INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On

"TIFFIN ORDERING SYSTEM"
PG-DAC MAR 2022

Submitted By:

GROUP NO. 34

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ACKNOWLEDGEMENT

This project "**FOOD FROM HOME – Tiffin Ordering System**" was a great learning experience for us and we are submitting this work to Institute for Advanced Computing and Software Development-Akurdi, Pune.

We are very glad to mention *Mrs. Megha Pawar & Mrs. Sonali Mogal* for their valuable guidance to work on this project. Their guidance and support helped us to overcome various obstacles and intricacies during the course of project work.

Our heartfelt thanks goes to Mr. *Keshav Kumar*(Course Coordinator, PG-*DAC*) who gave all the required support and kind coordination to provide all the necessities to complete the project and throughout the course up to the last day here in IACSD-AKURDI, Pune.

Deepali Vyas (220341220045)

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1. Introduction

There are times when bachelors including other customers, find it difficult to curb their hungerand cravings in a tight budget when relocating to a new city.

So many times, the bachelors and customers get bored of eating same food day in and day out regularly and look out for ways to keep spice in their daily eating habits and eternal satisfaction.

The project **FOOD FROM HOME - Tiffin Ordering System** is a web-based application that allows the administrator to handle all the activities online quickly and safely. Using Interactive GUI anyone can quickly learn to use the complete system.

Using this, the administrator doesn't have to sit and manage the entire activities on paper, and at the same time, the head will feel comfortable to keep check of the whole system. This system will give him power and flexibility to manage the entire system from a single online portal.

The project aims to provide food services to the customers (Bachelors), who find it difficult to curb their hunger in a tight budget. As we know that the food cooked at home is hygienic and best for health. The food prepared at home is cheaper too and keeps the doctors far away and makes us healthy.

In today's world, most of the people live away from their homes for work. Food is the basic necessity for everybody. Most of them are dependent on other people for food, so the aim of the project is to provide them hygienic home-cooked food of high quality at low cost.

Various items are available to the customers. They can select the desired package at a reasonable price. The food can be delivered to their residence. They can pay on the basis of their respective selected packages.

We make sure that all the Homemakers use fresh vegetables, fresh wheat, rice etc. The food is prepared by the homemakers in their well sanitized and hygienic kitchen, just like our homes to maintain the hygiene, taste and quality.

The customer can choose the package of their own choice. So, we have generated a system that will provide package details to the customers, i.e., Mini, Classic and Jumbo Package. The Tiffin will be delivered at their residence at the time given by the customers.

2. Project Overview

Purpose:

This project is to book a service online. Using this system, the customer (bachelor) can do booking of Food From Home services from anywhere.

This document gives the brief summary of the system Food From Home. It will be helpfulfor the developer to actually outline the system.

Scope:

The Food From Home – Tiffin Ordering System is a software application to assist a user (individual or society) for placing orders, which includes selecting a Homemaker, selecting the package which he/she wants to avail, ordering and cancelling/rescheduling orders. If user has any queries or facing any problem then he/she can ask for help from About Us/Contact Us section.

In Admin part, he/she can add/remove customers, add/remove homemakers, give the solutions to the user's queries and keep the track of all the orders of all the users.

The system provides a user-friendly environment to order a suitable package. Also provides all the information of each food-package.

Feasibility:

A feasibility study is an analysis that takes all of a project's relevant factors into account—including economic, technical, and scheduling considerations—to ascertain the likelihood of completing the project successfully.

A feasibility study is simply an assessment of the practicality of a proposed plan or project.

The following feasibility studies were conducted to make sure that our software is feasible:

Technical feasibility:

As per this study, we found that our choice of technology stack was conducive enough to bring the project to fruition. Irrespective of the system in which our backend ran, the results were as expected and platform dependency was not found.

In the type of feasibility study, the system analyst has to check whether it is possible or not to develop the requested system with availability of manpower,

software, hardware, etc…The system which we run in Linux as well as windows platform and hence are suitable for the end-user. The system is technically feasible because it does not require too much manpower and runs with the basicavailable equipment.

Operational feasibility:

As per this study, we came to the conclusion that system is user friendly andeasy to maintain. The project offers a great deal of user experience and convenience to the target group.

We need to train our staff so that system will be handled efficiently. As the system developed is very user-friendly and easy to operate for any person with minimum computer knowledge is also able to handle our system. It is also easy to operate due to the user-friendly interface developed using React JS, JavaScriptand their respective libraries.

Economical feasibility:

As per this study, we concluded that the technology stack we are using in our project is open sourced, freely available and well-maintained by the community. This reduces the cost of system as well as development cost, without compromising the quality of the product. This system was found to beergonomic to the target customer base.

3. Overall Description

Product Features:

The main feature of this system is the user can search for the particular food-package he wants and particular home-maker as well. The user must be a registered one before he orders a package. The user can change/cancel the order as per his need. The system shows the details of that package, payment amount and it's summary after selecting the package and all the items user wants to see. There are 3 types of food-packages Mini package, Classic Package and Jumbo Package. User can see all his/her order history and all his/her homemakers in this system. Also, if user has any queries or is facing any issue, he can ask for help from About Us/Contact Us section.

In admin part, he/she can add or remove the Homemakers and Customers in the system. Admin can give the solutions to the user queries and keep track of all the orders of all users.

Technology Used:

BACK END:
Spring Boot
JPA Repository
MySQL database
Apache Tomcat
Spring REST

FRONT END:
Spring MVC
React
HTML, CSS, Bootstrap
JavaScript
Apache Tomcat

User Classes:

There are three types of users to this system, one is Customer, another one is Admin and last one is Homemaker. Their functionalities are as follow:

ADMIN: The super user, admin class represents complete authority over the system. An admin can,

1. Add or remove the customers on system
2. Add or remove the homemakers on system
3. Handle the queries and give solutions to all the queries which are coming from users/customers/homemakers
4. Keep track of all the orders of all the users

CUSTOMER: Once customer has registered in this system he/she can,

1. Select the package which he's willing to choose
2. Choose the desired homemaker
3. Add his additional information
4. Choose the food package and desired homemaker which he wants to select
5. Choosing the payment mode (UPI/Credit-Debit CARD/Pay on Delivery) and pay according to that
6. Cancel the order if he/she wants to, also he/she can get refund for the same if he/she has paid for that
7. Ask queries if he/she is facing any issues

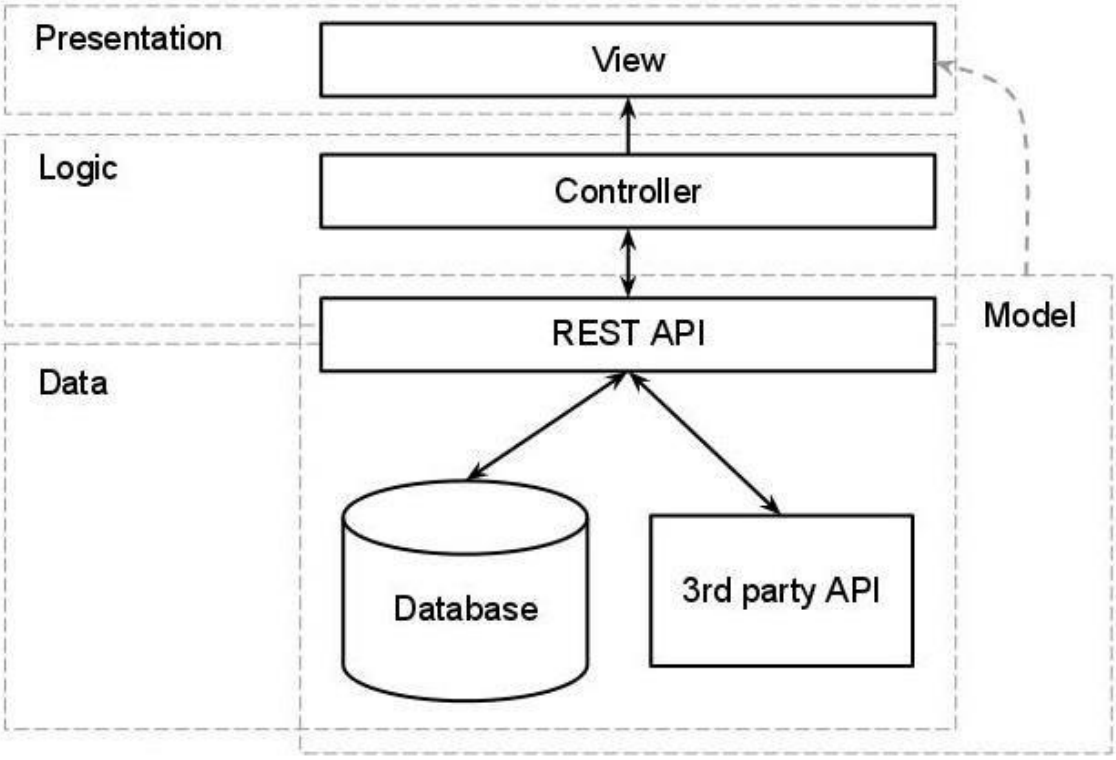
HOMEMAKER: Once homemaker has registered in this system, he/she can,

5. Can see the customers
6. Can see the orders
7. Handle the queries and give solutions to all the queries which are coming from admin
8. Keep track of all the orders of their respective customer

General Constraints:

The "Food From Home" should run on all Internet Browser and all processors whichsupports the Internet Browser.

Architecture Diagram:



4. Software Requirements Specification

Introduction:

This document is the SRS report for a *Tiffin Ordering System (Food From Home)* web Application.

This system has the following main components:

1. Implement the different types of user – Administrator, Customer and Homemaker
2. Implement subscription facility for customer
3. Implement daily menu selection facility from Homemakers; Customers can select their menu accordingly
4. Ordering of tiffin orders
5. Payment Ordering for Customer and Homemaker

Purpose:

The purpose of our application is to create a platform which provides an opportunity to the local-area homemakers to start their own Tiffin Services while ensuring the local-area bachelors diminish their hunger on a budget.

The users of our web-application will need to create an account as a customer to avail Tiffin Services based on the availability of the Homemaker in the respective locality.

Customers can navigate through different categories of food items as per their choice.

A payment functionality will be built in to allow the use of credit cards, debit cards or COD for customers.

Scope:

This system will allow Secure registration and profile Ordering facilities for Customers and Homemakers. System will display numerous Tiffin Services by various homemakers so that the customers can choose their service. Safe payment gateways will be provided by the system so that customer data remains confidential/.

Definitions:

TOS --> Tiffin Ordering System

SRS --> Software Requirement Specification

COD --> Cash on Delivery

Overview:

This is a Tiffin Ordering System that tends to provide Tiffin Services to theCustomers (Bachelors) and simultaneously provide Employment to the Homemakers.

Functional Requirement:

This section provides a requirement overview of the system. Various functional modules that can be implemented by the system will be-

1. **Customer Authentication and Registration:**
   - This system will create a customer profile by providing customer registration functionality
   - Customers can create or update his/her profile information
   - System will also authenticate user credentials if the customer is already registered

2. **HomeMaker's Authentication and Registration:**
   - This system will allow HomeMaker to create profiles by providing HomeMaker's registration functionality.
   - HomeMaker's can create or update his profile information.
   - System will also authenticate user credentials if HomeMaker is already registered.

3. **Tiffin Catalog:**
   - System will provide various categories of Tiffin Services for Customers
   - Customers can Choose any Tiffin Service according to his/her Choice

4. **Order Processing:**
    - System will allow customers to place orders for particular Services, the orders will be available for customers till the confirmation
    - System will provide a facility for customers to cancel Service after the confirmation
    - Order history will be maintained for each end user

5. **Billing:**
    - System will display available payment methods for payment processing
    - Customer can choose his/her method of payment for orders

Hardware Interface:

- Since the application is internet based, all the hardware shall be required to connect to the internet

Software Interface:

- As the system is on server, so requires any scripting language JSP etc.
- System will require a capable Database like MySQL, Oracle etc.
- System will communicate with the database for storing customer profile, product details, Payment history, order history,etc.

Non-Functional Requirements:

1. **Usability**: System will be efficient to use, easy to use. Information about best tiffin services offered by homemakers will be given to customers.
2. **Portability**: This system can be used on Windows or Linux OS. System is easy to port on any other server.
3. **Performance**: The Tiffin Ordering System has adequate performance requirements. it does not take more than 5 seconds to load new pages.
4. **Integrity**: Whenever the changes are made related to customer data and his orders, it shall be reflected in the database as well.

System Interactions:

1. **Customer Interaction:** Customers will be able to surf for the required tiffin plans in his location through the website. System will allow the end user to subscribe to the weekly/monthly tiffin plans if he/she is a registered user.

Customers will be able to opt out of the order if required. Payment can be made by any one COD, Debit card or UPI.

2. **Homemaker Interaction:** Homemakers can provide their daily menu and can see their daily orders to fulfil.

Admin Staff: System Admin will Add/Delete/Update the Customers and Homemakers details. Admin can also manage the payment related issues.

5. Design

Database Design

The following table structures depict the database design.

Table 1: Admin

```
mysql> desc admin;
+------------------+-------------+------+-----+---------+----------------+
| Field            | Type        | Null | Key | Default | Extra          |
+------------------+-------------+------+-----+---------+----------------+
| id               | int         | NO   | PRI | NULL    | auto_increment |
| alternate_no     | varchar(10) | YES  | UNI | NULL    |                |
| confirm_password | varchar(50) | NO   |     | NULL    |                |
| email            | varchar(50) | YES  | UNI | NULL    |                |
| name             | varchar(50) | YES  |     | NULL    |                |
| password         | varchar(50) | NO   |     | NULL    |                |
| phone_no         | varchar(10) | YES  |     | NULL    |                |
+------------------+-------------+------+-----+---------+----------------+
```

Table 2: Customer

```
mysql> desc customer;
+------------------+--------------+------+-----+---------+----------------+
| Field            | Type         | Null | Key | Default | Extra          |
+------------------+--------------+------+-----+---------+----------------+
| id               | int          | NO   | PRI | NULL    | auto_increment |
| city             | varchar(30)  | YES  |     | NULL    |                |
| confirm_password | varchar(100) | NO   |     | NULL    |                |
| country          | varchar(30)  | YES  |     | NULL    |                |
| email            | varchar(30)  | YES  | UNI | NULL    |                |
| name             | varchar(30)  | YES  |     | NULL    |                |
| password         | varchar(100) | NO   |     | NULL    |                |
| phone_no         | varchar(30)  | YES  | UNI | NULL    |                |
| pincode          | varchar(30)  | YES  |     | NULL    |                |
| plan_package     | varchar(255) | YES  |     | NULL    |                |
| plan_type        | varchar(255) | YES  |     | NULL    |                |
| primary_address  | varchar(30)  | YES  | UNI | NULL    |                |
| state            | varchar(30)  | YES  |     | NULL    |                |
| h_id             | int          | YES  | MUL | NULL    |                |
+------------------+--------------+------+-----+---------+----------------+
```

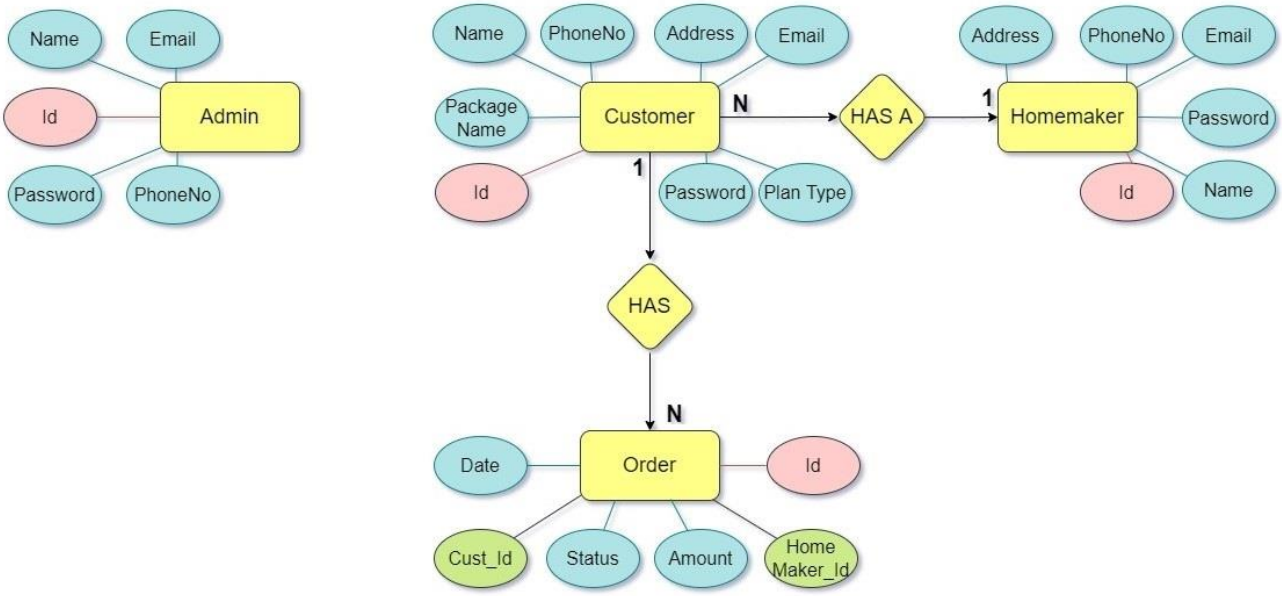
Table 3: HomeMaker

```
mysql> desc home_maker;
+------------------+-------------+------+-----+---------+----------------+
| Field            | Type        | Null | Key | Default | Extra          |
+------------------+-------------+------+-----+---------+----------------+
| id               | int         | NO   | PRI | NULL    | auto_increment |
| city             | varchar(30) | YES  |     | NULL    |                |
| confirm_password | varchar(30) | NO   |     | NULL    |                |
| country          | varchar(30) | YES  |     | NULL    |                |
| email            | varchar(30) | YES  | UNI | NULL    |                |
| name             | varchar(30) | YES  |     | NULL    |                |
| password         | varchar(30) | NO   |     | NULL    |                |
| phone_no         | varchar(30) | YES  | UNI | NULL    |                |
| pincode          | varchar(30) | YES  |     | NULL    |                |
| primary_address  | varchar(30) | YES  | UNI | NULL    |                |
| state            | varchar(30) | YES  |     | NULL    |                |
+------------------+-------------+------+-----+---------+----------------+
```

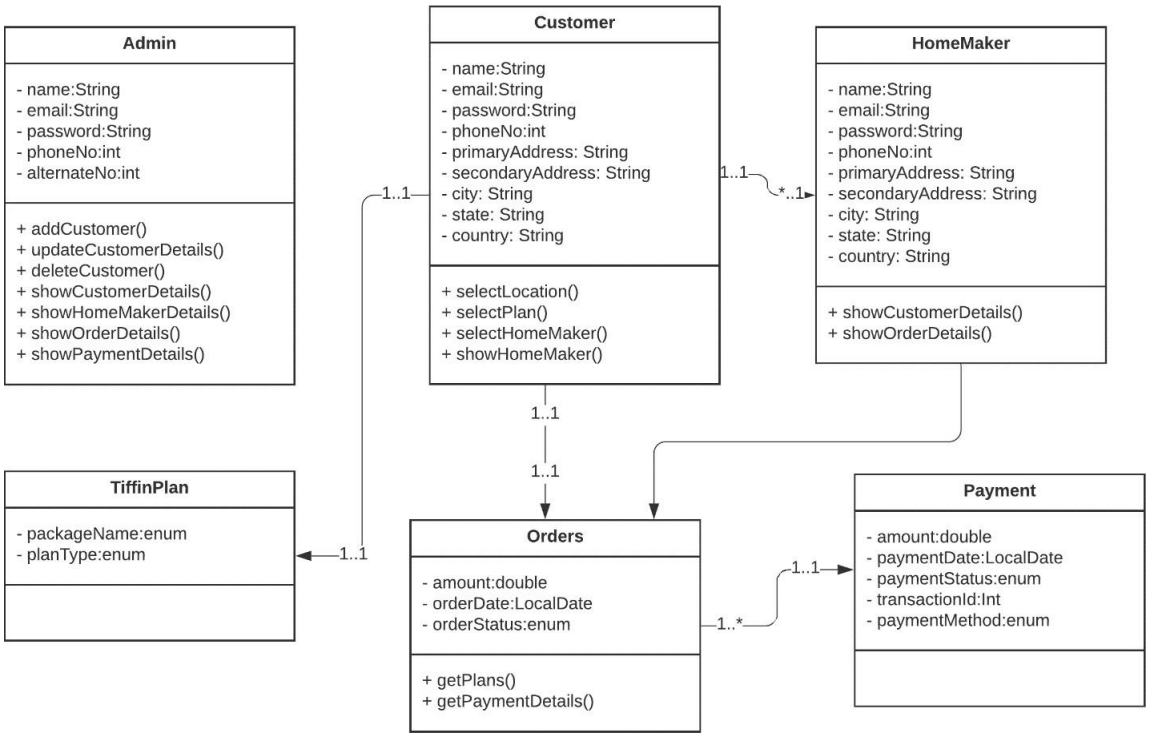
Table 4: Orders:

```
mysql> desc orders;
+--------------------+-------------+------+-----+---------+----------------+
| Field              | Type        | Null | Key | Default | Extra          |
+--------------------+-------------+------+-----+---------+----------------+
| id                 | int         | NO   | PRI | NULL    | auto_increment |
| order_amount_paise | varchar(30) | YES  |     | NULL    |                |
| customer_id        | int         | YES  |     | NULL    |                |
| date_time          | datetime(6) | YES  |     | NULL    |                |
| home_maker_id      | int         | YES  |     | NULL    |                |
| order_id           | varchar(30) | YES  |     | NULL    |                |
| payment_id         | varchar(30) | YES  |     | NULL    |                |
| receipt            | varchar(30) | YES  |     | NULL    |                |
| status             | varchar(30) | YES  |     | NULL    |                |
+--------------------+-------------+------+-----+---------+----------------+
```

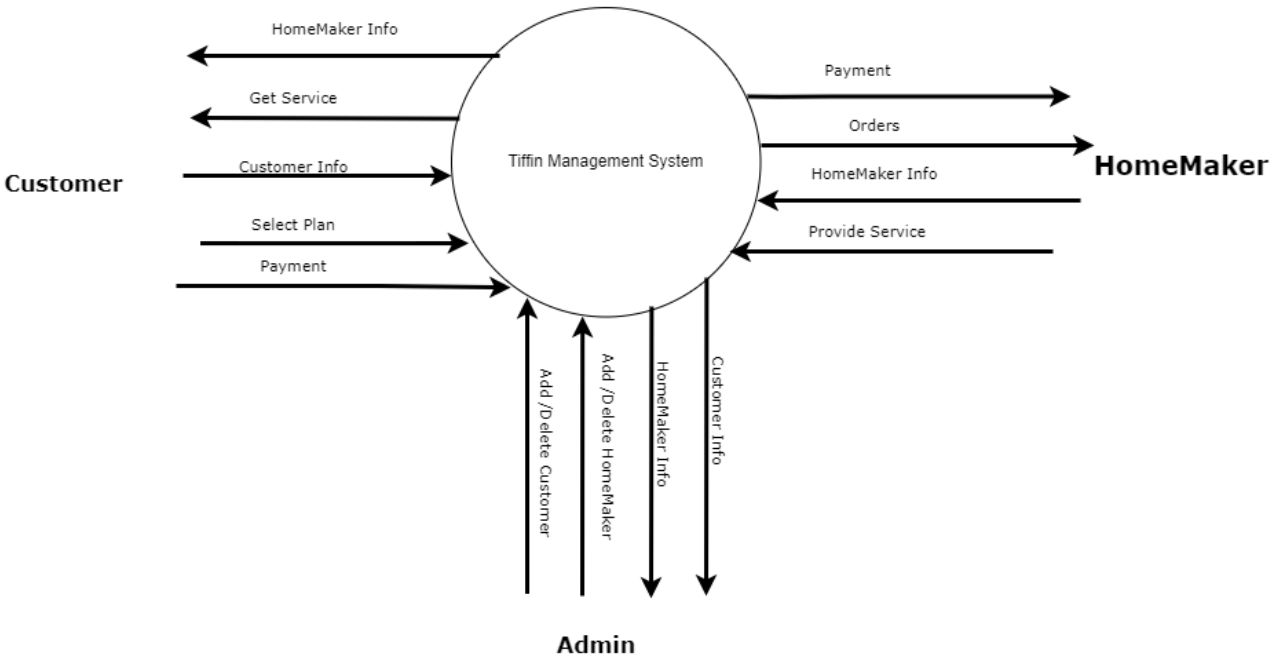
ER Diagram


Name
Email
Id
Admin
Password
PhoneNo
Name
PhoneNo
Address
Email
Package Name
Customer
N
HAS A
1
Address
PhoneNo
Email
Homemaker
Password
Id
Password
Plan Type
1
Id
Name
HAS
N
Date
Order
Id
Cust_Id
Status
Amount
Home Maker_Id

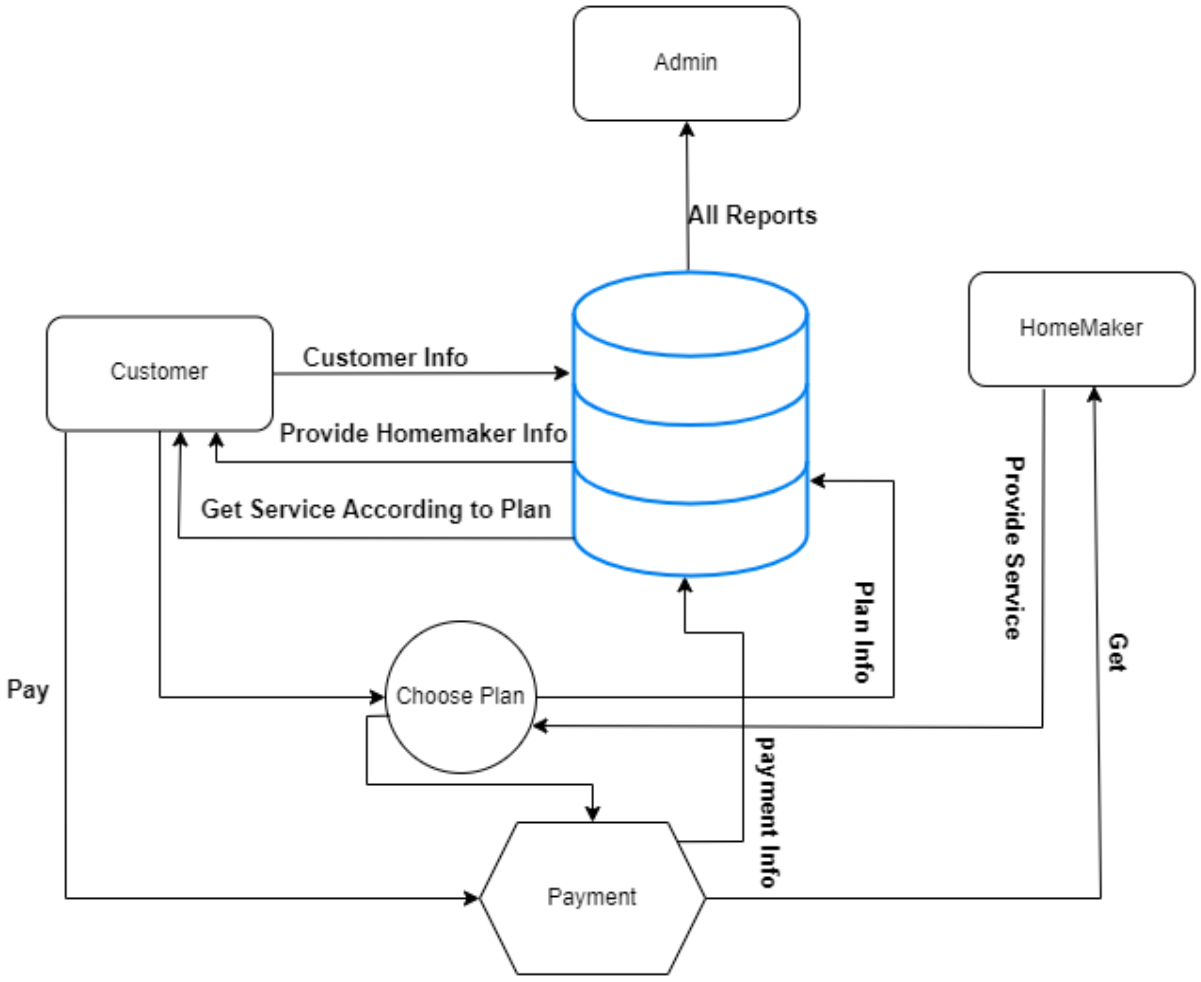
Class Diagram



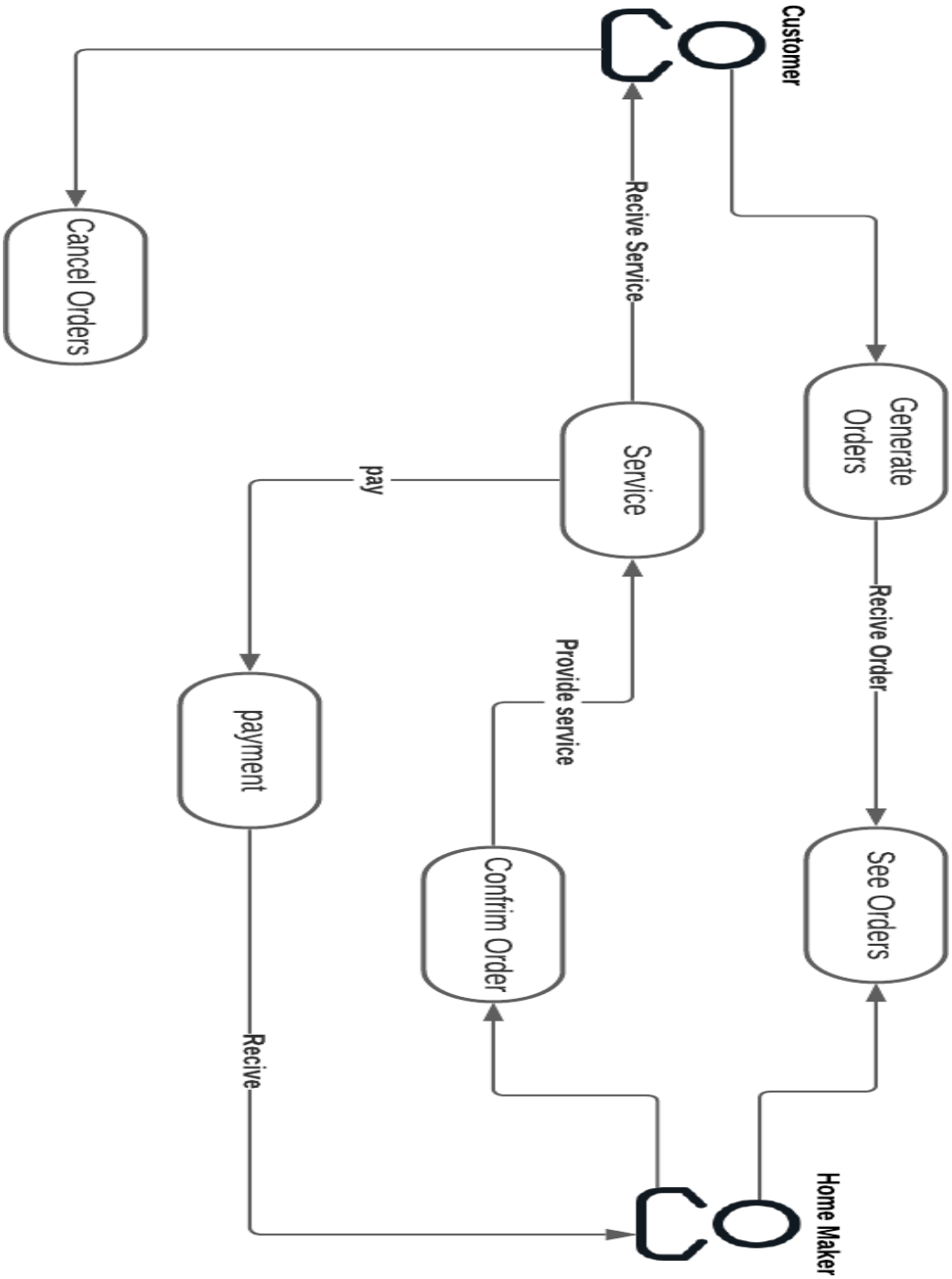
DFD-0 Diagram



DFD-1 Diagram

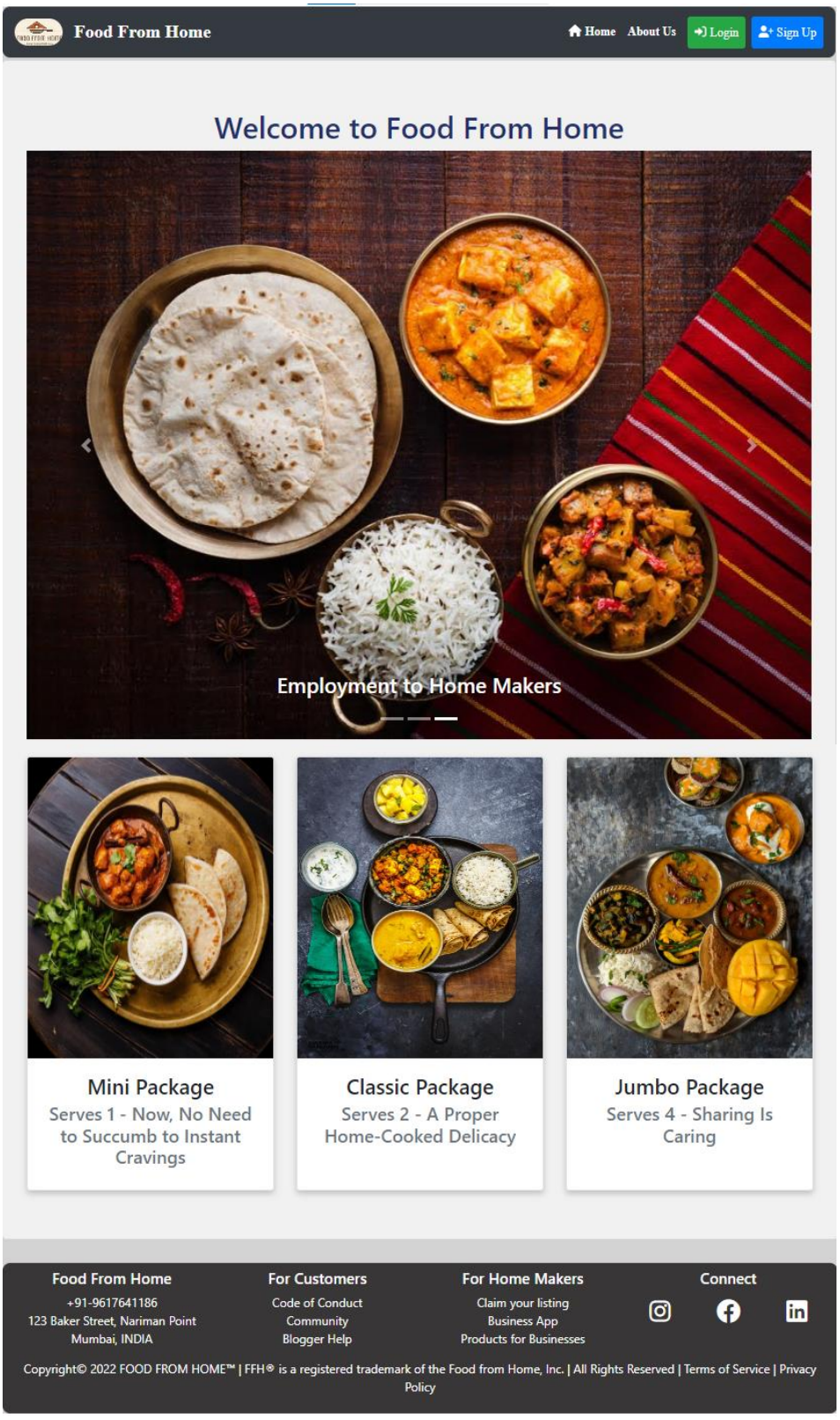


Use Case Diagram

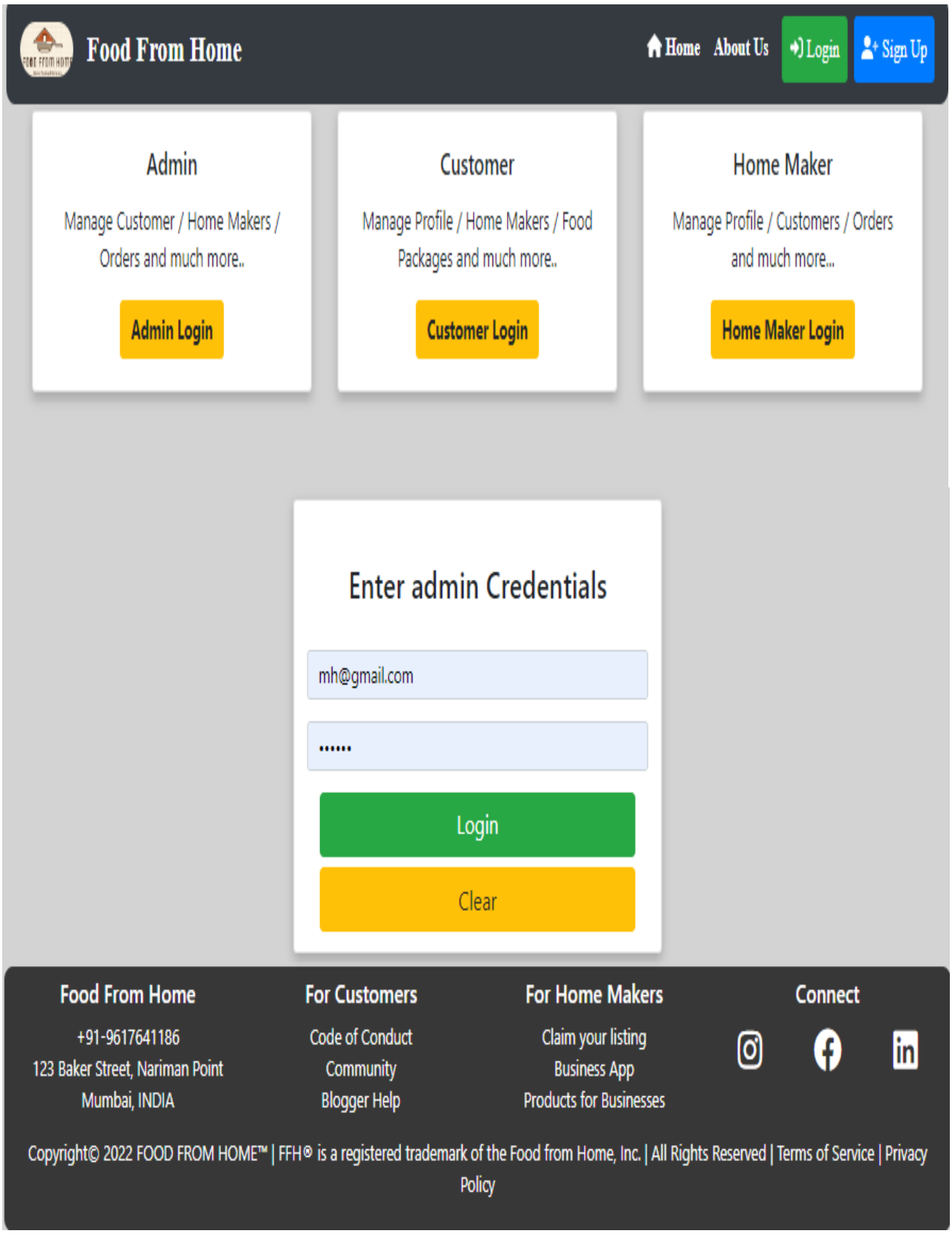


6. Interfaces

Home Page:



Login Page:


Food From Home
Home
About Us
Login
Sign Up
Admin
Manage Customer / Home Makers / Orders and much more..
Admin Login
Customer
Manage Profile / Home Makers / Food Packages and much more..
Customer Login
Home Maker
Manage Profile / Customers / Orders and much more...
Home Maker Login
Enter admin Credentials
mh@gmail.com
Login
Clear
Food From Home
+91-9617641186
123 Baker Street, Nariman Point
Mumbai, INDIA
For Customers
Code of Conduct
Community
Blogger Help
For Home Makers
Claim your listing
Business App
Products for Businesses
Connect
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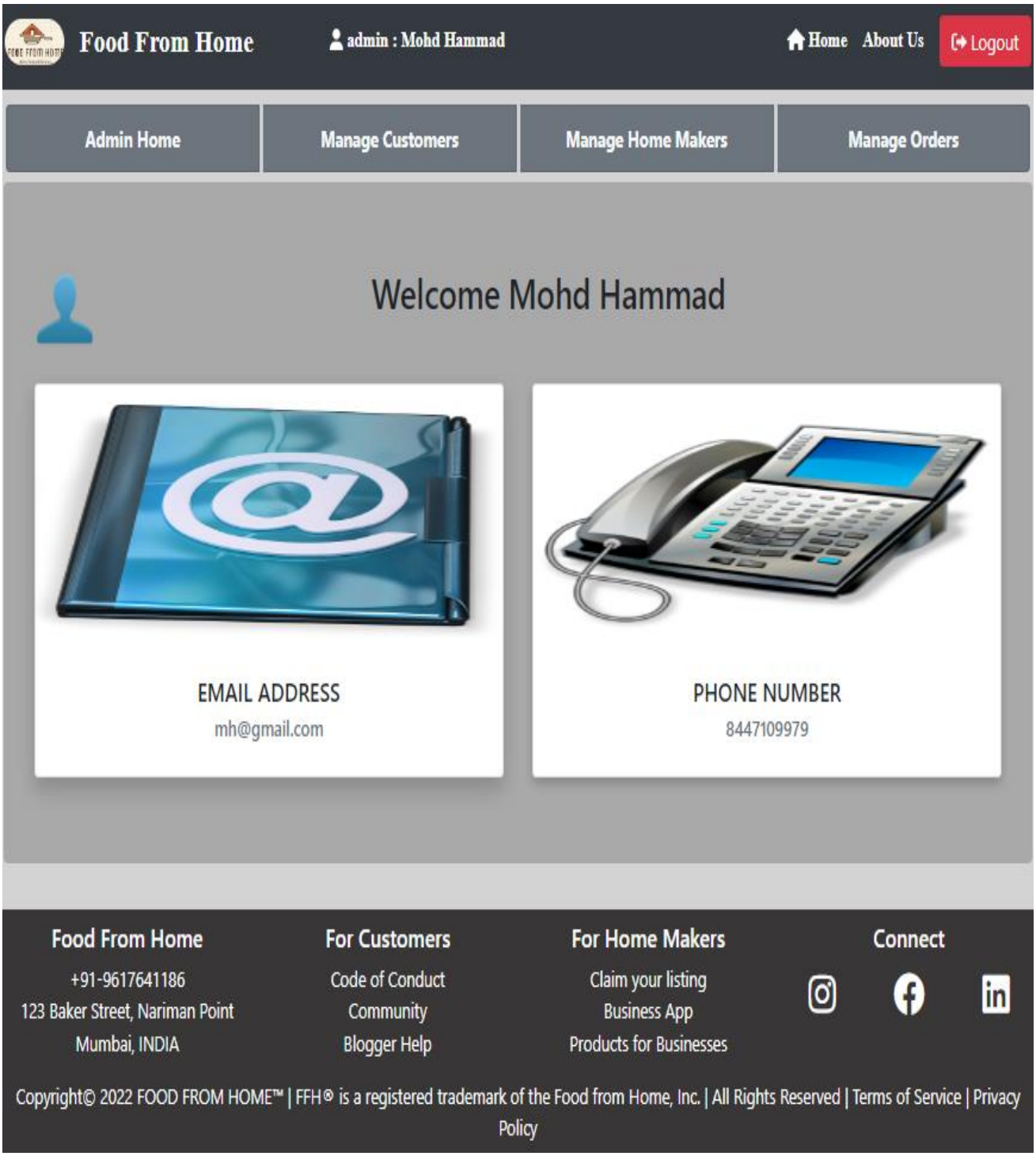
Admin Home:


Food From Home
admin : Mohd Hammad
Home
About Us
Logout
Admin Home
Manage Customers
Manage Home Makers
Manage Orders
Welcome Mohd Hammad
EMAIL ADDRESS
mh@gmail.com
PHONE NUMBER
8447109979
Food From Home
+91-9617641186
123 Baker Street, Nariman Point
Mumbai, INDIA
For Customers
Code of Conduct
Community
Blogger Help
For Home Makers
Claim your listing
Business App
Products for Businesses
Connect
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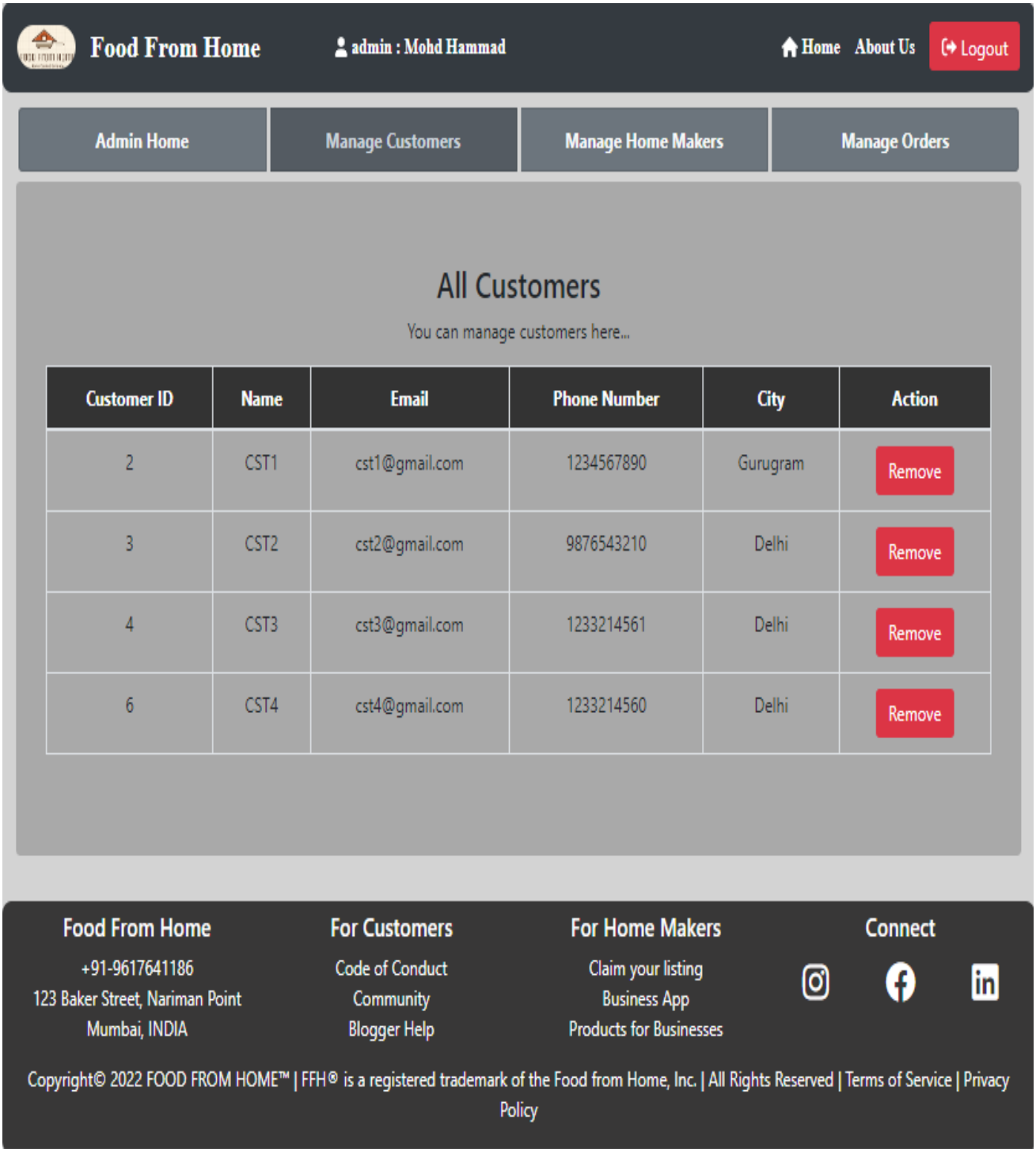
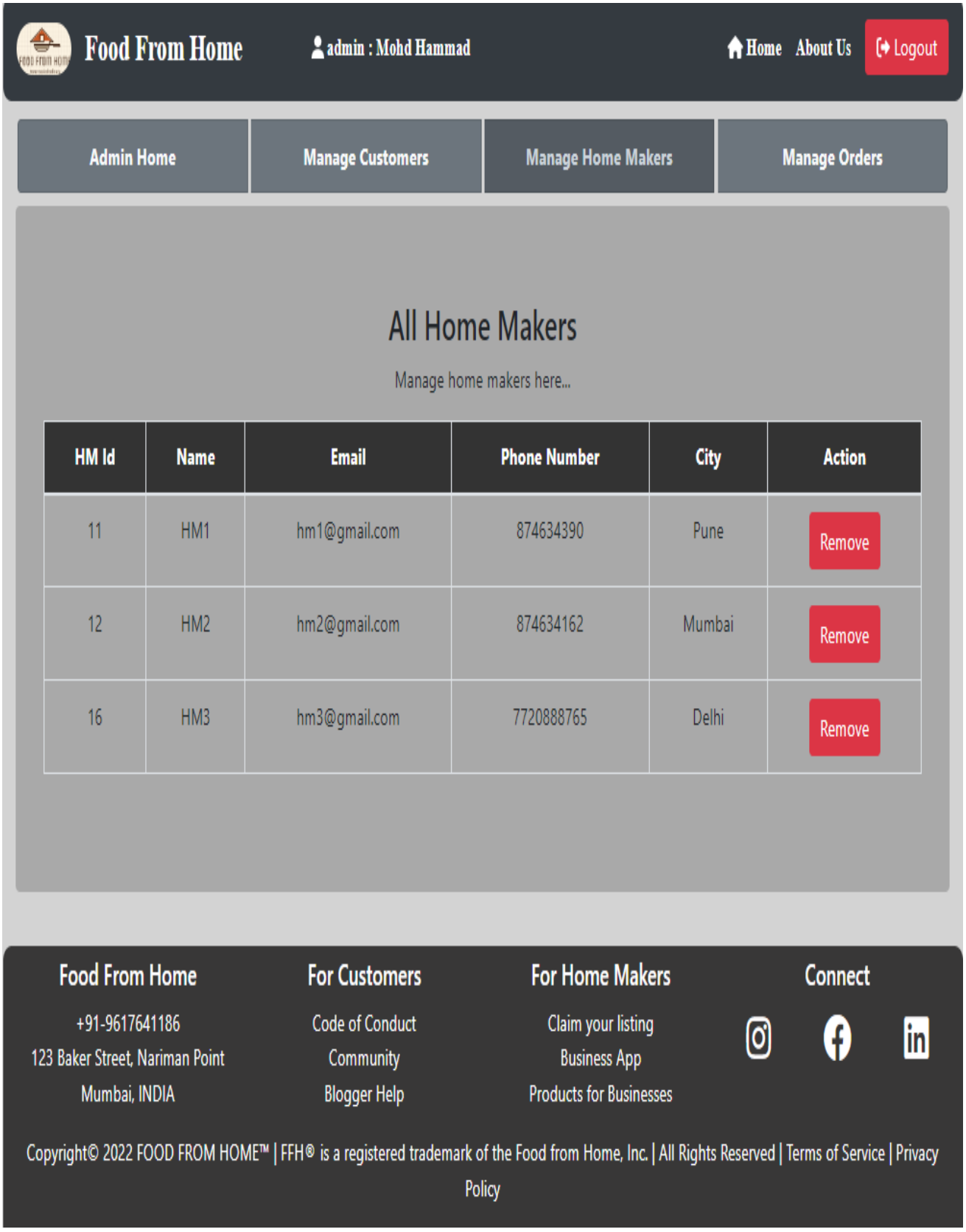
Manage Customers:

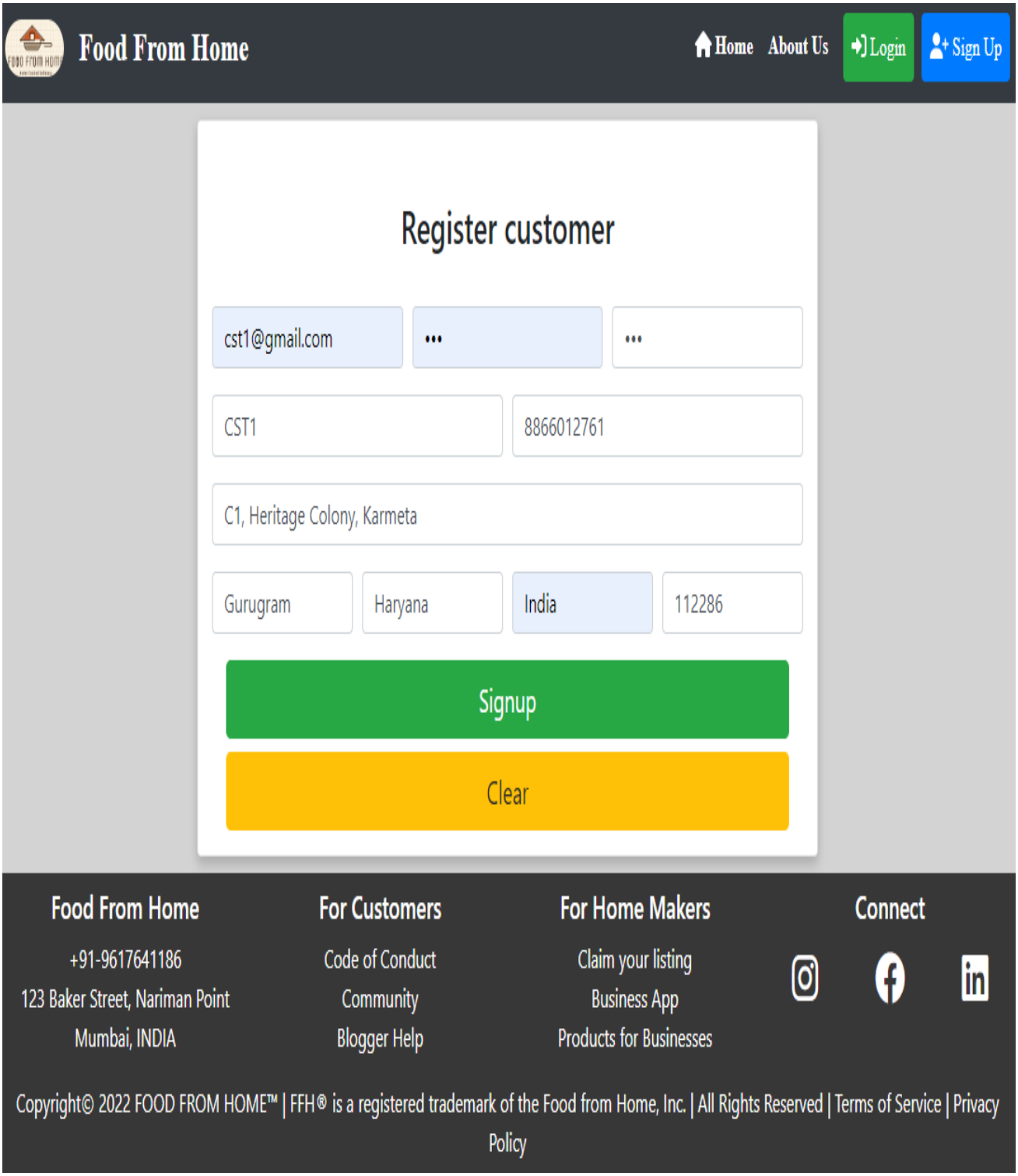


Manage HomeMakers:

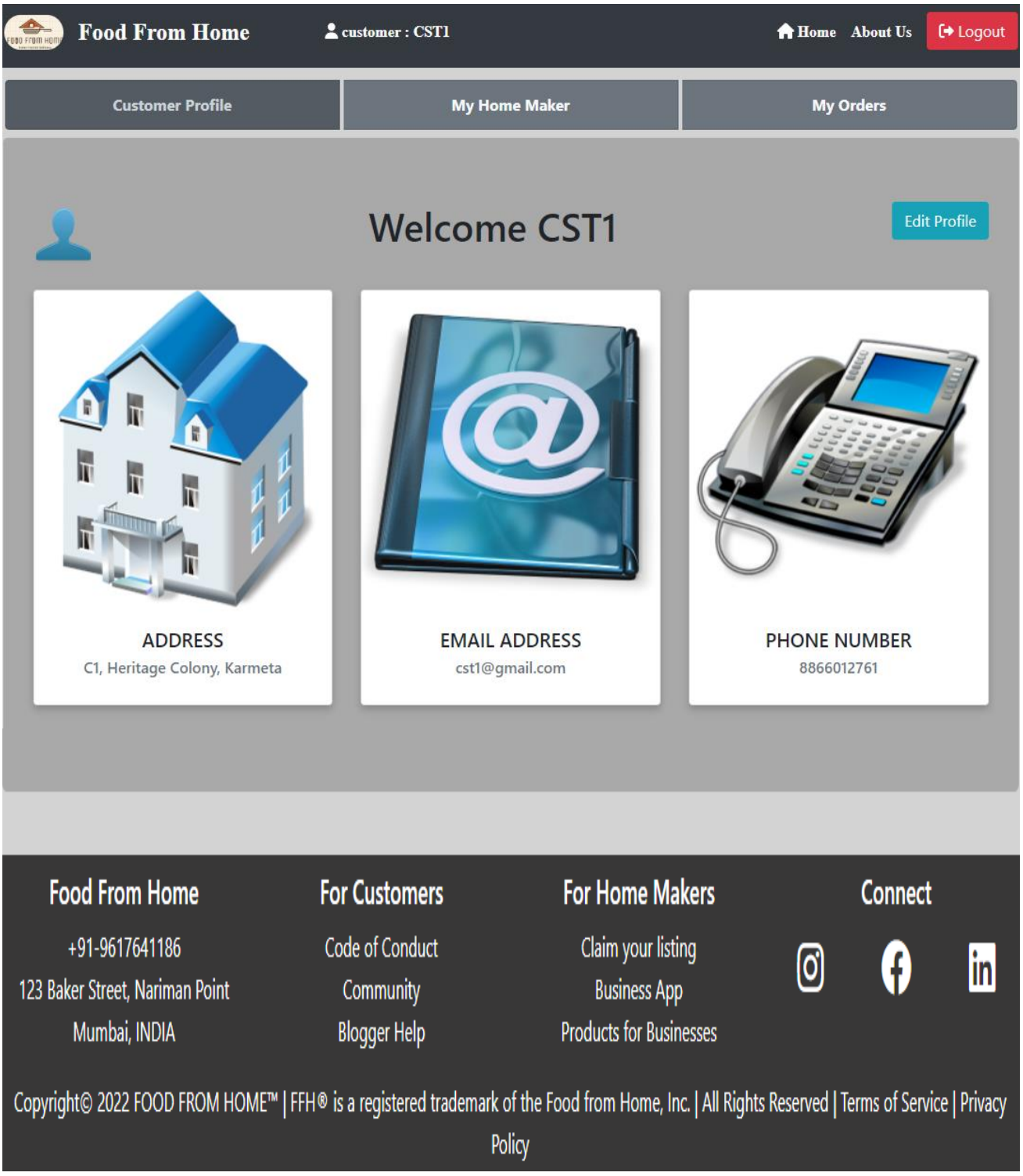


Manage Orders:

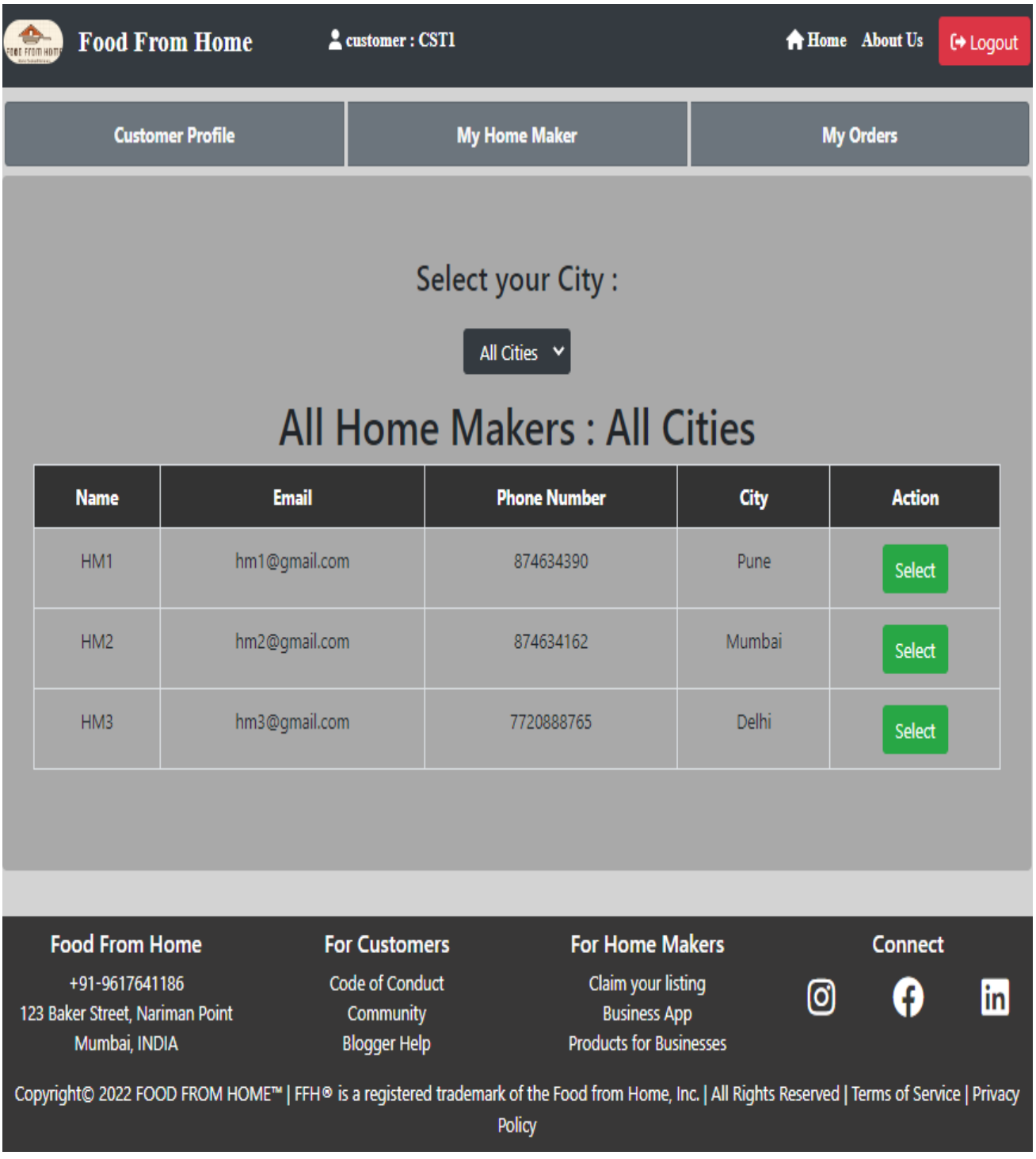
Customer Registration:



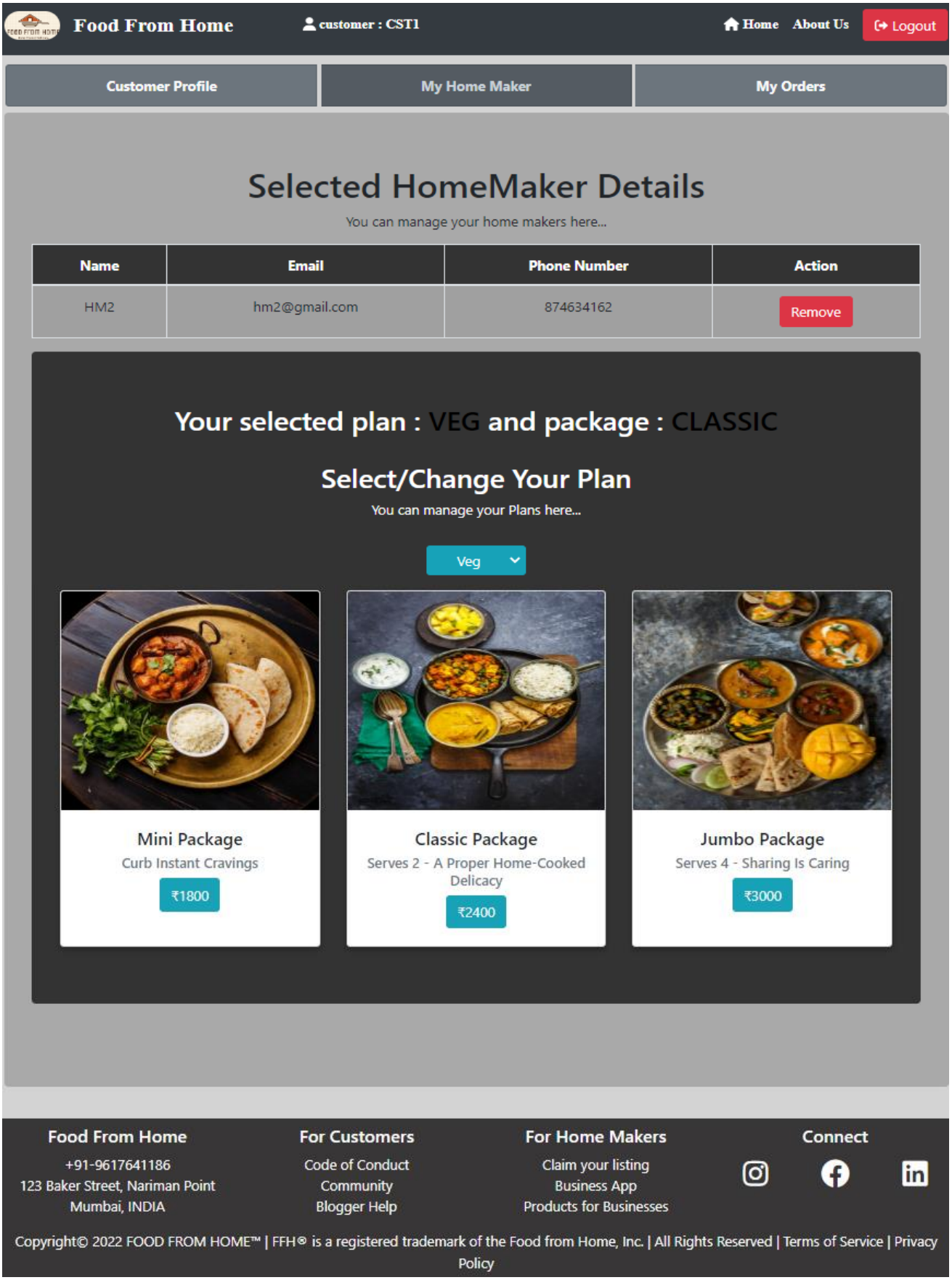
Customer Home Page:



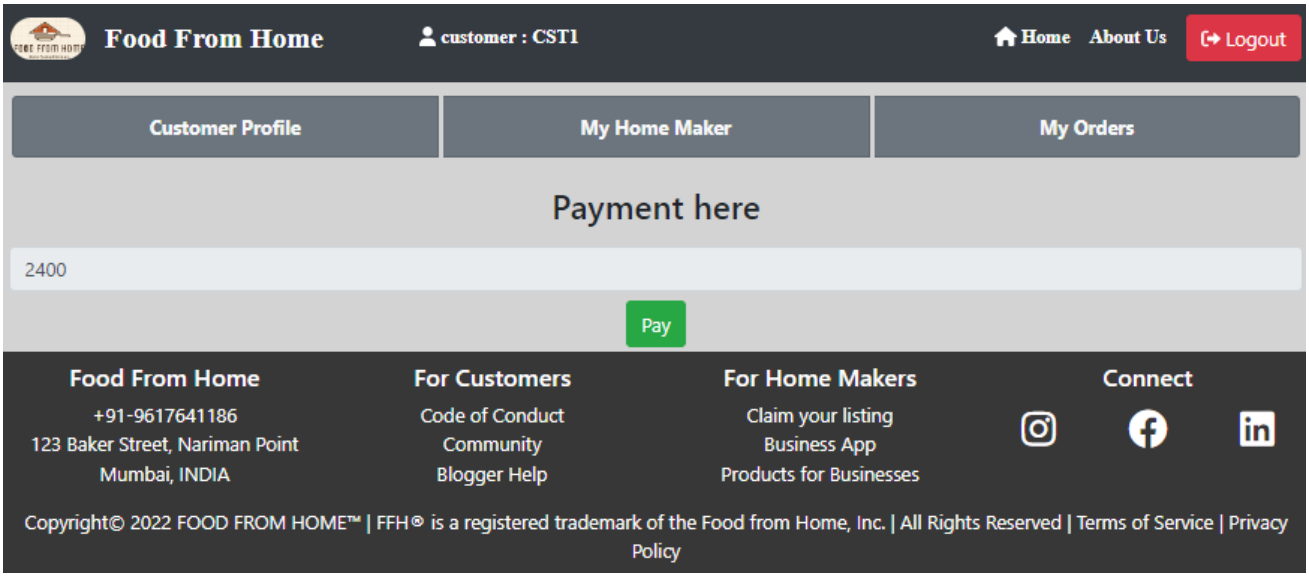
Select HomeMaker:



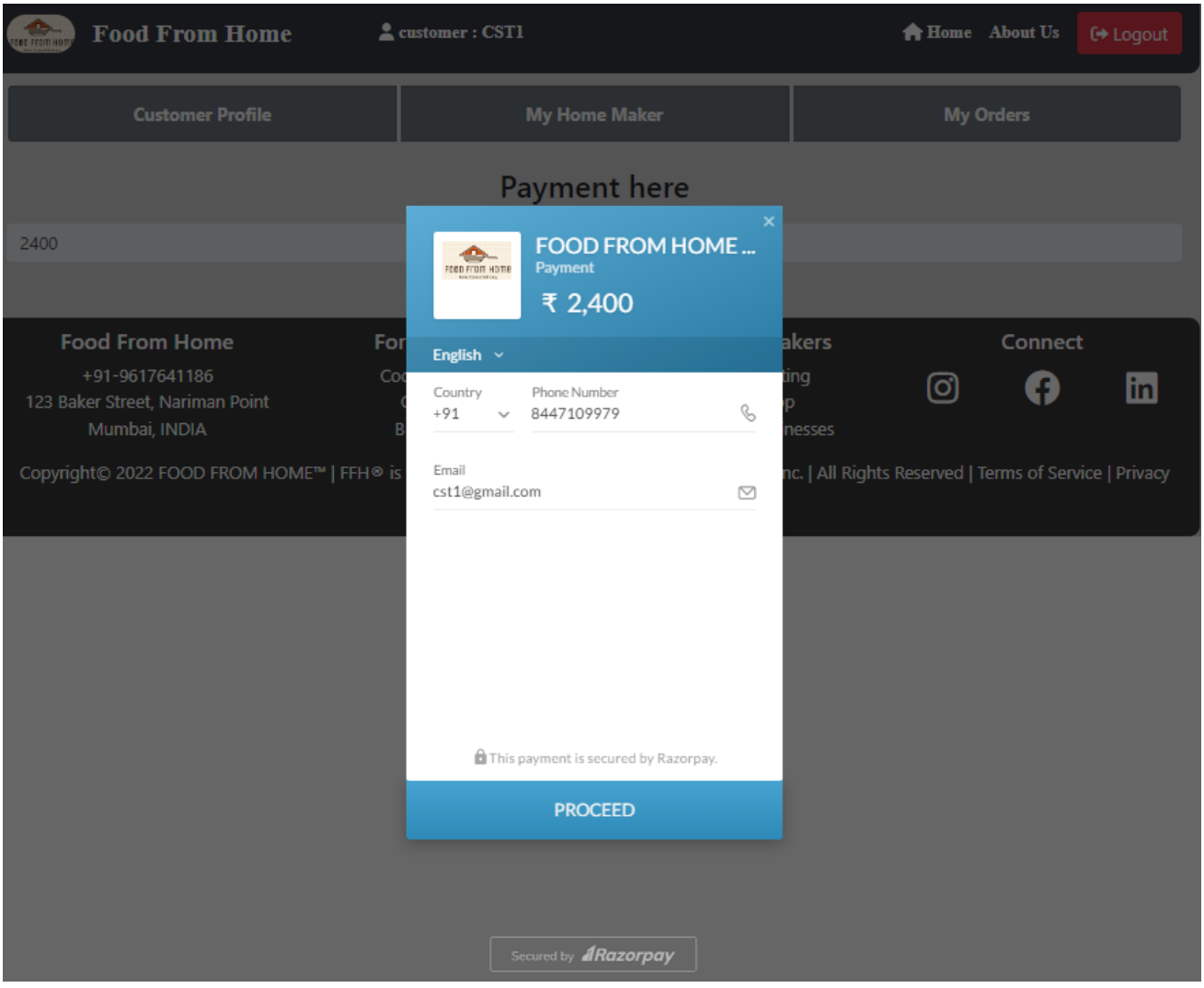
Select Plan and Package Type:



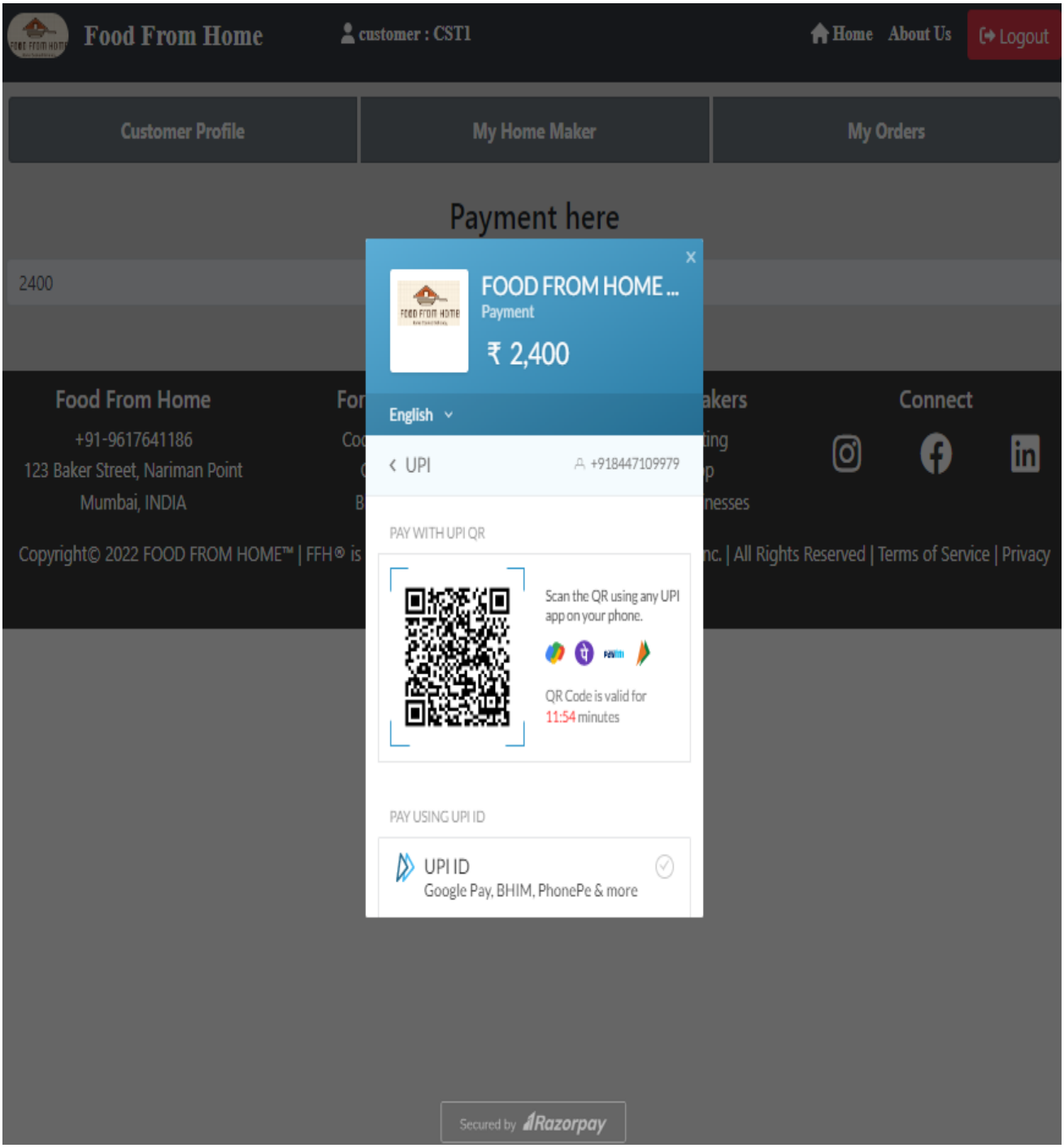
Confirm Payment:



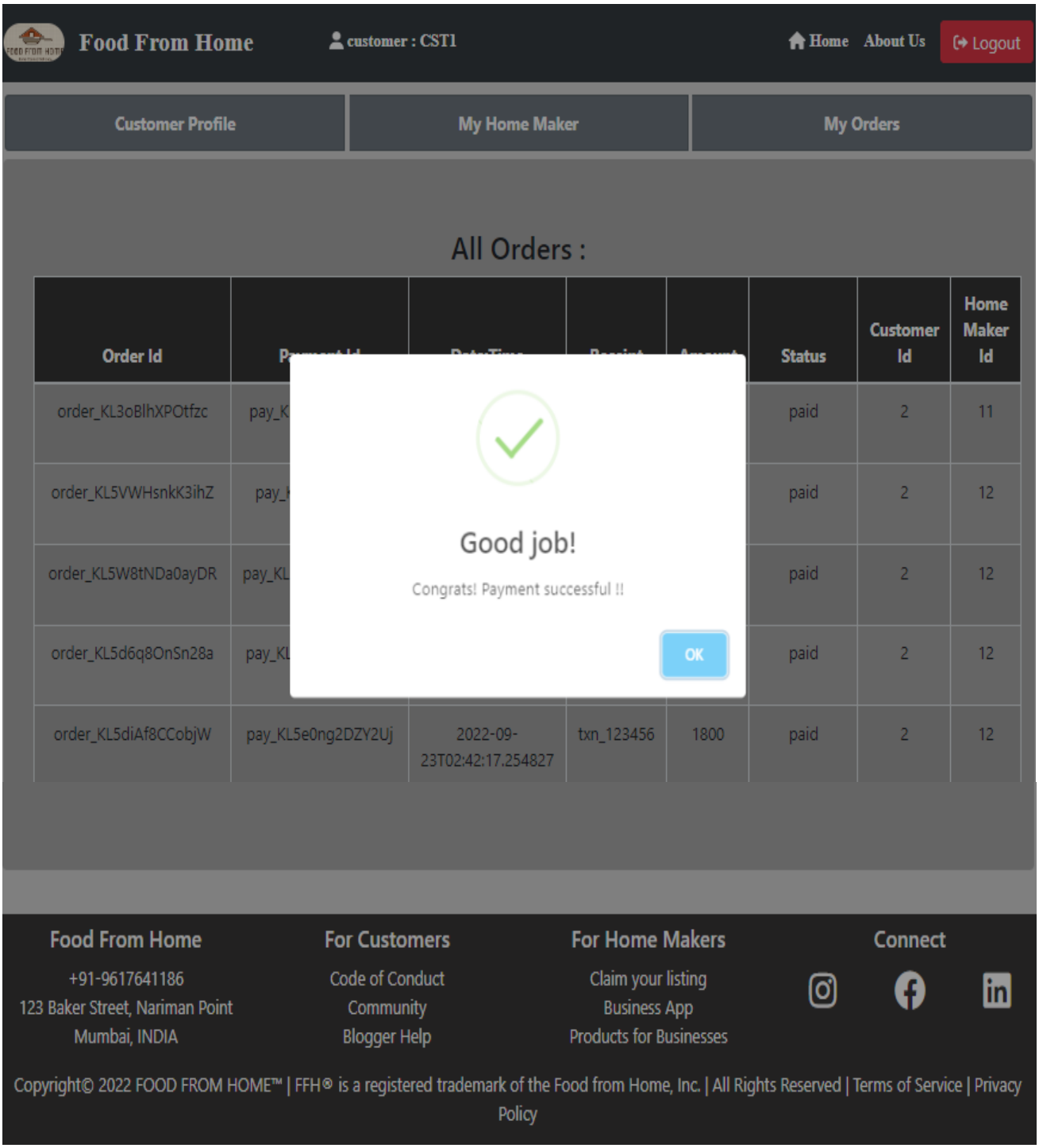
Payment initiated:



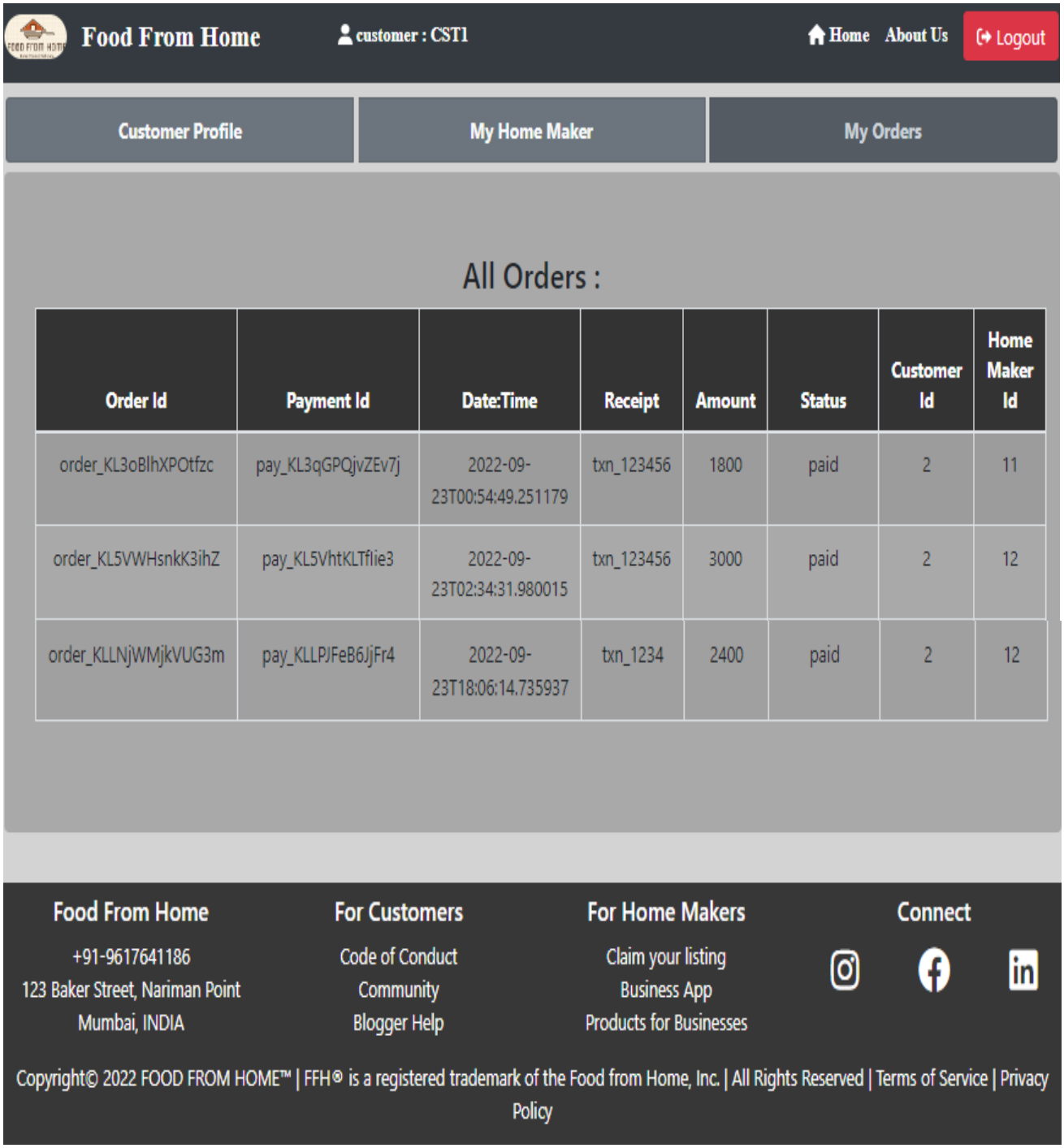
Select Payment Option:



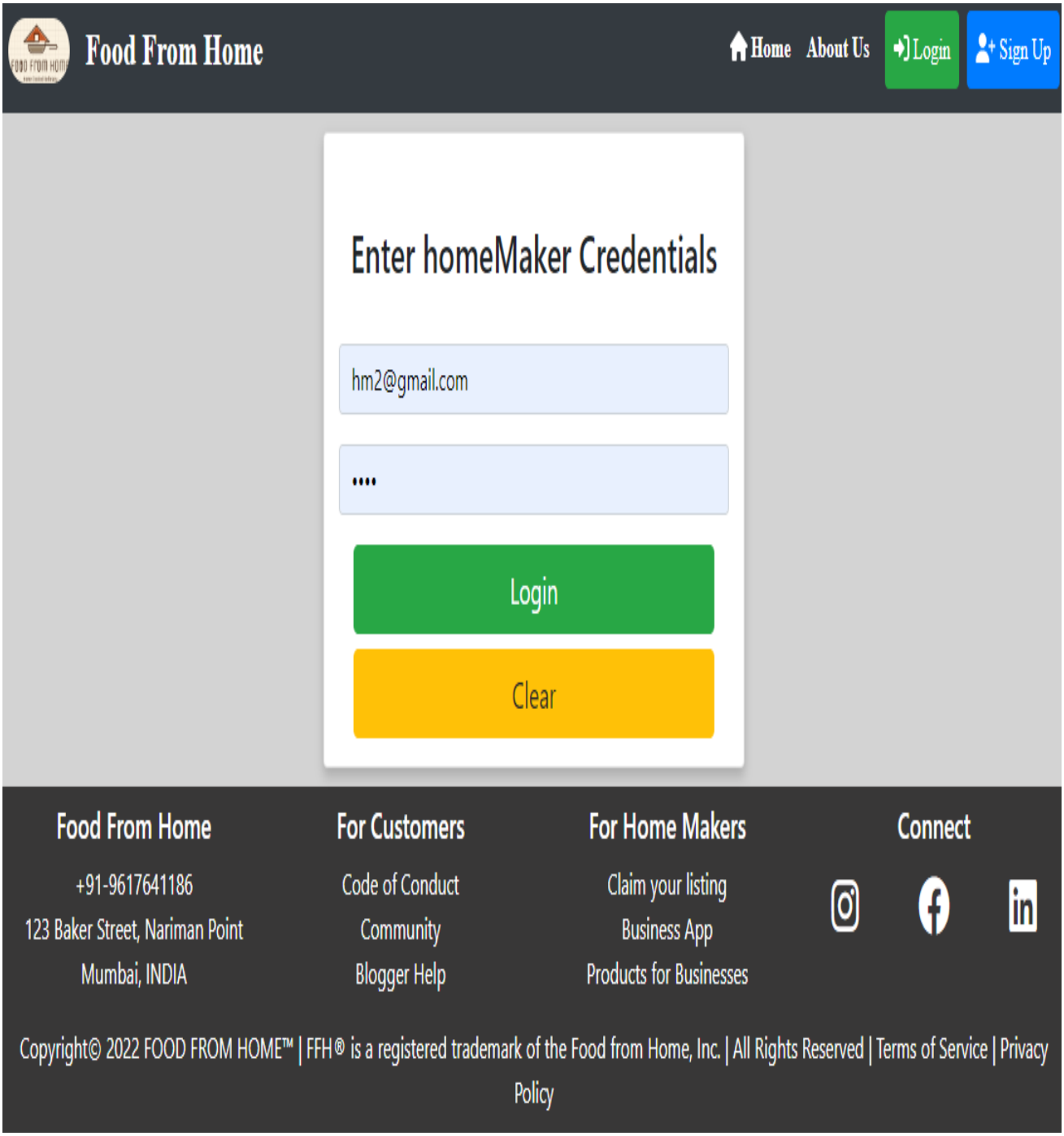
Order placed successfully:



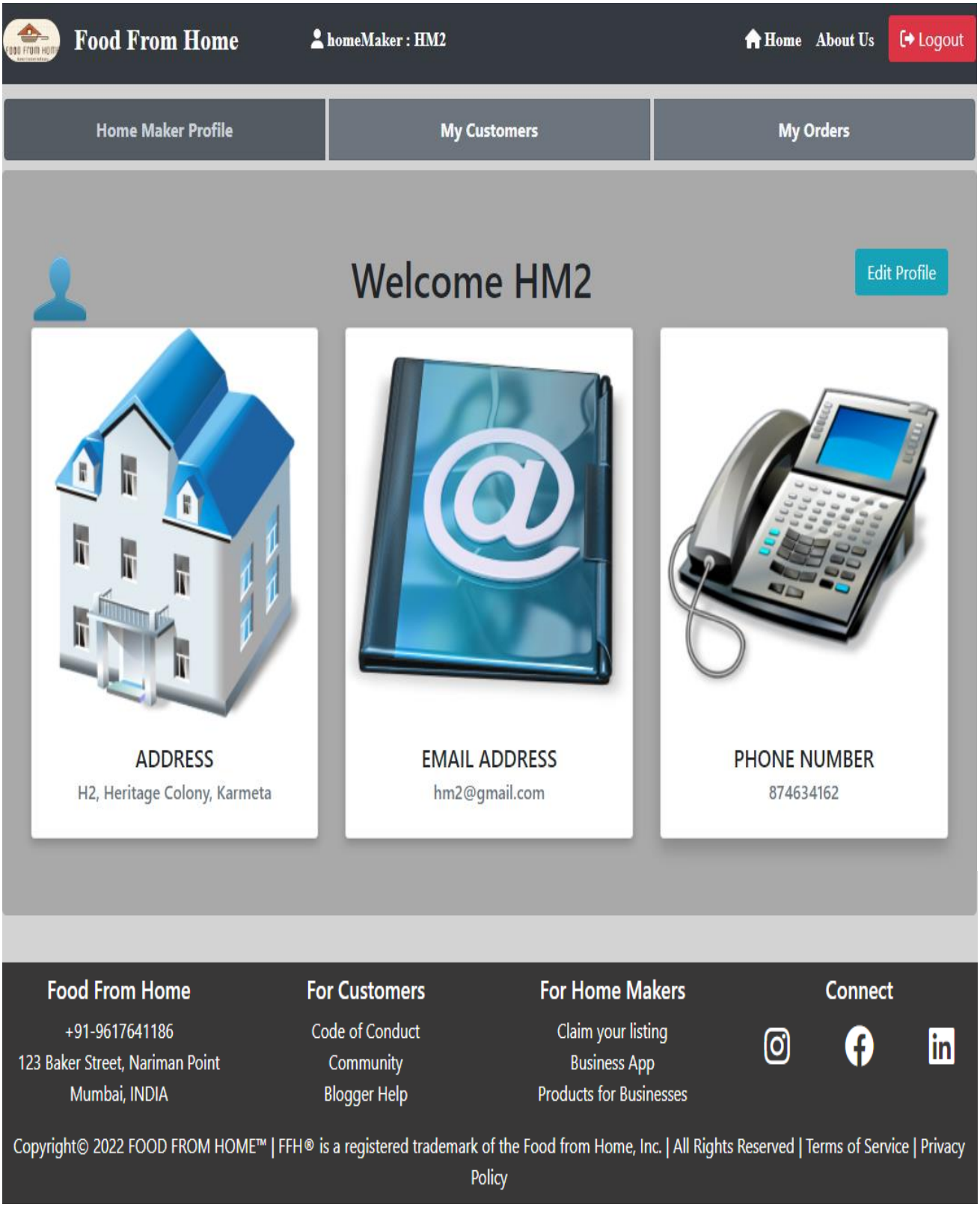
View all orders:



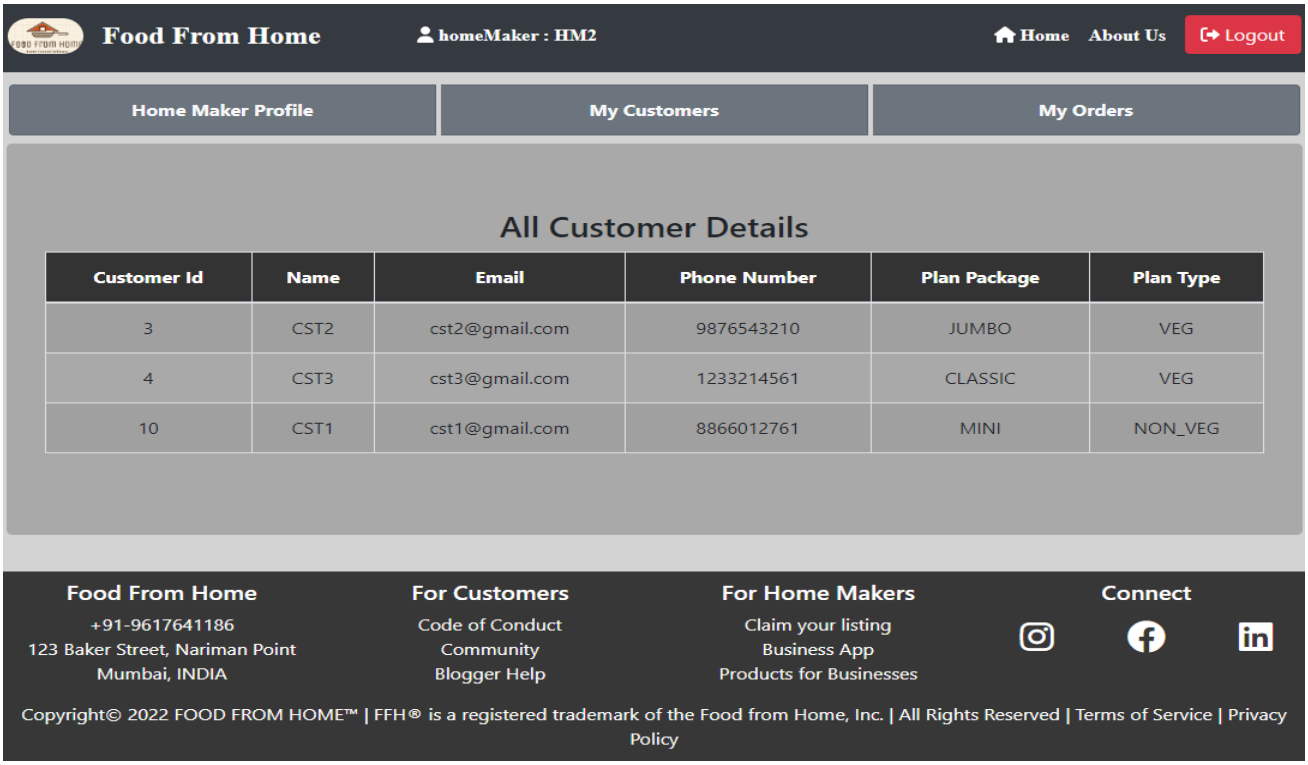
HomeMaker Login Page:



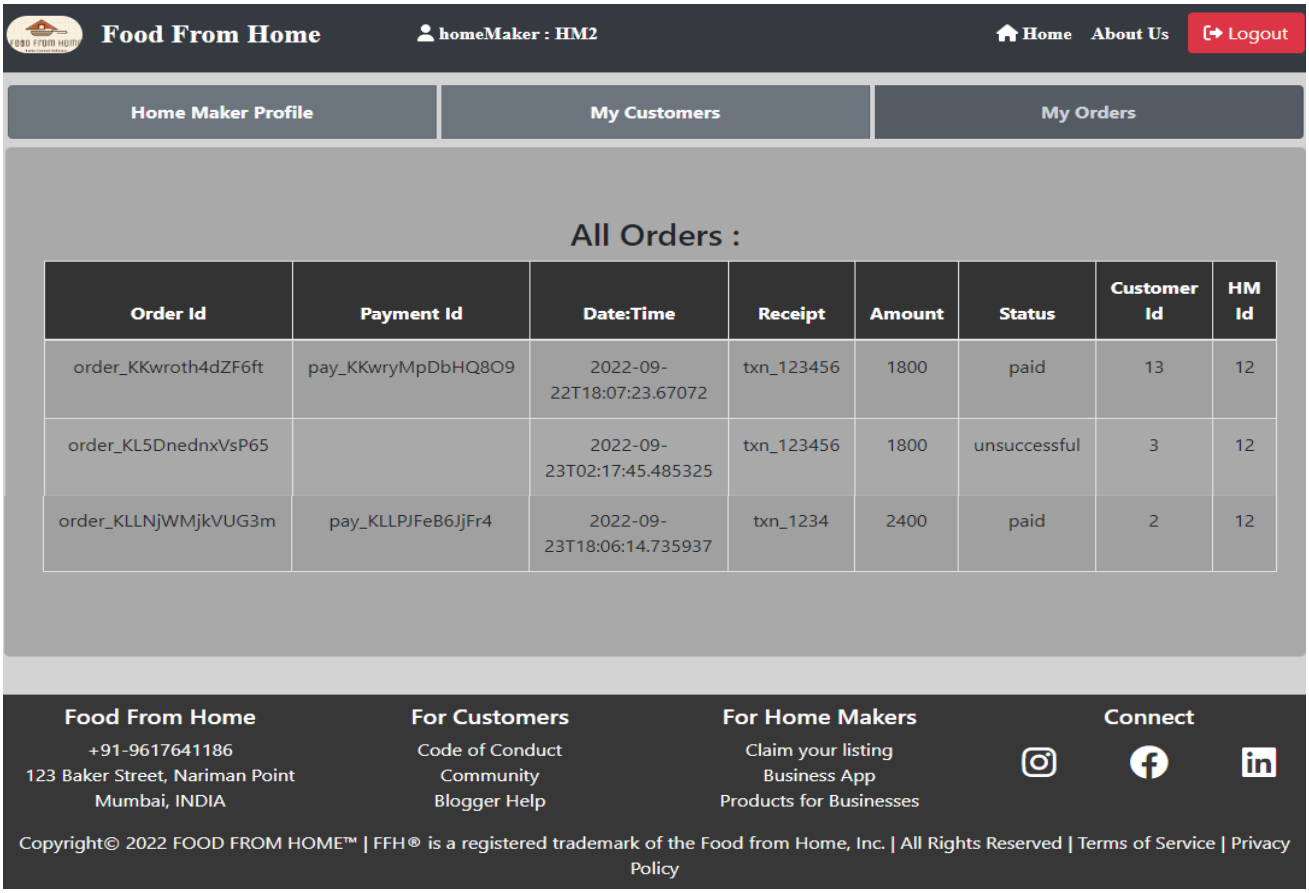
HomeMaker home page:



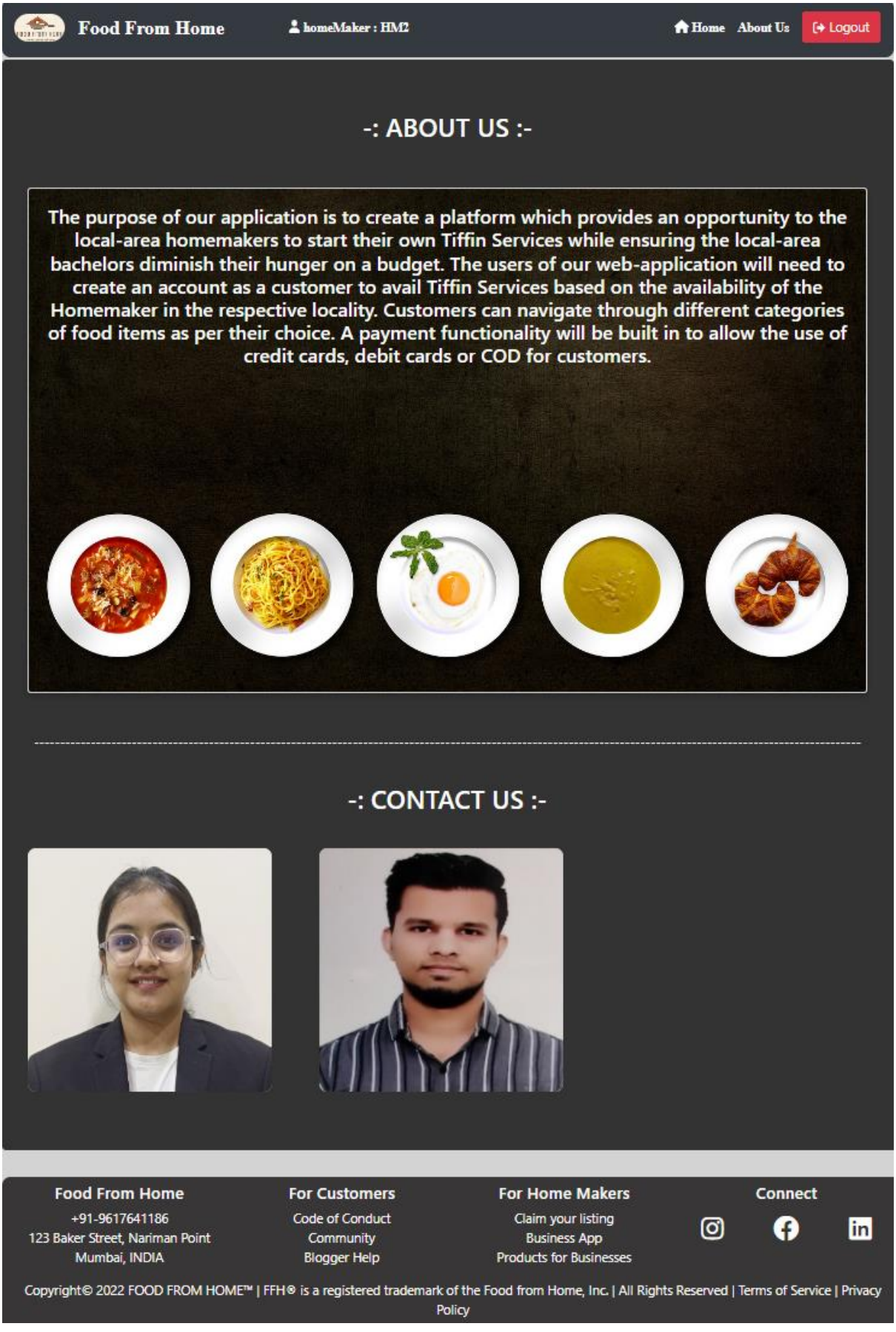
View Customers:



View Orders:



About Us:


Food From Home
homeMaker : HM2
Home
About Us
Logout
-: ABOUT US :-
The purpose of our application is to create a platform which provides an opportunity to the local-area homemakers to start their own Tiffin Services while ensuring the local-area bachelors diminish their hunger on a budget. The users of our web-application will need to create an account as a customer to avail Tiffin Services based on the availability of the Homemaker in the respective locality. Customers can navigate through different categories of food items as per their choice. A payment functionality will be built in to allow the use of credit cards, debit cards or COD for customers.
-: CONTACT US :-
Food From Home
+91-9617641186
123 Baker Street, Nariman Point
Mumbai, INDIA
For Customers
Code of Conduct
Community
Blogger Help
For Home Makers
Claim your listing
Business App
Products for Businesses
Connect
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Test Reports

The test of report is given here under:

Sr. no	Test Case Title	Description	Expected Outcome	Error Message	Result
1	Login Page-Admin	If User email=Admin email, Password= Admin Password	If Validated allow for Admin Home Page If not redirect to same page	Username and password required	Passed
2	Login Page – User	If User email=User email, Password= User Password	If Validated allow for User Home Page If not redirect to same page	Username and password required	Passed
3	Show Details of user	Admin can see status of given user.	User Details	No Error	Passed
4	Log out	User / Admin can logout by using Logout link	Successfully logout message	No Error	Passed

7. Future Scope

1. Live tracking of customer's order
2. Forgot Password
3. Messaging Services.
4. Delivery Service Integration

9. References

- https://reactjs.org/
- https://reactstrap.github.io/
- https://spring.io/projects/spring-boot