



## **INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT, AKURDI, PUNE**

Documentation On

### **“Falahaar”- Online Fruits Shopping Web Application**

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Submitted By:

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## ABSTRACT

This project is a web-based shopping system for an existing Fruit shop. The project objective is to able the buyer to access the online shopping application into web platform.

This project is an attempt to provide the advantages of online fruit shopping to customers of a real shop. It helps buying the fruits in the shop anywhere through internet by using a website device. Thus, the customer will get the service of online shopping and home delivery from his favorite shop. This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains.

If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as Dunzo. Since this application is available it is easily accessible and always available.



# ACKNOWLEDGEMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, **Mrs. Gauri Kadam** for providing me with the right guidance and advice at the crucial juncture and for showing me the right way. I extend my sincere thanks to our respected Centre Co-Ordinator **Mr. Rohit Puranik**, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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# Table of Contents

ABSTRACT.....	2
ACKNOWLEDGEMENT.....	3
INTRODUCTION.....	7
FEATURES .....	7
1.1 PROJECT OBJECTIVE.....	8
1.2 PROJECT OVERVIEW.....	8
1.3 PROJECT SCOPE .....	9
1.4 STUDY OF THE SYSTEM.....	9
1.4.1 MODULES.....	9
SYSTEM ANALYSIS.....	19
2.1 EXISTING SYSTEM.....	19
2.2 PROPOSED SYSTEM .....	19
2.3 SYSTEM REQUIREMENT SPECIFICATION.....	19
2.3.1 GENERAL DESCRIPTION.....	19
2.3.2 SYSTEM OBJECTIVES .....	20
2.3.3 SYSTEM REQUIREMENTS.....	20
DESCRIPTION OF FEATURES.....	23
ADMIN.....	23
SYSTEM DESIGN.....	25
3.1 INPUT/OUTPUT DESIGN.....	25
DATABASE DESIGN.....	25
3.2 DATABASE DESIGN.....	27
3.3 SYSTEM TOOLS.....	27
3.4 FRONTEND.....	27
3.5 BACKEND.....	27

# LIST OF FIGURE

FIGURE 1: ADMIN USECASE DIAGRAM -----	11
FIGURE 3: CUSTOMER USECASE DIAGRAM -----	15
FIGURE 5: LEVEL DFD FOR ADMIN-----	28
FIGURE 6: LEVEL DFD FOR CUTOMER-----	29
FIGURE 7: ACTIVITY DIAGRAM-----	29
FIGURE 8: E-R DIAGRAM-----	30
FIGURE 9: CLASS DIAGRAM -----	31
FIGURE 10: SEQUENCE DIAGRAM STRUCTURE -----	32
FIGURE 11: TABLE STRUCTURES -----	37
FIGURE 12: PROJECT DIAGRAMS -----	37

# INTRODUCTION

This project is a web-based Fresh Fruit shopping system for an existing shop. An Online Fruit Shopping Management System where the Admin can Add, Update and Delete Fruits. The Fruits are divided into various categories like Vit A,B,C,D,B12 etc. A user can select a particular category fruit to view the details, choose the number of items and fill in details like Name, Address, etc. to buy a fruits the project objective is to deliver the online shopping application into web platform. Online fruits shopping is the process whereby consumers directly buy goods or services from a seller in real- time, without an intermediary service, over the Internet. It is a form of electronic commerce. This project is attempts provide the advantages of online fruits shopping to customers of a real shop. It helps buying the fresh fruits in the shop anywhere through internet by using an android device. Thus, the customer will get the service of online shopping and home delivery from his favorite shop. The objective of the project is to make an application platform to purchase items in an existing shop. In order to build such an application complete web support, need to be provided. A complete and efficient web application which can provide the online shopping experience is the basic objective of the project. The web application can be implemented in the form of an application with web view.

## **Features: -**

1. Fruits Available-Orange, Banana, Papaya
- 2.Category of Fruits-vit A,B,C,D,B12
- 3.Cart Feature-
4. The admin can add/delete/edit fruits and its categorpies
- 5.user can maintain cart



## **1.1 PROJECT OBJECTIVE**

The objective of the project is to make an application platform to purchase fresh fruits in an existing shop. In order to build such an application complete web support, need to be provided. A complete and efficient web application which can provide the online shopping experience is the basic objective of the project. The web application can be implemented in the form of an web application with web view.

## **1.2 PROJECT OVERVIEW**

The central concept of the application is to allow the customer to shop for fresh fruits virtually using the internet and allow customers to buy the items and articles of their desire from the store. The information pertaining to the products are stores on an RDBMS at the server side (store). The server processes the customers, and the items are shipped to the address submitted by them. The application was designed into two modules first is for the customers who wish to buy the articles. Second is for the storekeepers who maintains and updates the information pertaining to the articles and those of this product is a departmental store where the application is hosted on the web and the administrator maintains the database. The application, which is deploy the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction. Data entry into the application can be done through various screens designed for various levels of users. Once the authorized personal feed the relevant data into the system, several reports could be generated as per the security.

## **1.3 PROJECT SCOPE**

This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains. The system recommends a facility to accept the orders 24X7 and a home delivery system which can make customers happy. If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as Dunzo or BigBasket. Since the application is available and always available.

## **1.4 STUDY OF THE SYSTEM**

### **1.4.1 MODULES:**

The system after careful analysis has been identified to be presented with the following modules and roles. The modules involved are:

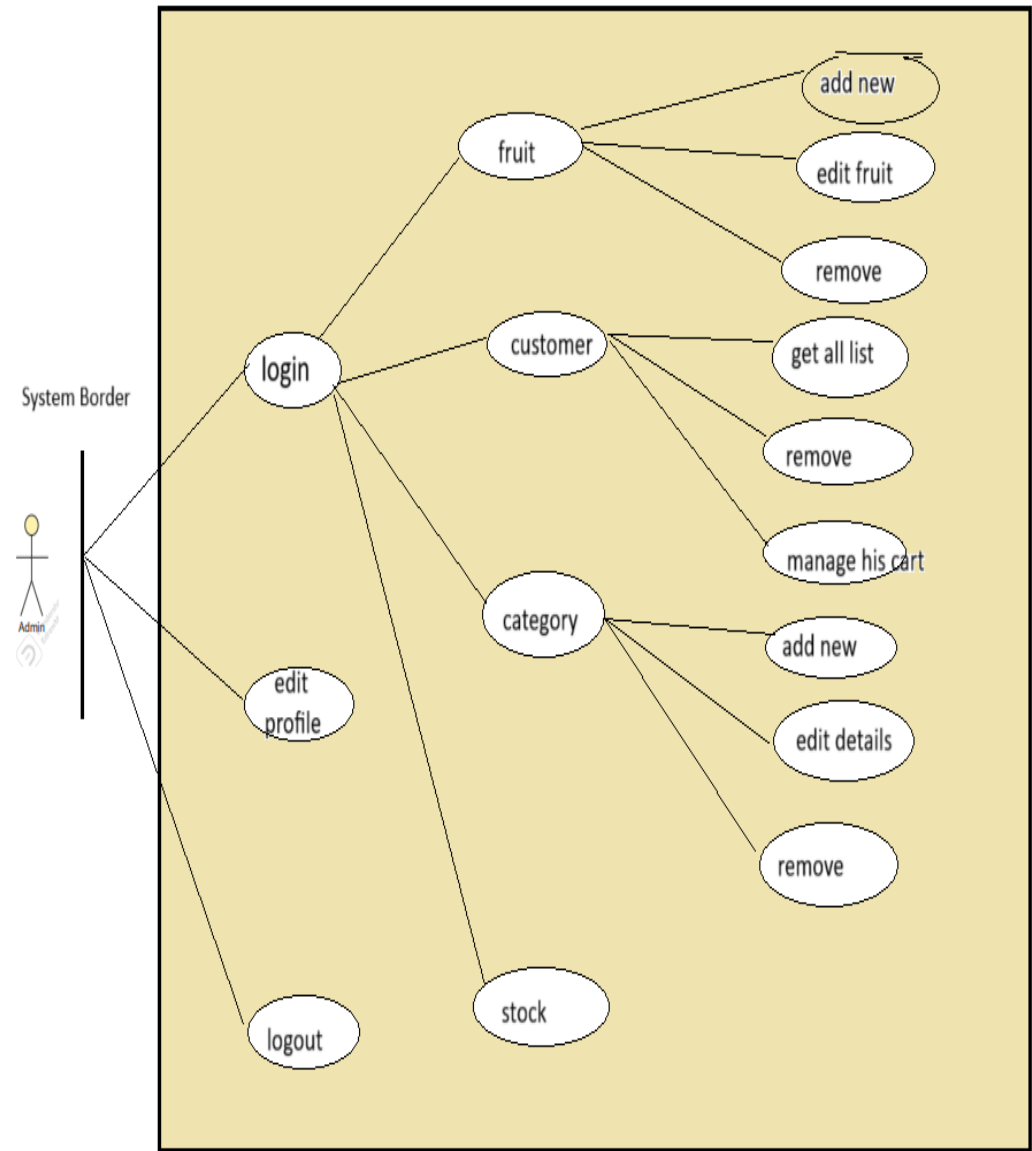
- User : Admin ,Customer
- Fruits
- Categories
- Cart
- Address
- Payments

#### **1.4.1.1 Administrator:**

The administrator is the super user of this application. Only admin have access into this admin page. Admin may be the owner of the shop. The administrator has all the information about the users and about all fresh fruits. This module is divided into different sub modules.

1. Manage Stocks
2. Manage Fruits
3. Manage Users
4. Manage Orders
5. Manage Categories

Admin use case diagram



### ➤ **Add Fruits and Categories**

The shopping cart contains different kinds of fruits of different category. The fruits can be classified into different categories by name. Admin can add new fruits into the existing system with all its details.

### ➤ **Delete Fruits and Categories**

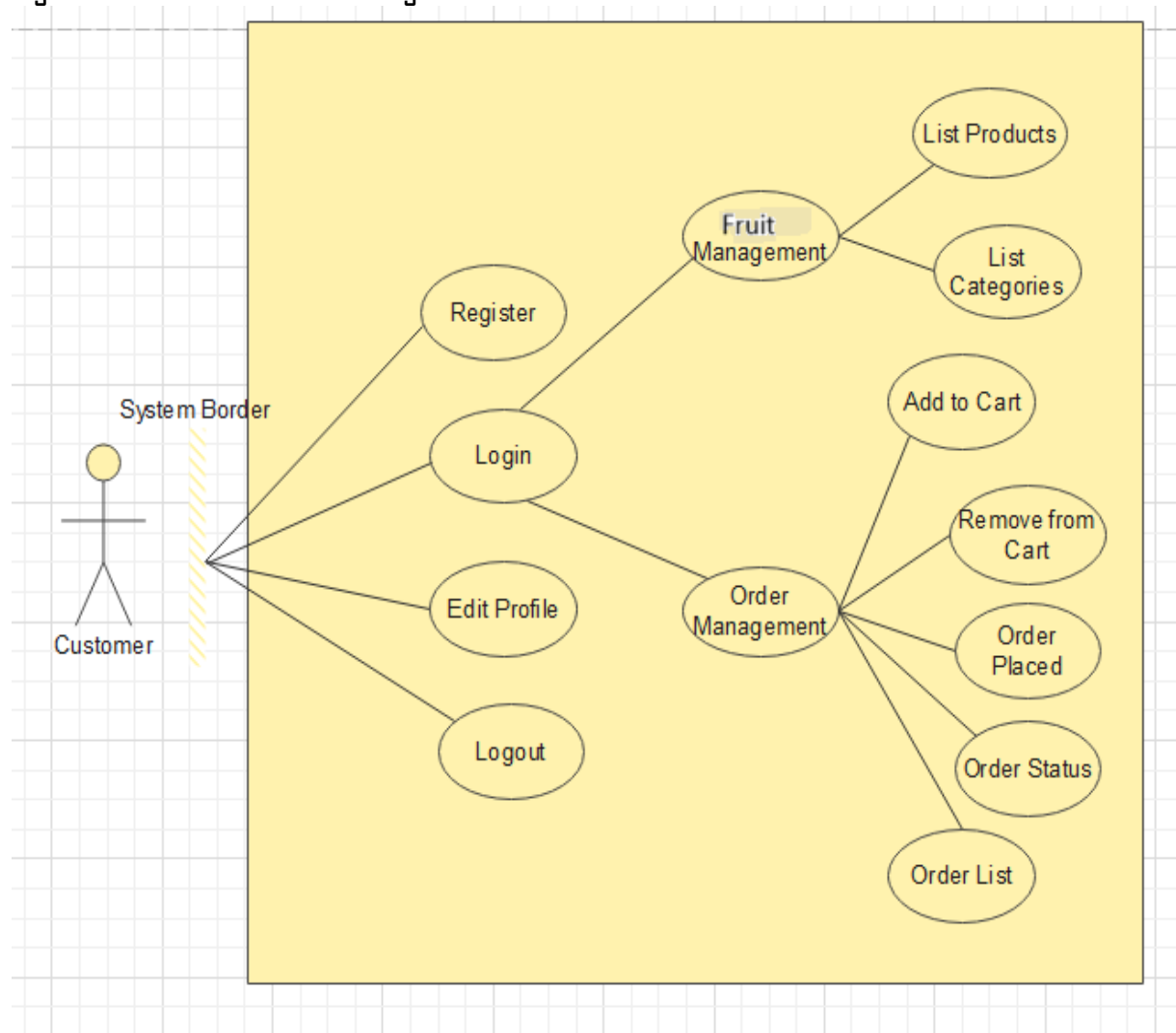
Administrator can delete the fruits based on the stock of that particular product.

➤ Search fruits Admin will have a list view of all the existing fruits.

### ➤ **Edit Fruits and Categories**

Only admin is having the privilege to add a fruits and categories. He can search the product to manage the product

Figure: Customer UseCase Diagram



➤ Customer sign in, sign out, create account

This feature is provided to customer so he can sign in, sign out and create account for new customer.

➤ Search fruit

Customer can search the fruit as per his wish in specific category.

➤ Add to Cart

Customer can add fruits to cart which he wants to buy the fruits.

➤ Payments

Customer have a privilege to his order he can see his order details.

➤ Order Details Customer have a privilege to his order he can see his order details.

➤ Buy fruits

Customers can buy product from his cart by doing payment.

# SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems, and using the information to recommend improvements on the system. System analysis is a problem-solving activity that requires intensive communication between the system users and system developers. System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified, and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

## 2.1 EXISTING SYSTEM

The current system for Fresh fruits shopping is to visit the shop manually and from the available product choose the item customer want and buying the item by payment of the price of the item.

- ✓ It is less user-friendly.
- ✓ User must go to shop and select fruits.
- ✓ It is difficult to identify the required fruit.
- ✓ Description of the fruit limited.
- ✓ It is a time-consuming process
- ✓ Not in reach of distant users



## **2.2 PROPOSED SYSTEM**

In the proposed system customer need not go to the shop for buying the fruits. He can order the product he wish to buy through the application in his Smartphone. The shop owner will be admin of the system. Shop owner can appoint moderators who will help owner in managing the customers and product orders. The system also recommends a home delivery system for the purchased products.

## **2.3 SYSTEM REQUIREMENT SPECIFICATION**

### **2.3.1 GENERAL DESCRIPTION**

#### **Product Description:**

The system consists of two parts. A web application which can provide the online shopping service for the customer to access the web service from his Smartphone/System. Web application should be able to help the customer for selecting his item and to help the owner in managing the orders from the customers.

#### **Problem Statement:**

As online Fruits shopping became a trend nowadays the regular shops are losing their customers to online brands. Customers have effortless shopping experience and saving time through shopping online. For competing with those online brands, if shops are providing an online portal where their customers can shop through internet and get the products at their doors it will increase the number of customers

### **2.3.2 SYSTEM OBJECTIVES**

- To provide a Web application for online shopping of fruits in an existing shop.
- To provide an online shopping web site for the same shop.

## **2.3.3 SYSTEM REQUIREMENTS**

### **2.3.3.1 NON-FUNCTIONAL REQUIREMENTS**

#### **i. EFFICIENCY REQUIREMENT**

When an online shopping cart application implemented customer can purchase product in an efficient manner.

#### **ii. RELIABILITY REQUIREMENT**

The system should provide a reliable environment to both customers and owner. All orders should be reaching at the admin without any errors.

#### **iii. USABILITY REQUIREMENT**

The Web application is designed for user friendly environment and ease of use.

#### **iv. IMPLEMENTATION REQUIREMENT**

Implementation of the system using React in front end with Spring Boot as back end and it will be used for database connectivity. And the database part is developed by MySQL. Responsive web designing is used for making the website compatible for any type of screen.

#### **v. DELIVERY REQUIREMENT**

The whole system is expected to be delivered in one month of time with a weekly Evaluation by the project guide.

## 2.3.3.2 FUNCTIONAL REQUIREMENTS

### USER

#### ➤ USER LOGIN

Description of feature This feature used by the user to login into system. A user must login with his username and password to the system after registration. If they are invalid, the user not allowed to enter the system.

#### Functional Requirement

- Username and password will be provided after user registration is confirmed.
- Password should be hidden from others while typing it in the field

#### ➤ REGISTER NEW USER

Description of feature A new user will have to register in the system by providing essential details in order to view the products in the system. The admin must accept new user by unblocking him.

#### Functional Requirement

- System must be able to verify and validate information
- The system must encrypt the password of the customer to provide security.

#### ➤ PURCHASING AN ITEM

Description of feature The user can add the desired product into his cart by clicking add to cart option on the product. He can view his cart by clicking on the cart button. All products added by cart can be viewed in the cart. User can remove an item from the cart by clicking remove. After confirming the items in the cart, and the user can submit the cart by providing a delivery address. On successful submitting the cart will become empty.

#### Functional Requirement

- System must ensure that, only a registered customer can purchase items.
- Admin account should be secured so that only owner of the shop can access that account.

# SYSTEM DESIGN

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. Its emphasis on translating design. Specifications to performance specification. System design has two phases of development.

➤ Logical Design

➤ Physical Design

During logical design phase the analyst describes inputs (sources), outputs(destinations), databases (data sores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

## **3.1 INPUT AND OUTPUT DESIGN**

### **3.1.1 INPUT DESIGN:**

Input design is the link that ties the information system into the world of its users. The input design involves determining the inputs, validating the data, minimizing the data entry and provides a multi-user facility. Inaccurate inputs are the most common cause of errors in data processing. Errors entered by the data entry

### **3.1.2 OUTPUT DESIGN:**

Computer output is the most important and direct source of information to the user. Output design is a very important phase since the output needs to be in an efficient manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. The output module of this system is the selected notification. and operators can be controlled by input design. The user-originated inputs are converted to a computer-based format in the input design. Input data are collected and organized into groups of similar data. Once identified, the appropriate input media are selected for processing. All the input data are validated and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, it is transferred to the appropriate tables in the database. In this project the student details are to be entered at the time of registration. A page is designed for this purpose which is user friendly and easy to use. The design is done such that users get appropriate messages when exceptions occur

# DATABASE DESIGN

## 3.2 DATABASE

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system.

Two essential settings for a database are

- **Primary key** - the field that is unique for all the record occurrences
  - **Foreign key** - the field used to set relation between tables
- Normalization is a technique to avoid redundancy in the tables.

## 3.3 SYSTEM TOOLS

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

### 3.3.1 FRONT END:

React is a library which is developed by Facebook and is utilized to implement the frontend. React (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single page or mobile applications. However, React is only concerned with state management and rendering that state to the DOM, so creating React applications usually requires the use of additional libraries for routing, as well as certain client-side functionality.

### 3.3.2 BACK END:

The back end is implemented using MySQL which is used to design databases.

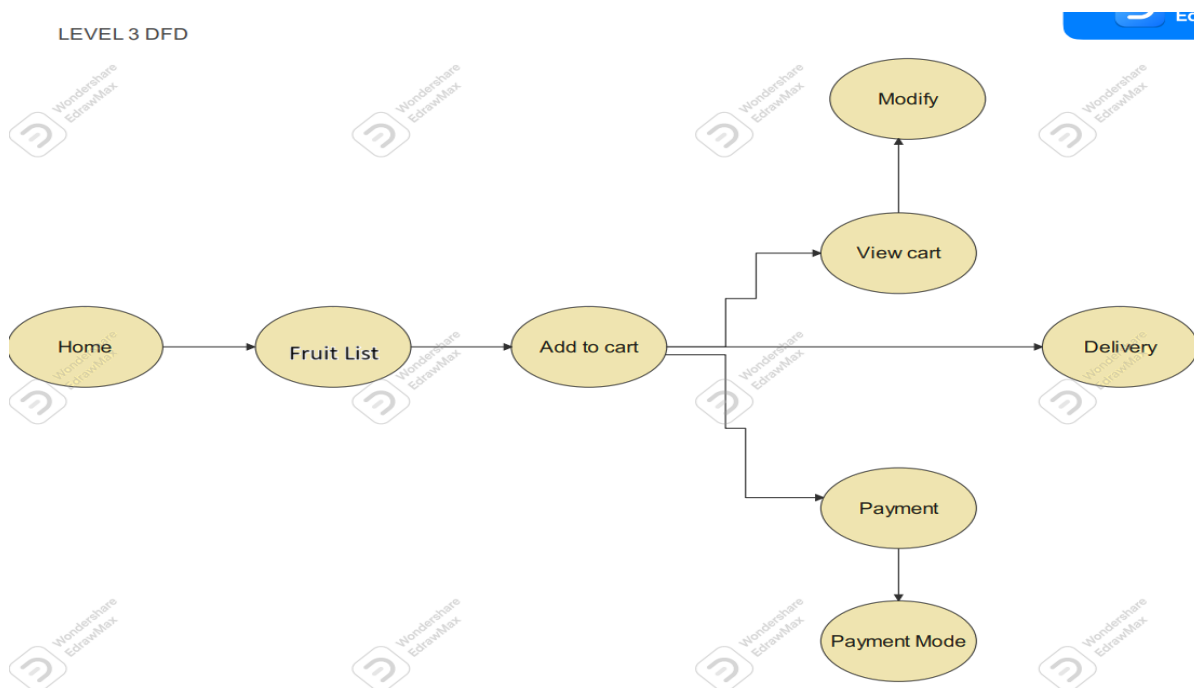
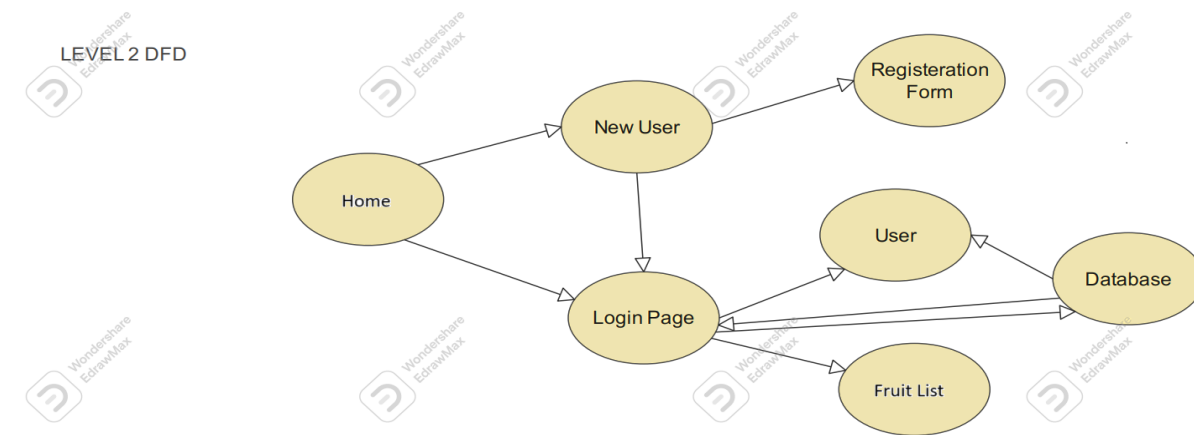
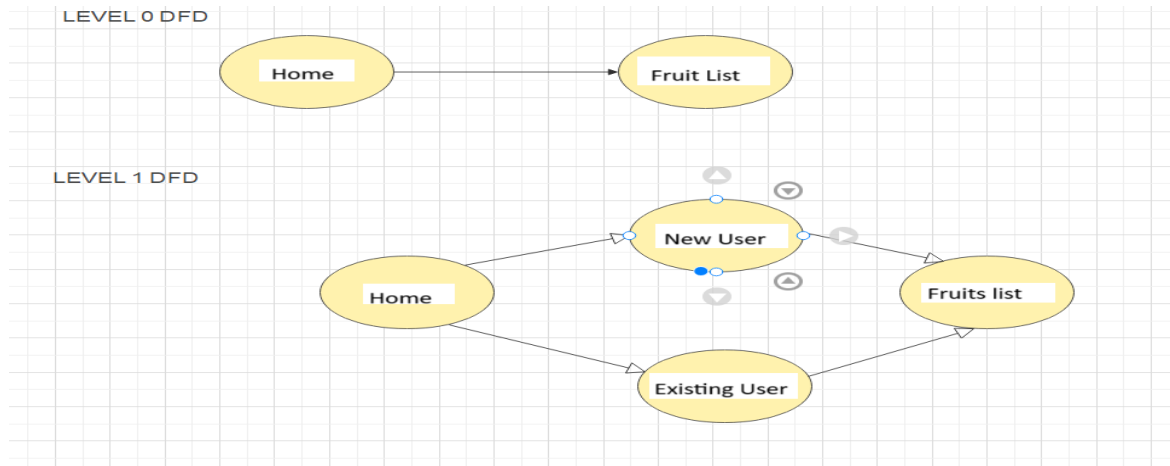
#### **MySQL:**

MySQL is the world's second most widely used open-source relational database management system (RDBMS). The SQL phrase stands for Structured Query Language. An application software called Navicert was used to design the tables in MySQL.

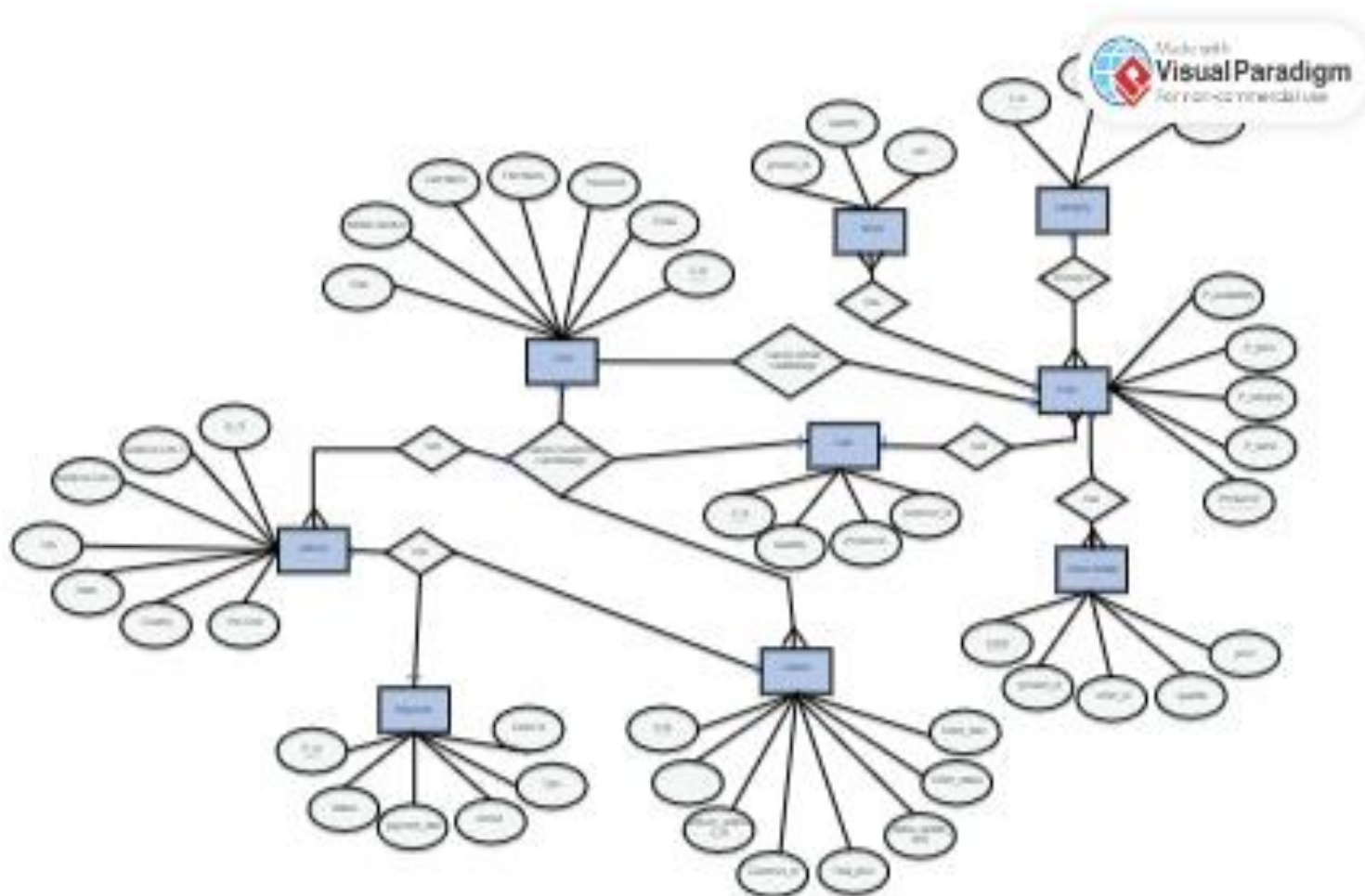
#### **Spring-Boot:**

This is used to connect MySQL and fetch data from database and store the data in database. The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. Although the framework does not impose any specific programming model, it has become popular in the Java community as an addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is Open-source Framework.

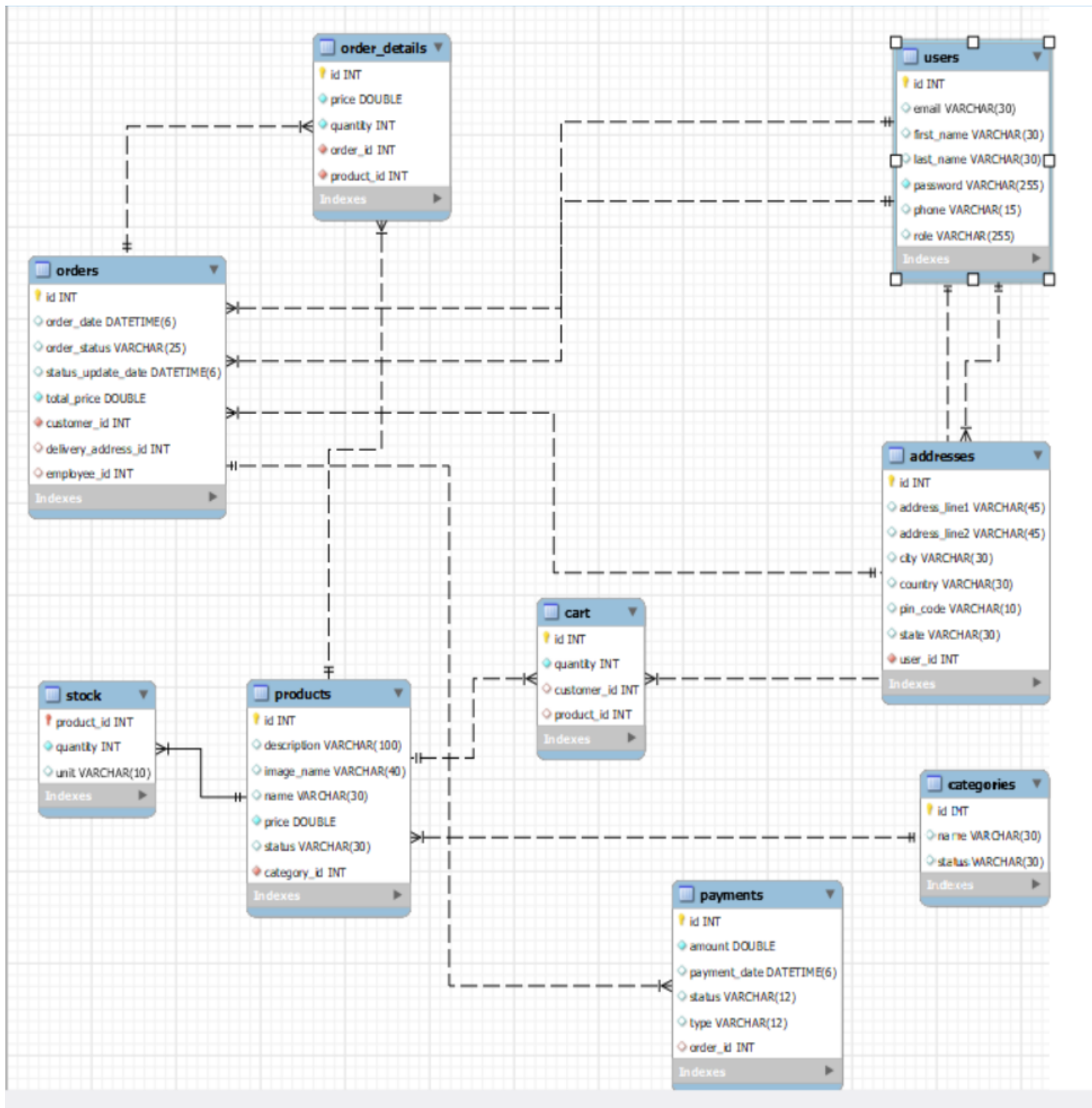
## DFDs:



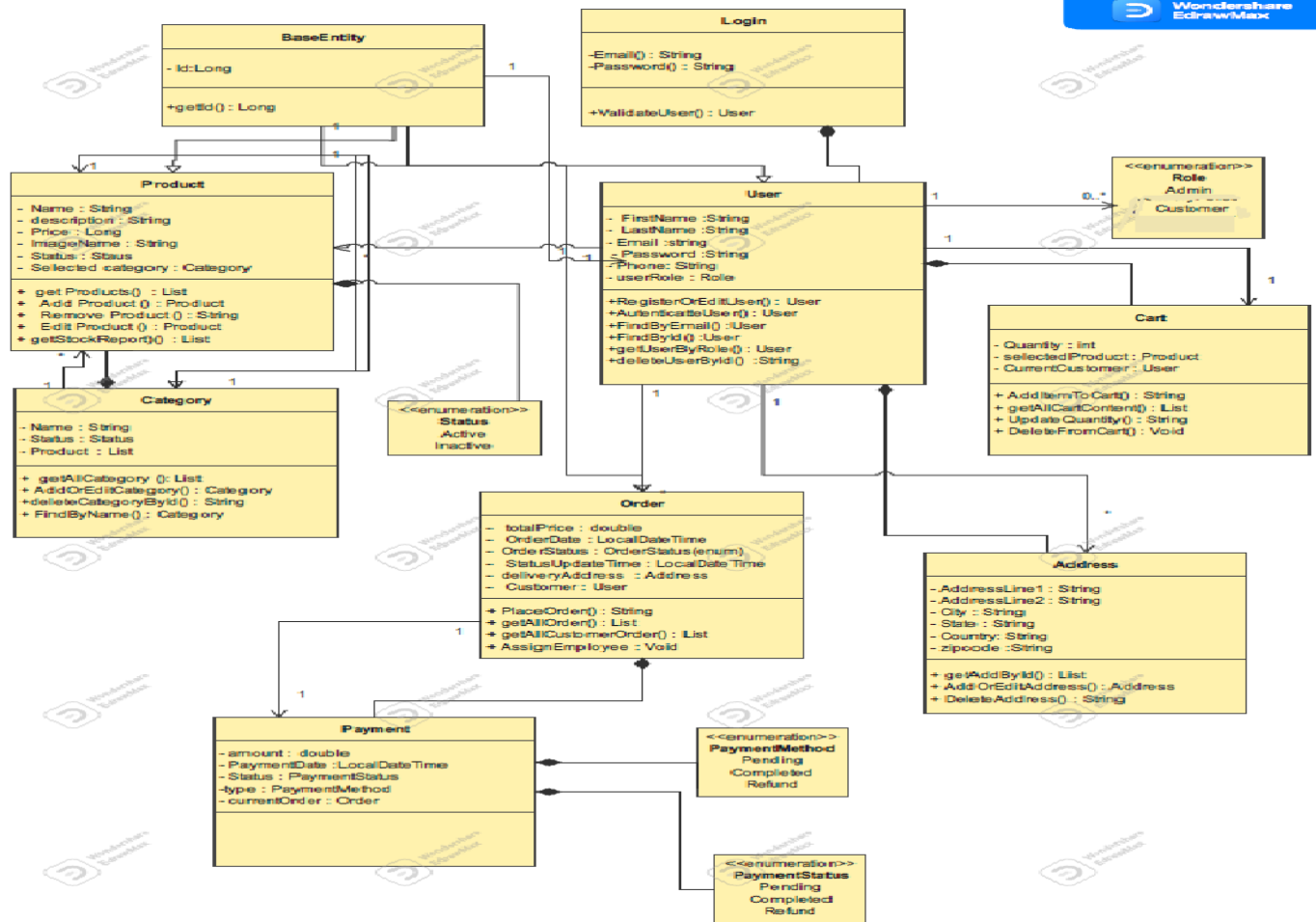
### E – R DIAGRAM







# CLASS DIAGRAM



# ACTIVITY DIAGRAM

Figure: Activity Diagram

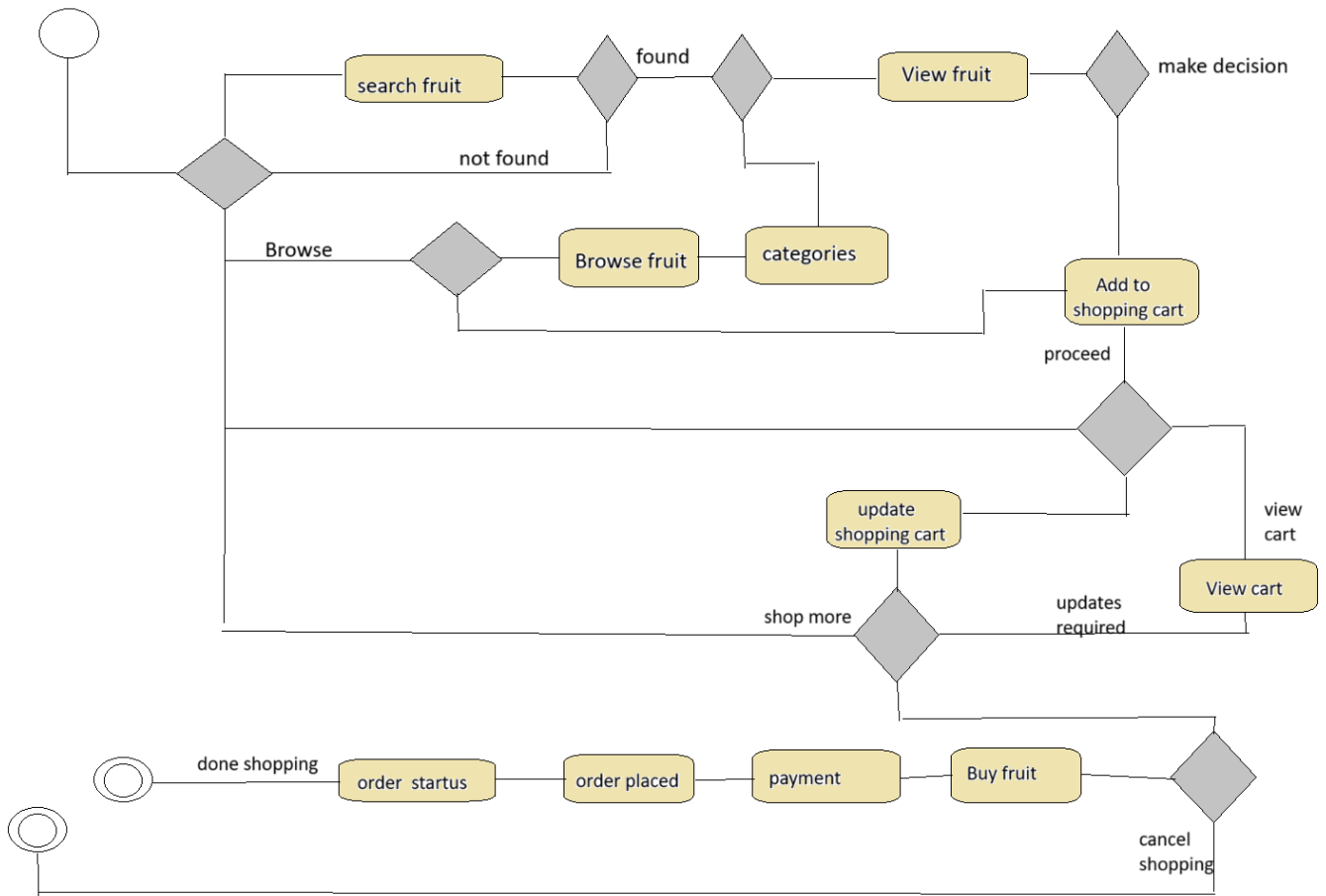
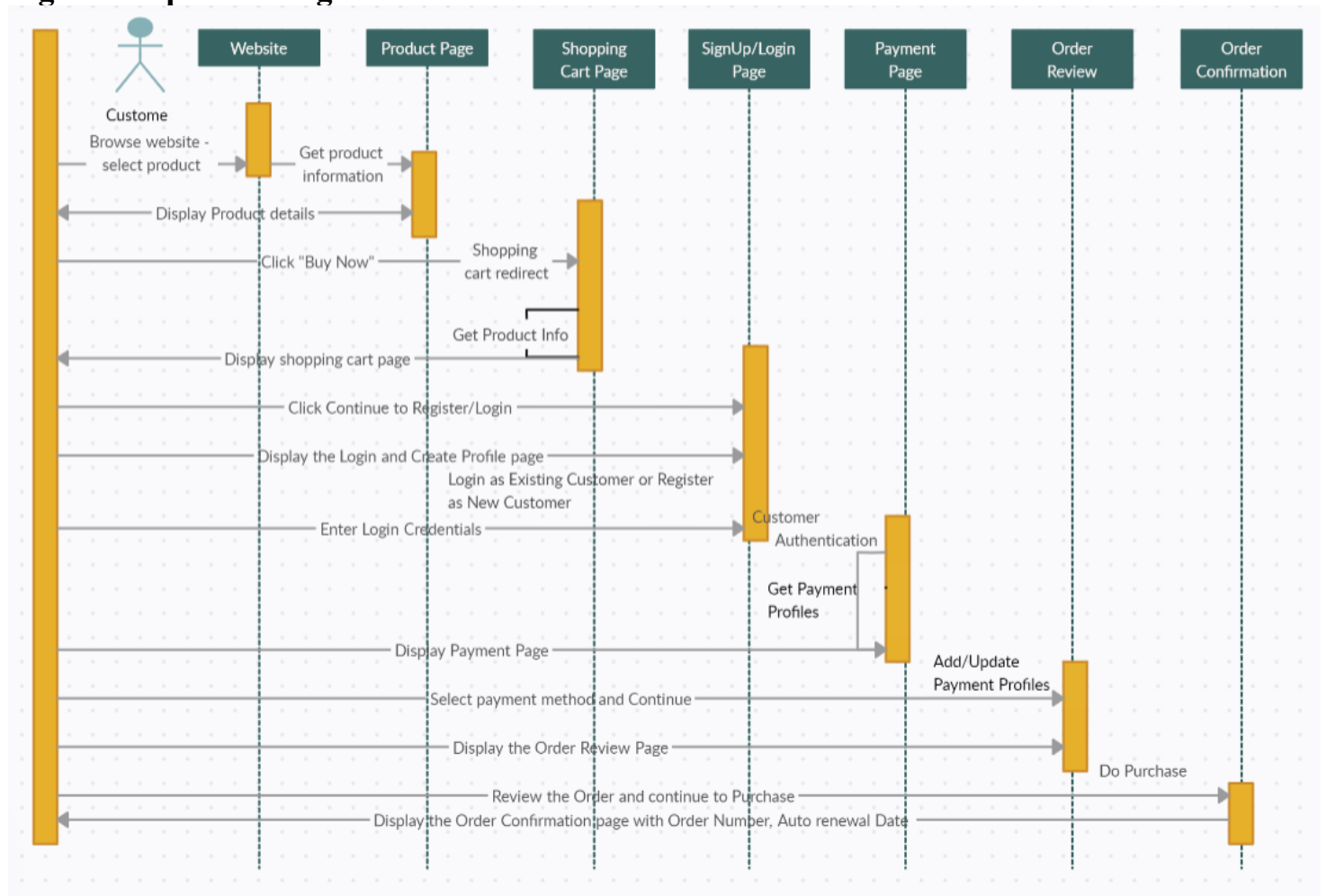


Figure: Sequence Diagram



# TABLE STRUCTURE

Database: **gogrocers**

## 1)List of Tables:

```
mysql> use falahaar;
Database changed
mysql> show tables;
+-----+
| Tables_in_falahaar |
+-----+
| addresses           |
| cart                |
| categories           |
| order_details        |
| orders              |
| payments            |
| products            |
| stock               |
| users               |
+-----+
9 rows in set (0.03 sec)
```

## 2)Category Table:

```
mysql> desc categories;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id    | int           | NO   | PRI | NULL    | auto_increment |
| name  | varchar(30)   | YES  |     | NULL    |                |
| status | varchar(30)   | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

### 3)Products Table:

```
mysql> desc products;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
description	varchar(100)	YES		NULL	
image_name	varchar(40)	YES		NULL	
name	varchar(30)	YES		NULL	
price	double	NO		NULL	
status	varchar(30)	YES		NULL	
category_id	int	NO	MUL	NULL	

```
7 rows in set (0.00 sec)
```

#### 4)Cart Table:

```
mysql> desc cart;
```

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

```
4 rows in set (0.00 sec)
```

## 5) Orders Table:

```
mysql> desc orders;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
order_date	datetime(6)	YES		NULL	
order_status	varchar(25)	YES		NULL	
status_update_date	datetime(6)	YES		NULL	
total_price	double	NO		NULL	
customer_id	int	NO	MUL	NULL	
delivery_address_id	int	YES	MUL	NULL	
employee_id	int	YES	MUL	NULL	

```
8 rows in set (0.00 sec)
```

## 6) Order details Table:

```
mysql> desc order_details;
```

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

```
5 rows in set (0.01 sec)
```



## 7) Payments table:

```
mysql> desc payments;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
amount	double	NO		NULL	
payment_date	datetime(6)	YES		NULL	
status	varchar(12)	YES		NULL	
type	varchar(12)	YES		NULL	
order_id	int	YES	MUL	NULL	

```
6 rows in set (0.00 sec)
```

## 8) Stock table:

```
mysql> desc stock;
```

Field	Type	Null	Key	Default	Extra
product_id	int	NO	PRI	NULL	
quantity	int	NO		NULL	
unit	varchar(10)	YES		NULL	

```
3 rows in set (0.00 sec)
```

## 9) Users table:

```
mysql> desc users;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(30)	YES		NULL	
last_name	varchar(30)	YES		NULL	
password	varchar(255)	NO		NULL	
phone	varchar(15)	YES		NULL	
role	varchar(255)	YES		NULL	

7 rows in set (0.00 sec)

## 10)Addresses table:

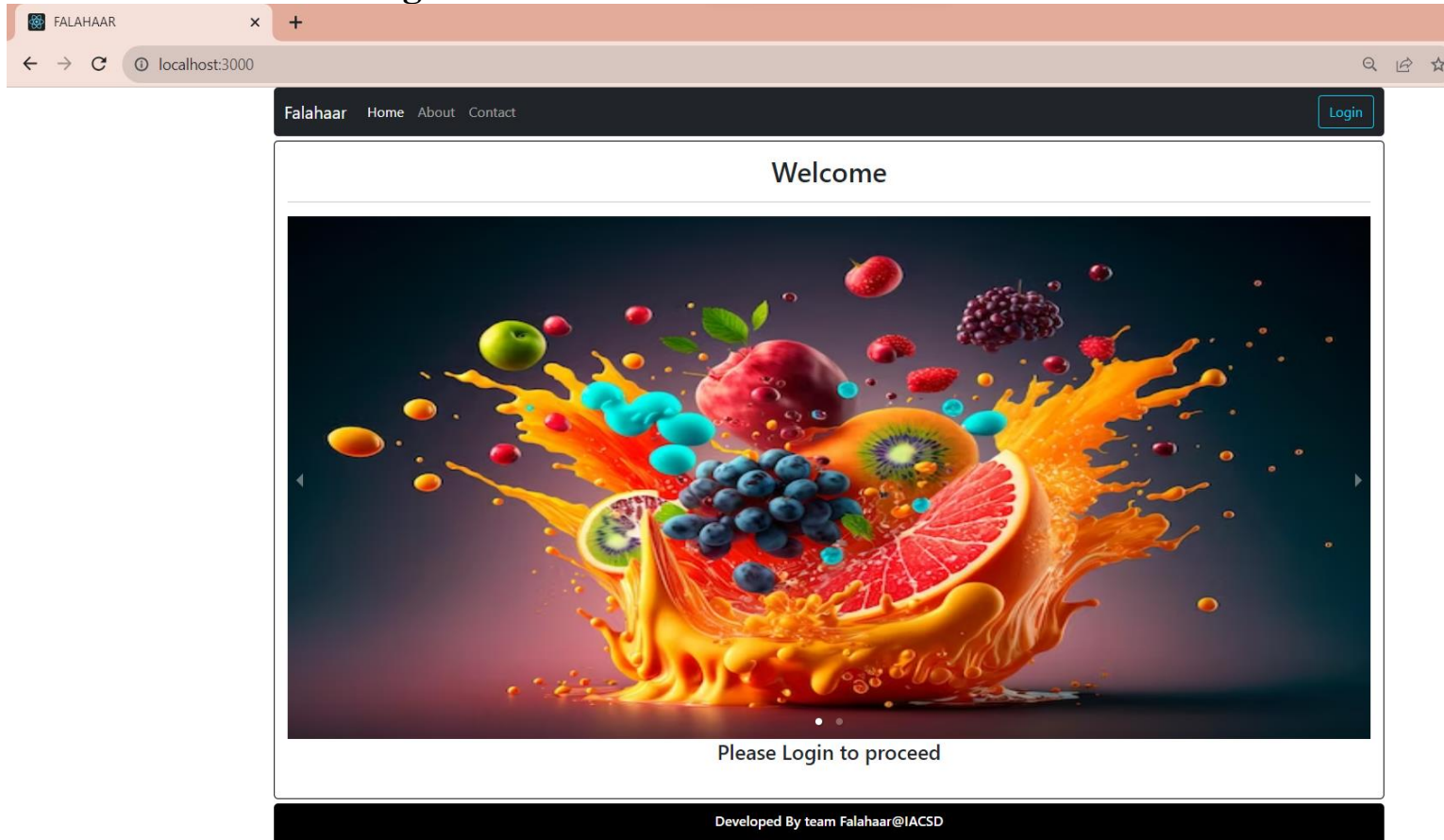
```
mysql> desc users;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(30)	YES		NULL	
last_name	varchar(30)	YES		NULL	
password	varchar(255)	NO		NULL	
phone	varchar(15)	YES		NULL	
role	varchar(255)	YES		NULL	

7 rows in set (0.00 sec)

# SCREENSHOTS :

## FALAHHAAR Home Page



# ABOUT US PAGE

FALAHHAAR

x

+

←

→

↻

localhost:3000/about

🔍

Falahaar

Home

About

Contact

Login

About Us

Our Vision

To be an independent, innovative, honest and sustainable company in which customers are able to choose from a wide range of Fresh fruits to cater to their healthy lifestyle needs at reasonable prices.

Our Mission

To satisfy our customers with a unique experience of buying fresh fruits offering quality products, variety of categories, fair price, best service & on time delivery

Serving At

• Akurdi

Near Akurdi railway station

10:00 to 19:00 Hrs

• Hinjewadi

Near TCS

09:00 to 23:00 Hrs

• FC road

Near FC college

09:00 to 22:00 Hrs

Values

• To listen to the customers demands, to provide real fruits' life enriching vitamins information.

• To be responsible through commitment, and respect.

Developed By team Falahaar@IACSD

# CONTACT US PAGE

FALAAHAR

×

+

←

→

↺

localhost:3000/contact

🔍

🔗

Falahaar

Home

About

Contact

Login

Contact Us

Reach out to us here

Pratiksha  
Deshmukh

Store Manager

prats@gmail.com

IACSD

Akurdi - 416012

Maharashtra | India

Contact

123445667

0231-22651311

Shivane Mande

Store Manager

shivane@gmail.com

IACSD

Akurdi-411035

Maharashtra | India

Contact

568934569

0233-2651311

Let us get back to you

Name

Your name

Email

you@gmail.com

Contact

Your mobile

What would you like to know?

you opinion matters to us

Send

reset

Developed By team Falahaar@IACSD

# SIGN UP PAGE

FALAHHAAR

×

+

←

→

↺

localhost:3000/signup

🔍

🔖

☆

Falahaar

Home

About

Contact

Login

SignUp

First Name

Last Name

First Name

Last Name

Email address

name@example.com

Password

\*\*\*\*\*

Register

Already a User? [SignIn](#)

Developed By team Falahaar@IACSD

# LOGIN PAGE

FALAHAAAR

x

+

localhost:3000/signin

🔍 📄 ☆

Falahaar

Home

About

Contact

Login

Login

Email Address

name@example.com

Password

\*\*\*\*\*

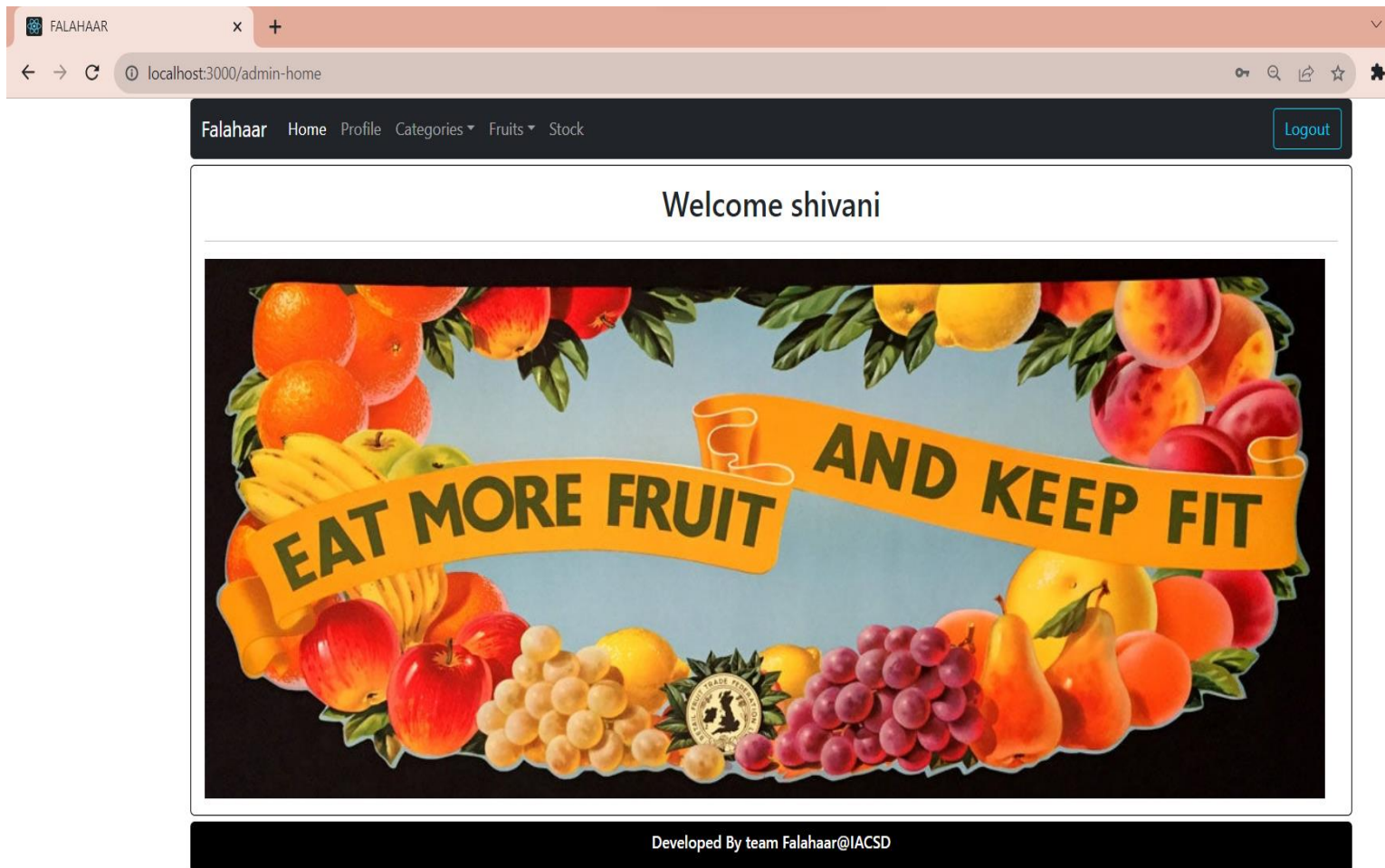
Login

New around here? [Sign Up](#)

Developed By team Falahaar@IACSD



# Admin Home Page



# View all categories by ADMIN

Falahaar Home Profile Categories ▾ Fruits ▾ Stock Logout

### Categories

1	<input type="text" value="vit-A"/>	ACTIVE ▾	<button>Save</button>	<button>Remove</button>
2	<input type="text" value="vit-B"/>	ACTIVE ▾	<button>Save</button>	<button>Remove</button>
3	<input type="text" value="vit-D"/>	ACTIVE ▾	<button>Save</button>	<button>Remove</button>
4	<input type="text" value="Calcium"/>	ACTIVE ▾	<button>Save</button>	<button>Remove</button>
5	<input type="text" value="vit-C"/>	ACTIVE ▾	<button>Save</button>	<button>Remove</button>

Developed By team Falahaar@IACSD

## Add new category by ADMIN

FALAHAAAR x +

localhost:3000/add-category

Falahaar Home Profile Categories Fruits Stock Logout

### Add New Category

Category Name

Status

ACTIVE

Add Category Cancel

Developed By team Falahaar@IACSD


## Add new fruit by ADMIN

FALAHAAAR x +

localhost:3000/add-product

Falahaar Home Profile Categories Fruits Stock Logout

### Add Product



Add or Change Image

Choose file No file chosen

Product Name

Product Description

Category: Select Category New Category Price: Rs.125

Quantity: 5

Add Product Cancel

Developed By team Falahaar@IACSD

# Customer Login

FALAHHAAR

HomeProfileMy OrdersProducts

0

Logout

Welcome Pratiksha


vit-A>

vit-B>

vit-D>

Calcium>

vit-C>



Developed By team Falahaar@IACSD

# Customer details:

FALAHHAAR

localhost:3000/edit-profile

Logout

Falahaar

Home

Profile

My Orders

Products

Edit Profile

First Name

Pratiksha

Last Name

deshmukh

Email address

pratiksha5253@gmail.com

Password

.....

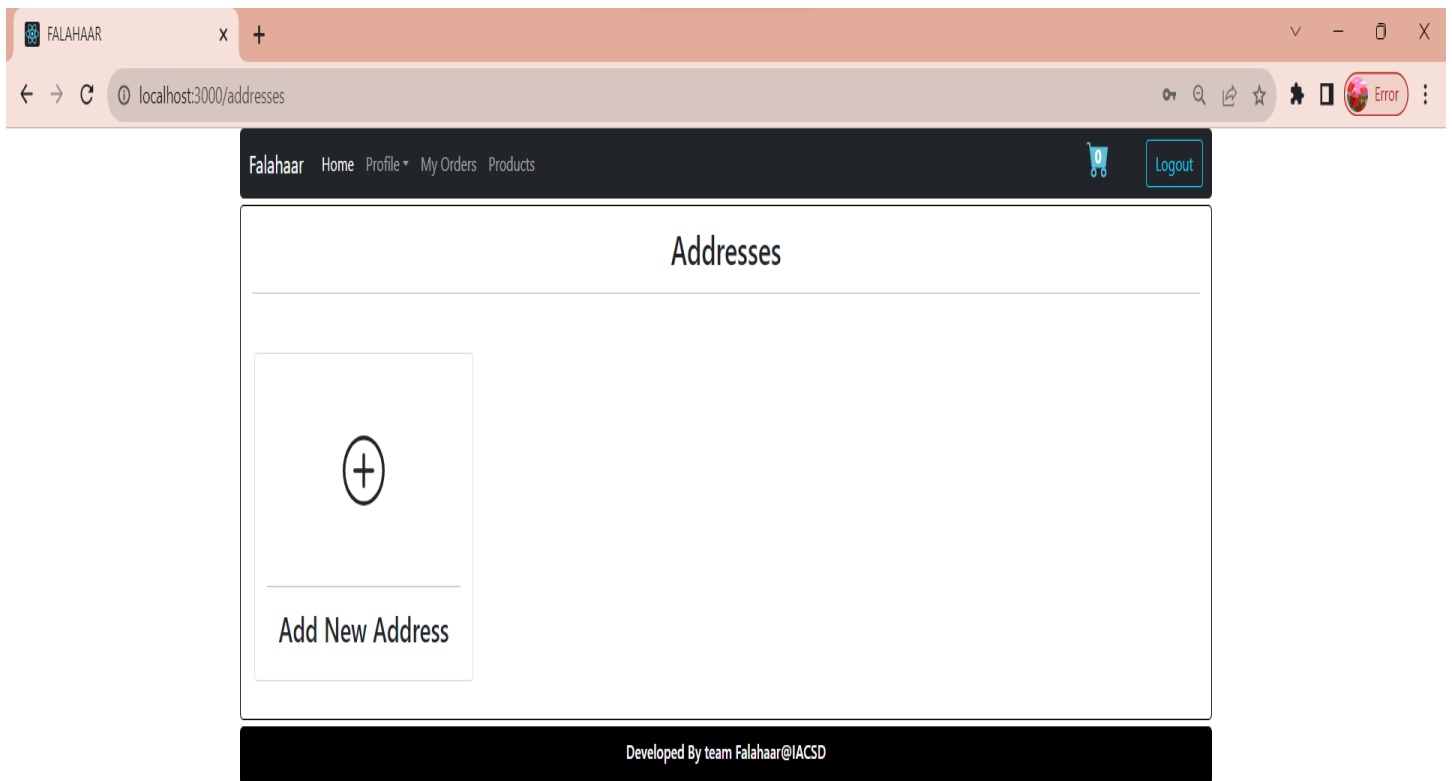
Phone

1234455667

Save

Developed By team Falahaar@IACSD

## Add address:



## CONCLUSION

The project entitled “**Falahaar**” – **Online Fresh fruit Shopping** App was completed successfully.

The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming.

The purpose of this project was to develop a web application for purchasing items from a shop. This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using React.js, usage of responsive templates, designing of android applications, and management of database using MySQL. The entire system is secured. Also, the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project. This project has given us great satisfaction in having designed an application which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications.

There is a scope for further development in our project to a great extent. A number of features can be added to this system in future like providing moderator more control over products so that each moderator can maintain their own products. Another feature we wished to implement was providing classes for customers so that different offers can be given to each class. System may keep track of history of purchases of each customer and provide suggestions based on their history. These features could have implemented unless the time did not limit us .

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