COMPLETED
Chicken 65-1	300	ACCEPTED	COMPLETED
Chicken 65-4	1200	DELIVERED	COMPLETED
Chicken 65-2	600	OUT_FOR_DELIVERY	COMPLETED
Chicken 65-1	300	DELIVERED	COMPLETED

FEEDBACK PAGE

The screenshot shows a web browser window with the address bar displaying 'localhost:3000/AddFeedback'. The browser's tab is labeled 'Foodie'. The page's header is dark with the 'Foodie' logo in yellow, and navigation links for 'Cart', 'MyOrders', 'Feedback', and 'Contact Us'. A 'Welcome' dropdown menu is on the right. The main content area has a light gray background with a central blue-gray box titled 'FEEDBACK'. Inside this box, there is a 'Restaurant' section with a dropdown menu showing 'Select Restaurant'. Below that is a 'Rating' section with five empty star icons. The 'Comment' section features a large white text area. At the bottom of the box is a green 'Submit' button.

Foodie

Cart MyOrders Feedback Contact Us

Welcome

FEEDBACK

Restaurant

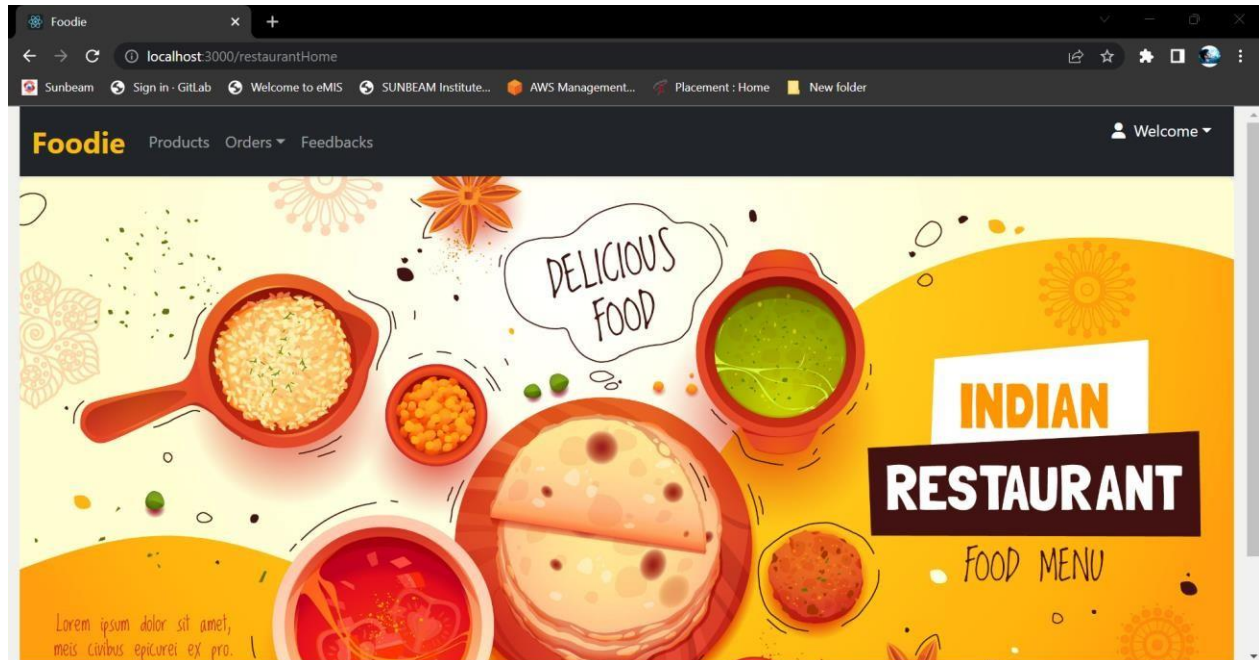
Select Restaurant

Rating : ☆☆☆☆☆

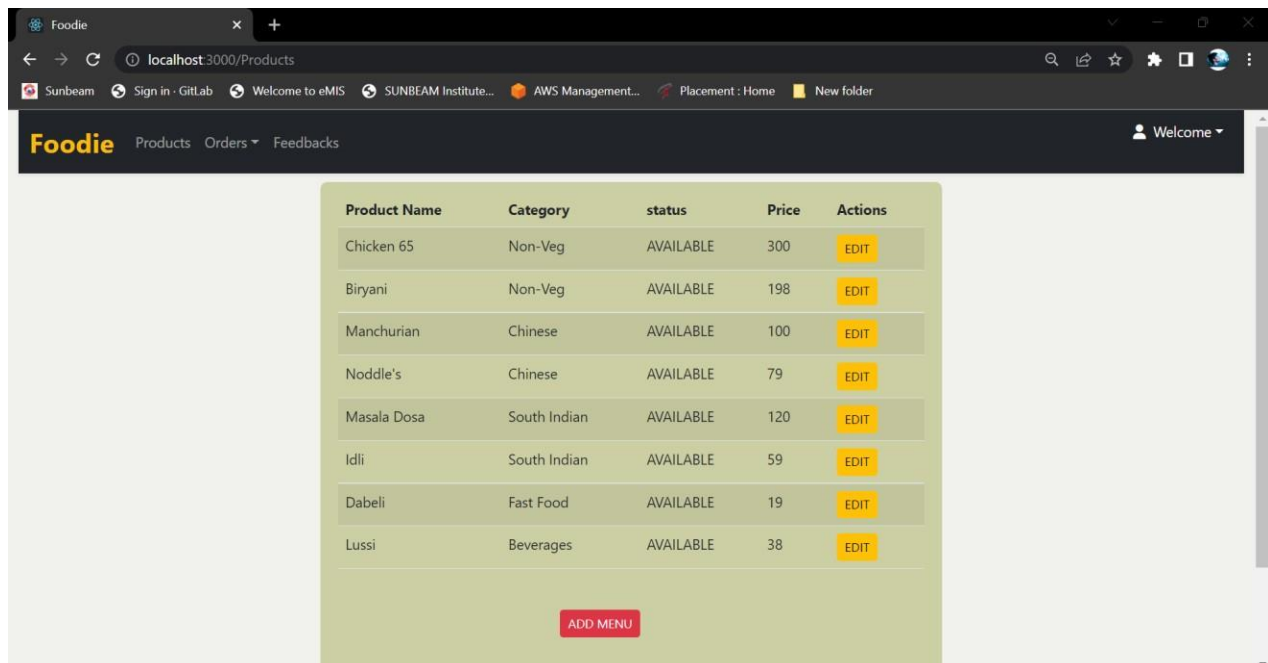
Comment

Submit

RESTAURANT HOMEPAGE



ADD/EDIT MENU



ARRIVED ORDERS

Id	Customer name	Address	contact	product	Quantity	Order Time	Status	
5	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Manchurian	1	2022-09-24T11:42:14.335698	PLACED	<button>Accept</button>
6	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	2	2022-09-24T12:25:37.115227	PLACED	<button>Accept</button>
6	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Biryani	1	2022-09-24T12:25:37.115227	PLACED	<button>Accept</button>
6	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Lussi	1	2022-09-24T12:25:37.115227	PLACED	<button>Accept</button>
7	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Manchurian	2	2022-09-24T15:57:54.002137	PLACED	<button>Accept</button>
8	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	2	2022-09-28T18:29:11.641694	PLACED	<button>Accept</button>
8	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Biryani	1	2022-09-28T18:29:11.641694	PLACED	<button>Accept</button>

ACCEPTED ORDERS

Id	Customer name	Address	contact	product	Quantity	Order Time	Status	
4	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	1	2022-09-21T09:57:44.662094	ACCEPTED	<div>select</div> <button>Update</button>
3	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	4	2022-09-21T09:47:53.286998	DELIVERED	<div>select</div> <button>Update</button>
2	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	2	2022-09-19T12:01:49.336853	OUT_FOR_DELIVERY	<div>select</div> <button>Update</button>
1	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	1	2022-09-19T10:57:28.126927	DELIVERED	<div>select</div> <button>Update</button>

UPDATE ORDERS STAUS

Accepted Orders

Id	Customer name	Address	contact	product	Quantity	Order Time	Status
4	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	1	2022-09-21T09:57:44.662094	ACCEPTED
3	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	4	2022-09-21T09:47:53.286998	DELIVERED
2	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	2	2022-09-19T12:01:49.336853	OUT_FOR_DELIVERY
1	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Chicken 65	1	2022-09-19T10:57:28.126927	DELIVERED

SHOWING CUSTOMER FEEDBACKS

CUSTOMER FEEDBACKS

Id	Customer Name	Comment	Rating
1	Amit Patil	nice hotel	4
2	Amit Patil	nice food	4
3	Amit Patil	nice	3

DELIVER BOY HOME

Foodie My Orders [Logout](#)

New Orders

Id	Customer name	Address	contact	Price	Order Time	
9	Sushant Mule	laxmi Nagar,zapwadi road,shant,marashtra 422105	7865676567	Rs : 299	2022-09-28T22:36:23.898416	Accept
4	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Rs : 300	2022-09-21T09:57:44.662094	Accept

DELIVER BOY - UPDATE STATUS

Foodie My Orders [Logout](#)

Accepted Orders

Id	Customer name	Address	contact	Price	Payment Status	Order Time	status		
3	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Rs : 1250	COMPLETED	2022-09-21T09:47:53.286998	DELIVERED	<div>select</div> <div>Out_for_Delivery</div> <div>Delivered</div> <div>Cancelled</div>	Update
2	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Rs : 650	COMPLETED	2022-09-19T12:01:49.336853	OUT_FOR_DELIVERY	select	Update
1	Amit Patil	Plot no-27 Yashwant Nagar zapwadi road, sinnar,,SINNAR,Maharashtra 422103	9921261375	Rs : 350	COMPLETED	2022-09-19T10:57:28.126927	DELIVERED	select	Update

TESTING

To build up our project we used software testing process for executing a program with the intent of finding error that is uncovering errors in a program makes it a feasible task and also trying to find the errors (whose presence is assumed) in a program. As it is a destructive process. Types of testing we use in our project Here we just mentioned that how the testing is related to this software and in which way we have test the software? In our project we have used five types of testing this are listed below

UNIT TESTING

- Unit testing where individual program units or object class are tested here by using this testing we have focus on testing functionality of the methods.

MODULE TESTING

- Where this is the combination of unit program is called module. Here we tested unit program is where the module program have dependency.

SUB SYSTEM TESTING

- Then we combined some module for the preliminary system testing in our project.

SYSTEM TESTING

- Where it is combination of two or more sub system and then it is tested here we tested the entire system as per requirement.

ACCEPTANCE TESTING

- Normally this type of testing is done to verify if system meets the customer specified requirements. After submitting this project to the user then they tested and to determine whether to accept the application. It is the system of testing performed by the customer to determine where they should accept the delivery of system.

CONCLUSION

Currently small and medium scale restaurants don't have synchronization between their task and customer. By making online food delivery system we have solved the problem from food store and customer end and more convenience is added to the existing system.

Web application abridges the gap between the user and the hosts. This integrates basic amenities for the users especially the students in one platform. It further extends the feature of advertising the hosts' accommodation facilities over the website application. All in all this application will turn out to be a boon for all the students by providing them with a portable all-in-one application. None of the applications in the existing system support such a user friendly atmosphere where all the three features are merged into one integrated platform. There are many conclusive features in the website which suggests there can be further development and an outlook can be created for business perspective using various hosting platforms. The inclusion of cloud services makes it all the more remarkable. The integration of these platforms can make a subtle environment where a user can incur less data and also save time.

In future scope this system will be available with large scale database and can accommodate many services such as laundry, paying guest rooms. This system can also be developed on mobile application so that it can be access remotely.