

**MODERN COLLEGE OF ARTS, SCIENCE AND  
COMMERCE, GANESHKHIND, PUNE-16**



**ACADEMIC YEAR 2021-2022**

**A  
PROJECT REPORT  
ON  
“Online Grocery Store”**

**SUBMITTED TO  
SAVITRIBAI PHULE PUNE UNIVERSITY  
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**Modern College Of Arts, Science & Commerce, Ganeshkhind,**  
**Pune-16**

**Department of Computer Science**  
**T.Y. B.Sc. (Computer Science)**



**CERTIFICATE**

This is to certify that Project work titled “**Online Grocery Store**” has been successfully completed by **Shubhangi Gund , Vishal Karpe, Rohan Pandit, Atharva Gujar** as a fulfillment of T.Y.B.Sc. (Computer Science) Examination for the academic year 2021 -2022 for Savitribai Phule Pune University, Pune.

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**Internal Examiner :**

**External Examiner :**

## **ACKNOWLEDGEMENT**

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I would like to thanks to our Head of the Computer Science Department **Dr. S. S. Bhatambrekar** for their support and encouragement. I would like to thanks to my project guide **Prof.Amol Patil** for his valuable suggestions during the project work.

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# Introduction

The Online grocery shopping has not been accepted as fully as other types of online purchasing such as books, DVDs and CDs etc. Despite all the potential benefits to a consumer, 50% of users never finish their first grocery shop and only 15% of online grocery shoppers return to shop online again. Clearly, there is a problem. While many factors may play a part in this poor performance, initial research suggests that poor usability of online grocery shopping systems is a major factor and therefore more research needs to be conducted into user design of these types of systems and the type of errors that users could make whilst interacting with these systems.

And now Due to pandemic situation, online marketing has grown rapidly And Grocery is our daily need. So with the help of this site we can order grocery at our door step. This website is also useful for the people who are unable to go to market to purchase grocery such as older people or those who work. Using "Online Grocery Store" it will be very easy and time saving to purchase grocery.

# **Existing System**

The present scenario for shopping is to visit the shops and market manually and then from the available product list one needs to choose the item he or she wants and then pay for the same item mainly in cash mode is done, as not every society is well educated and aware to use net banking or card modes or wallets etc.

This system is not much user-friendly as one needs to go to the market physically and then select items only from the available list. So mostly it is difficult to get the product as per our desire. Description About the products is less available and are mostly verbal only. For this type of shopping, one needs to have an ample amount of free time.

Also, not really good markets exist everywhere, so many times good markets become out of reach for certain people. In the proposed system customers need not go to the shops for purchasing the products. He/she can order the product he/she wishes to buy through the use of this system. The shop owner can be the admin of the system.

The shop owner can appoint officials particularly to handle this, who will help the owner in managing the customers and product orders. The system also endorses a home delivery system for delivering the purchased products.

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# **Problem Definition**

The purpose of Online Grocery Store is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for longer period with easy accessing and manipulating of the same. The required software and hardware are easily available and easy to work with.

Online Grocery Store as described above can lead to error free, secure, reliable, fast management system. It can assist the user to concentrate on their activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach information.

The aim is to automate its existing system manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data /information can be stored for a longer period with easy accessing and manipulating of the same. Basically the project describes how to manage for good performance and better services for the clients.

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# Proposed System

The main objective of the Project on Online Grocery Ordering System is to manage the details of Grocery, Customer, Order, Stock, Product. It manages all the information about Grocery, Address, Product, Grocery. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Grocery, Customer, Address, Order. It tracks all the details about the Order, Stock, Product



# Feasibility Study

## **Technical Feasibility :**

Technical Environment is required for developing the application are :

For Development Environment :

1.Operating System : Ubuntu

2.RAM : 4GB

3.Processor : Intel Corei3

4.Database Used : PostgreSQL

The aim of the project is to help user to easy and fast apply for leave.

Keeping this in mind user can use the application with internet connection and any web browser.

## **Economical Feasibility :**

Programming languages used in the projects are HTML, CSS, Bootstrap, Javascript, jquery, PHP and the database is PostgreSQL. All of these are open source and free of cost, hence it helped to make project more economically feasible.

## **Operational Feasibility :**

User interface is very user friendly. Anyone can understand the working of application easily. Provided total leave remaining count on the beside to the apply for leave option.

Likewise for authority leave request information is provided. Which makes it easy to use and Operational Feasible. The application reduces the staff to do various jobs that single software can do.

## **Requirement Analysis**

- Provides the searching facilities based on various factors. Such as Grocery, Order, Stock, Product.
- Online Grocery Ordering System also manage the Address details online for Stock.
- Product details, Grocery.
- It tracks all the information of Customer, Address, Stock etc.
- Manage the information of Customer.
- Shows the information and description of the Grocery, Order.
- To increase efficiency of managing the Grocery, Customer.
- It deals with monitoring the information and transactions of Stock.
- Manage the information of Grocery.
- Editing, adding and updating of Records is improved which results in proper.
- resource management of Grocery data.
- Manage the information of Stock.

# Data Dictionary

**Table Name : Admin**

Column	Type
id	Integer (Primary key)
username	Varchar
Password	Varchar
creationDate	timestamptz
updatetime	timestamptz

**Table Name: Category**

Column	Type
id serial	Integer (Primary key)
categoryName	Varchar
categoryDescription	Varchar
creationDate	Varchar
updatetime	Varchar

**Table name : User**

Column	Type
id	Integer (primary key)
name	Varchar
email	Varchar
password	Varchar
shippingAddress	Varchar
shippingState	Varchar
shippingCity	Varchar
shippingPincode	Integer
billingAddress	Varchar
billingState	Varchar
billingCity	Varchar
billingPincode	int
regDate	Varchar
updationDate	Varchar

**Table name : subcategory**

Column	Type
id	Int(primary key)
categoryid	int
subcategory	Varchar
creationDate	timestamp tz
updationDate	timestamp tz

**Table name : wishlist**

Column	Type
id	Int(primary key)
categoryid	int
subcategory	varchar
creationDate	timestampz
updationDate	timestampz

**Table name : products**

Column	Type
id	Integer(Primary key)
subCategory	int
productName	Varchar
productCompany	Varchar
productPrice	int
productPriceBeforeDiscount	int
productDescription	Varchar
productImage1	Varchar
productImage1	Varchar
productImage3	Varchar
shippingCharge	int
productAvailability	varchar
postingDate	timestamp
updationDate	varchar

**Table name : orders**

Column	Type
id	Int(primary key)
userId	int
productId	varchar
quantity	int
orderDate	timestampz
paymentMethod	varchar
orderStatus	varchar

**Table name : userlogs**

Column	Type
id	Int(primary key)
userEmail	varchar
loginTime	varchar
logout	varchar
status	int

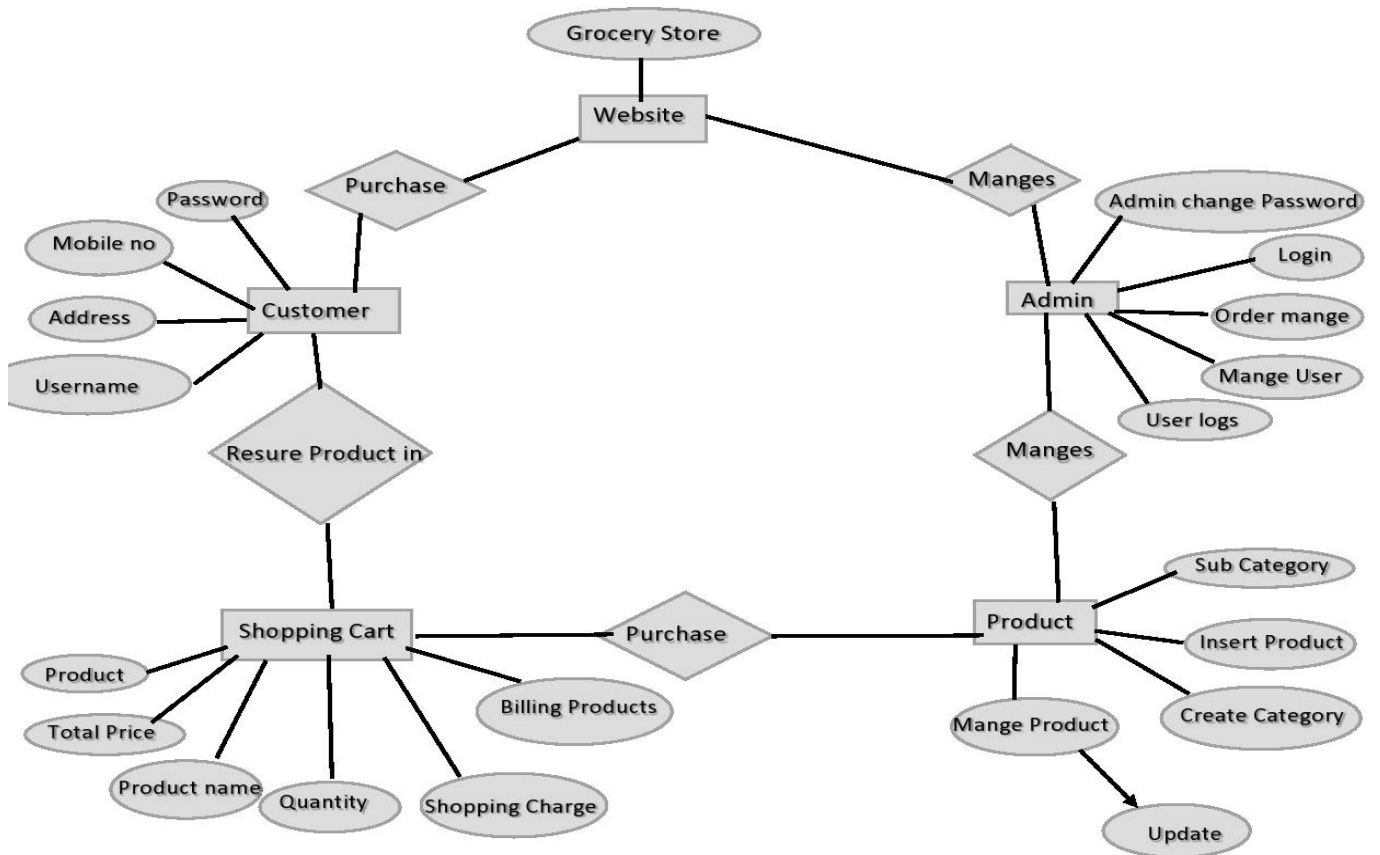
**Table name : productsreview**

Column	Type
id	Int(primary key)
productId	int
quality	int
price	int
value	int
name	varchar
summary	varchar
review	varchar
reviewDate	timestampz

**Table name : ordertrackhistory**

Column	Type
id	Int(primary key)
orderId	int
status	varchar
remark	varchar
postingDate	timestamp

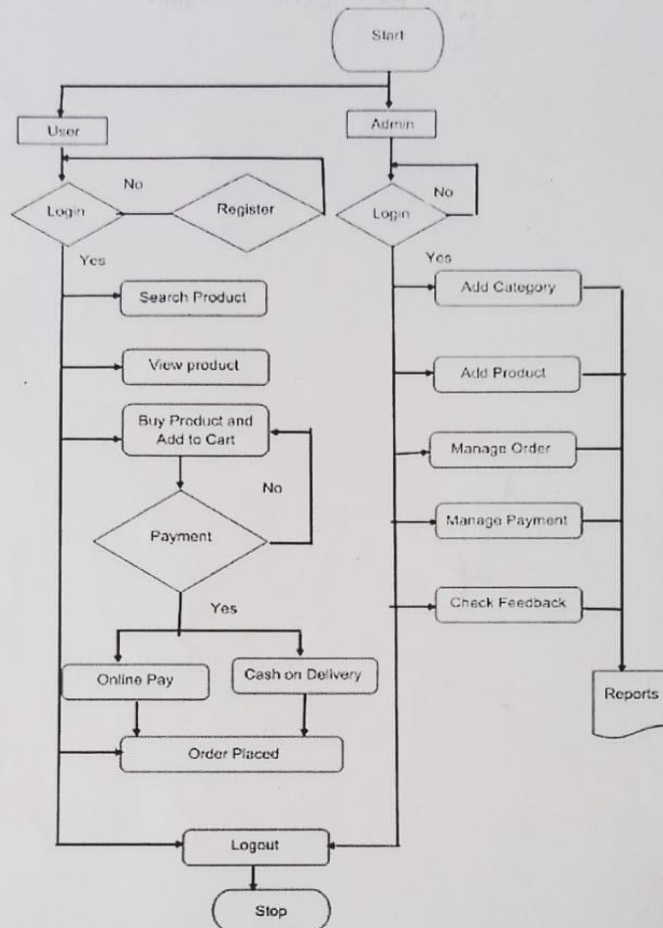
## ER Diagram :





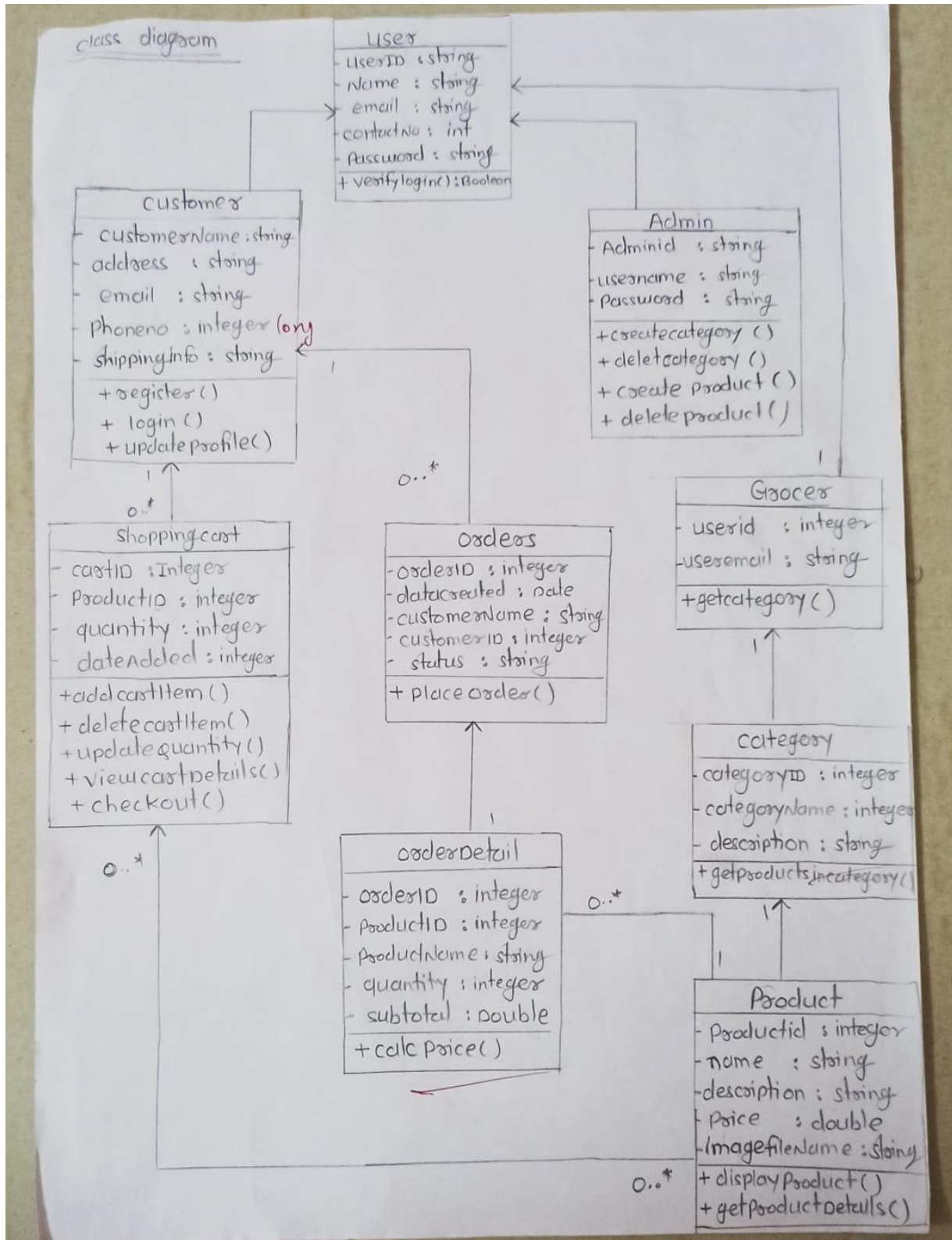
**DFD :**

## Dataflow Diagram

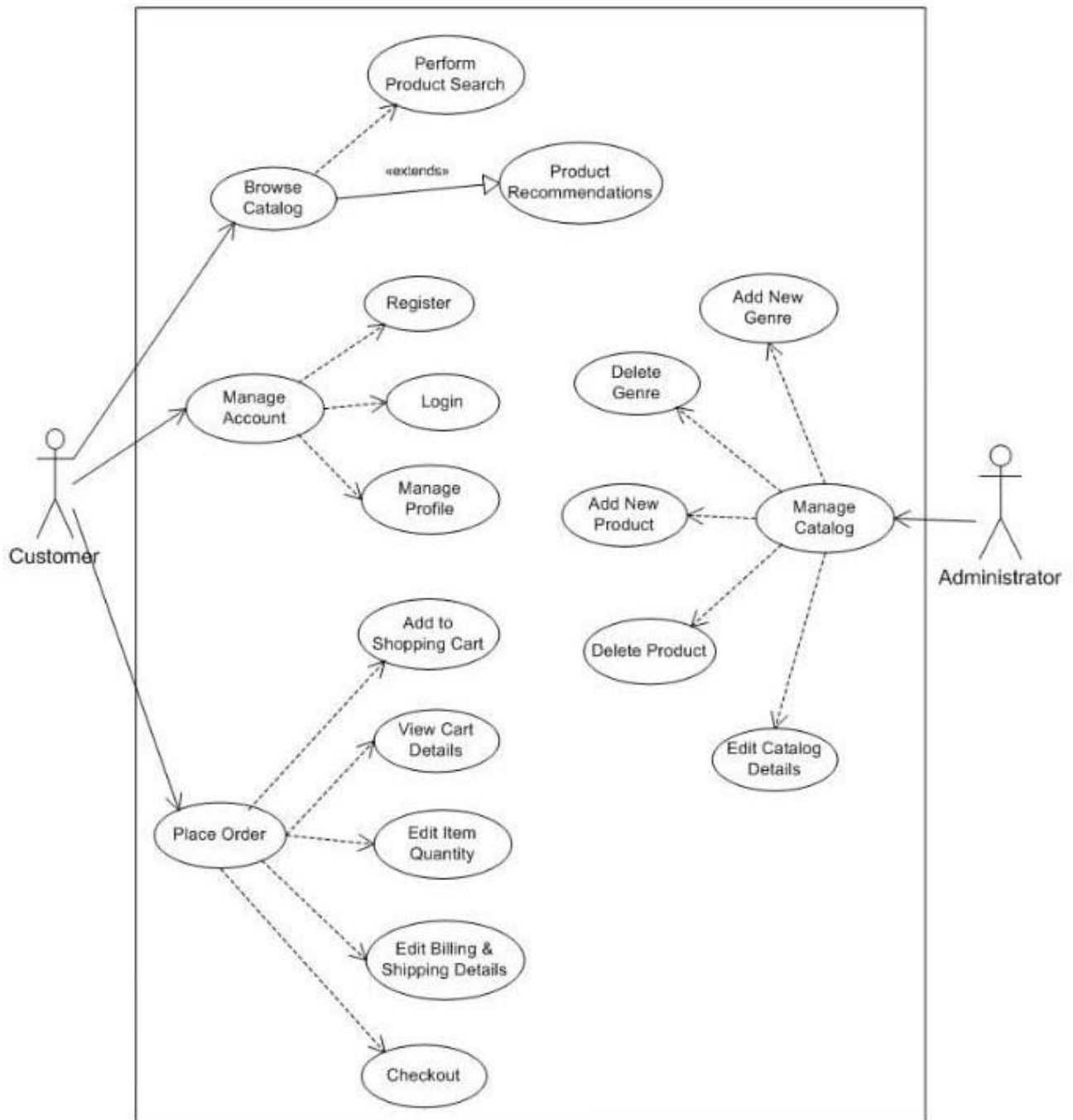


# UML Diagrams

## Class Diagram

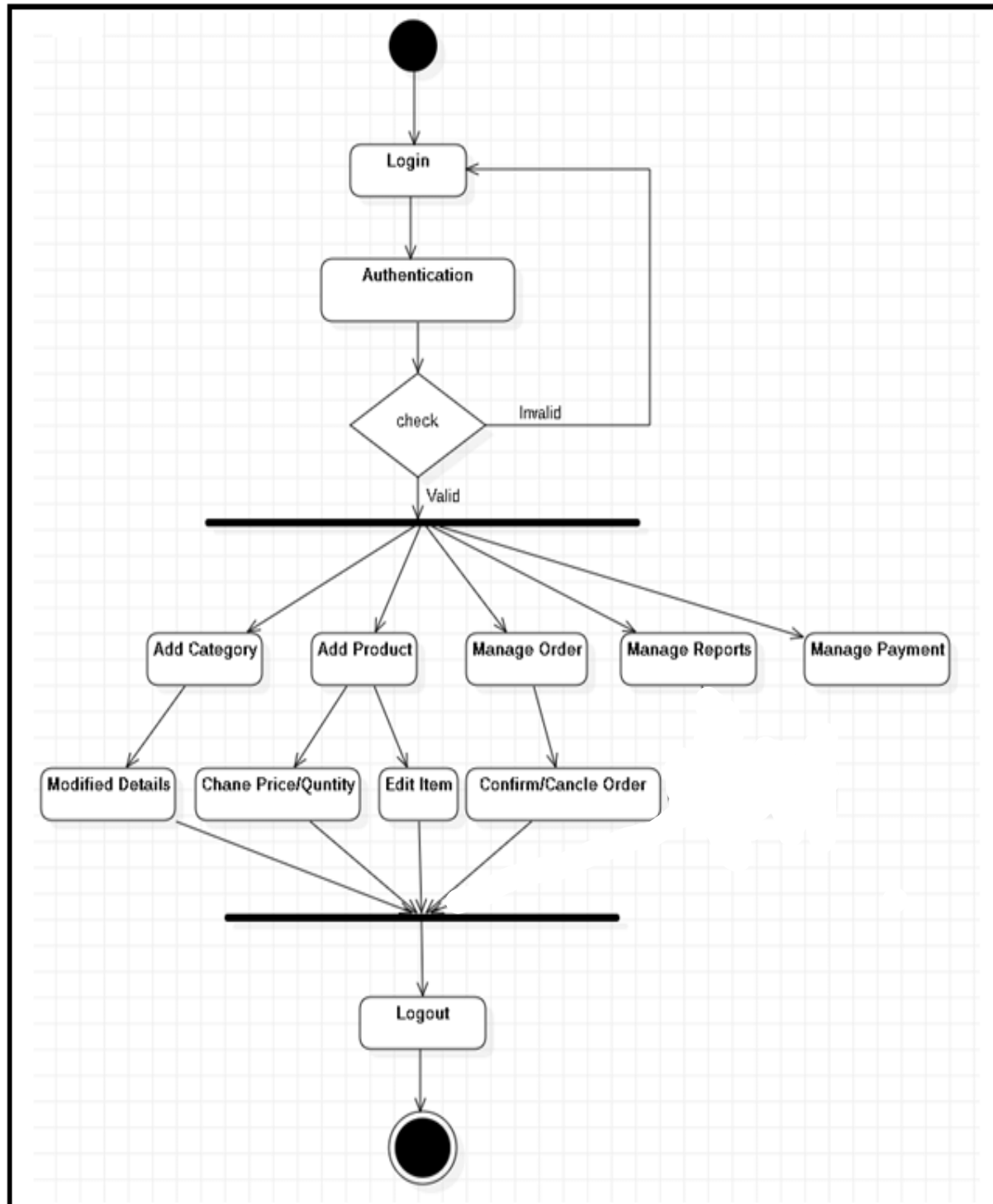


## Use Case Diagram



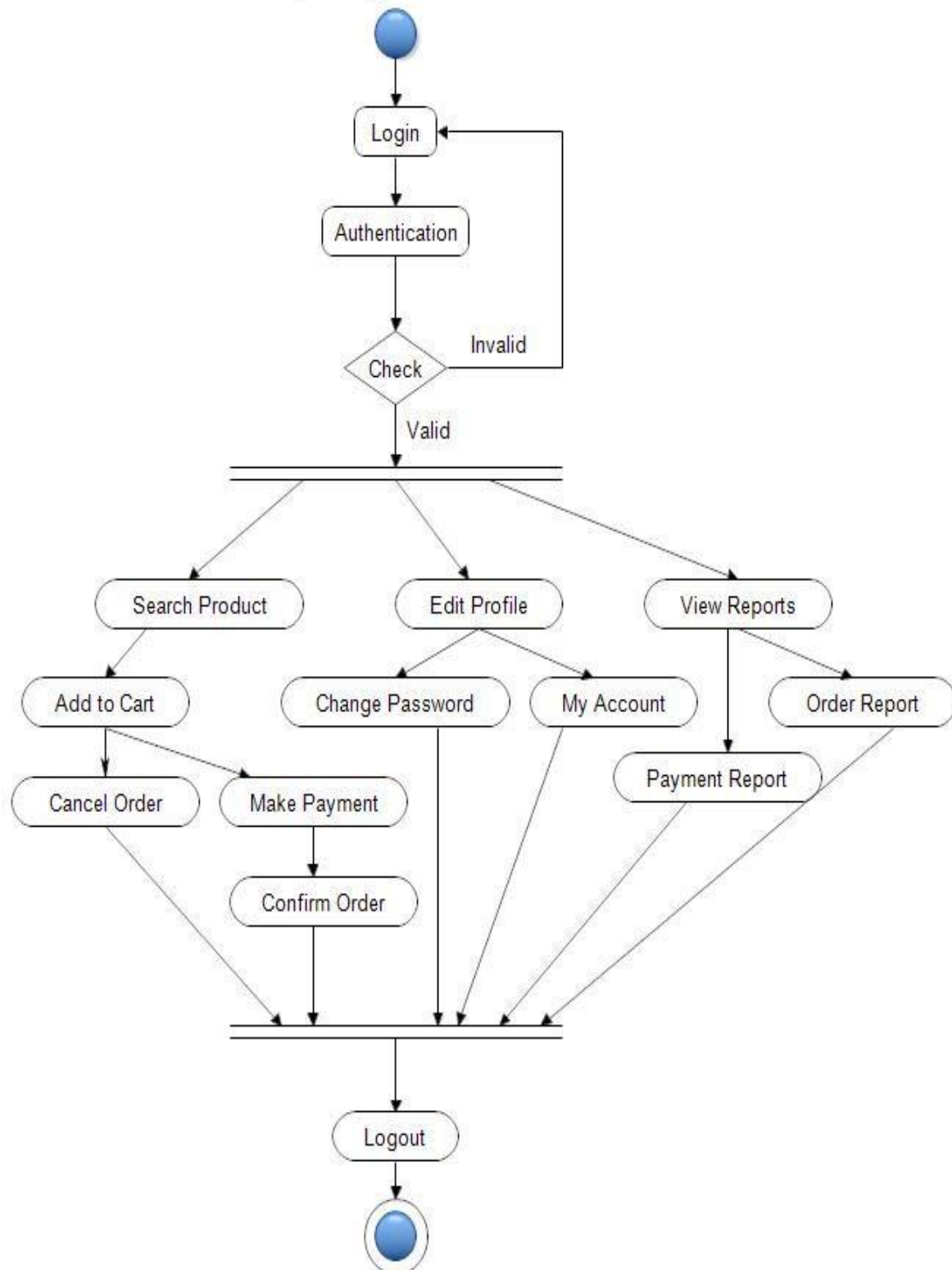
# Activity Diagram

admin

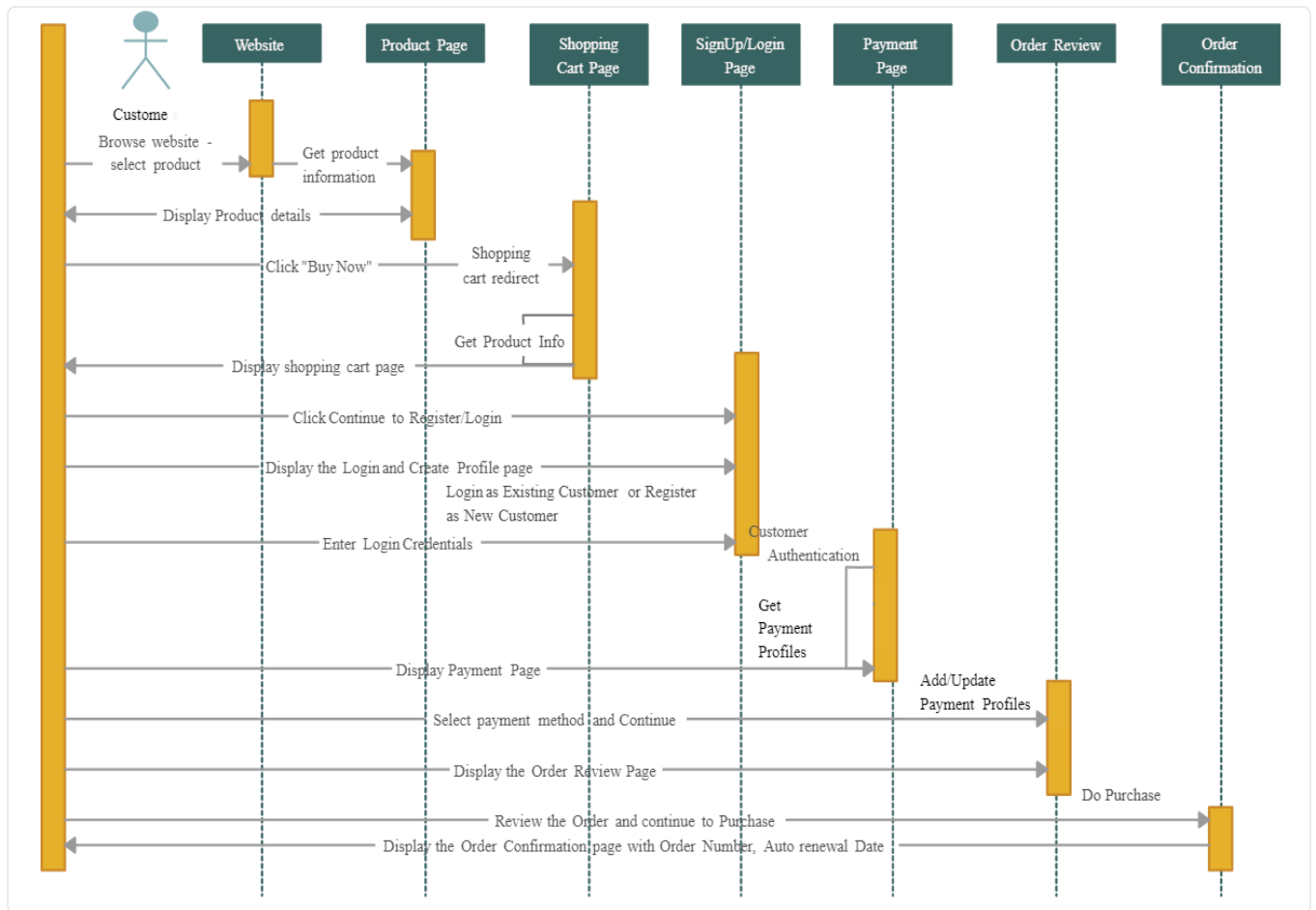


## Activity Diagram : User

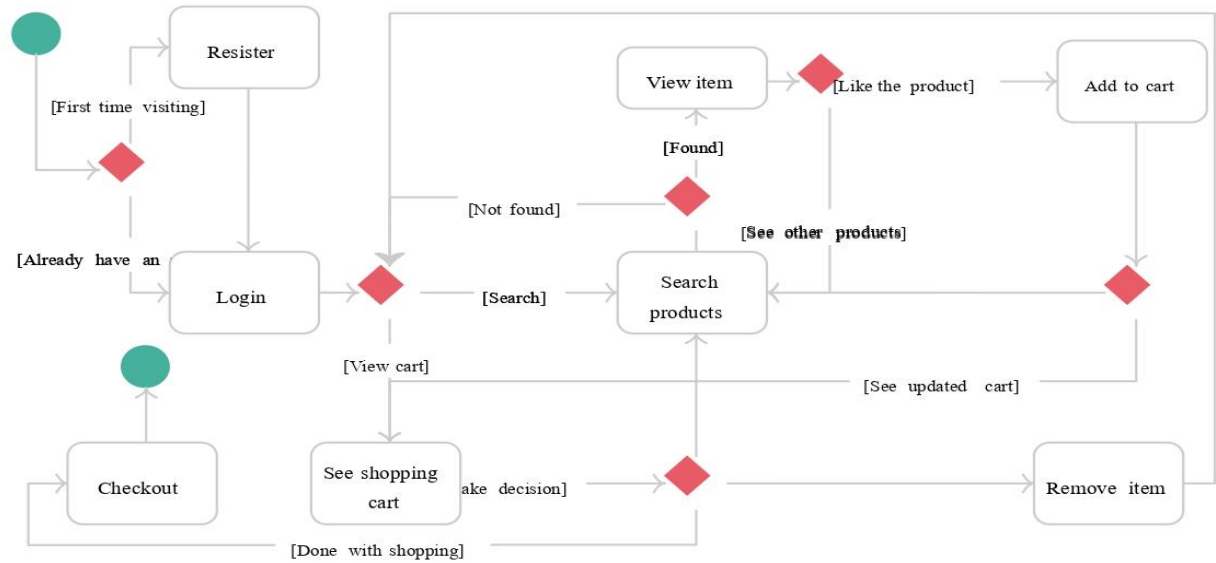
Activity Diagram for User Side



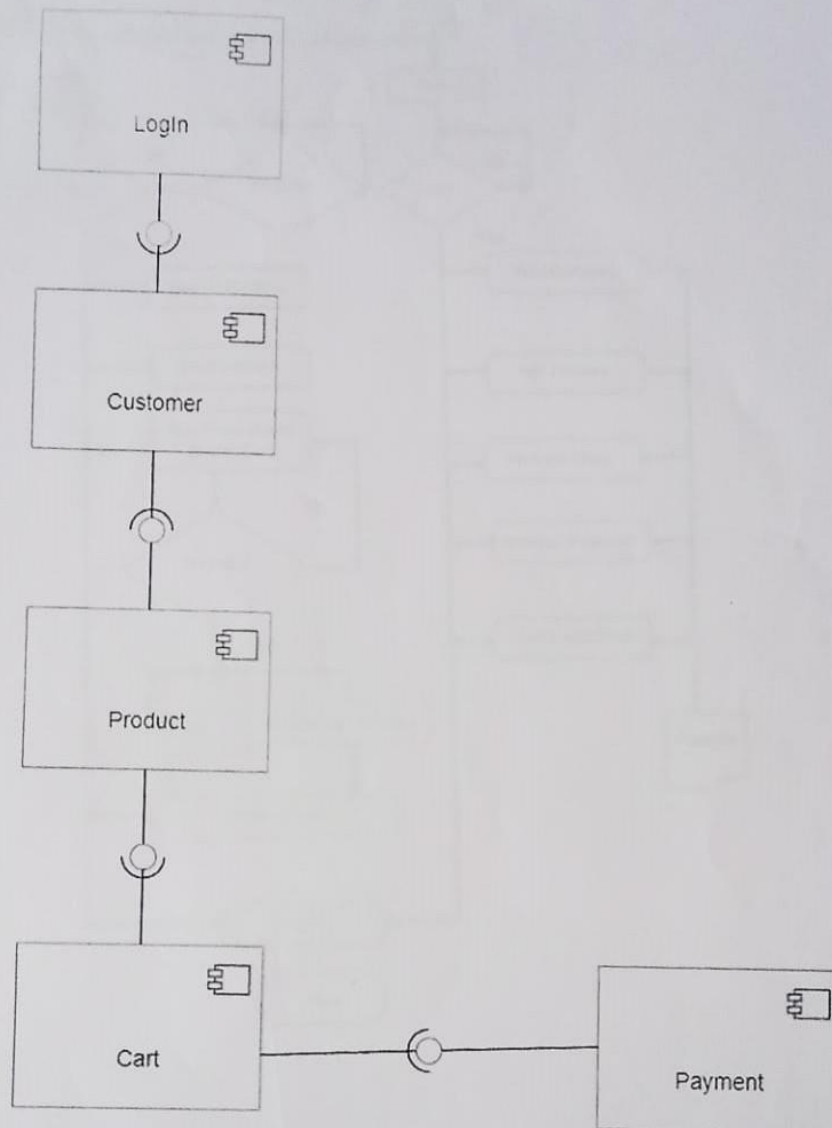
# Sequence diagram



# State Chart Diagram



## Deployment Diagram





# Input/Output Screen

## Loginpage

[My Account](#) | [Wishlist](#) | [My Cart](#) | [Login](#)

[Track Order](#) | [Admin Login](#)

ONLINE GROCERY STORE

Search here...

0  
cart - Rs. 00.00

HOME

VEGETABLES

FOODGRAINS

BAKERY

SNACKS

KITCHEN

BABY CARE

[Home](#) / [Authentication](#)

### SIGN IN

Hello, Welcome to your account.

Email Address \*

Password \*

[Forgot your Password?](#)

### CREATE A NEW ACCOUNT

Create your own Shopping account.

Full Name \*

Email Address \*

Contact No. \*

Password. \*

Confirm Password. \*

# Home page

My Account

Wishlist

My Cart

Login

Track Order

Admin Login

ONLINE GROCERY STORE

Search here...

0cart - Rs. 00.00

HOME

VEGETABLES

FOODGRAINS

BAKERY

SNACKS

KITCHEN

BABY CARE

CATEGORIES

VEGETABLES

FOODGRAINS

BAKERY

SNACKS

KITCHEN

BABY CARE

COVID ESSENTIALS

\$ MONEY BACK

7 DAY MONEY BACK GUARANTEE.

FREE SHIPPING

FREE SHIP-ON ORDER OVER RS. 600.00

SPECIAL SALE

ALL GROCERY-SALE UP TO 20% OFF

DEALS OF THE WEEK

ALL

VEGGIES

FRUITS

VALUE REFILL

# My account page

Welcome-rohanMy AccountWishlistMy CartLogout

Track OrderAdmin Login

ONLINE GROCERY STORE

Search here...

0cart - Rs. 00.00

HOMEVEGETABLESFOODGRAINSBAKERYSNACKSKITCHENBABY CARE

Home / Checkout

1MY PROFILE

Personal info

Name\*

rohan

Email Address \*

123@gmail.com

Contact No. \*

1234567890

UPDATE

2CHANGE PASSWORD

YOUR CHECKOUT PROGRESS

My Account

Shipping / Billing Address

Order History

Payment Pending Order

# Products page

SUB CATEGORIES

OCCASIONAL

DAILY

SHOP BY

Category

Vegetables

FOODGRAINS

Bakery


SNACKS

KITCHEN

BABY CARE

Covid Essentials

FOODGRAINS




SLV Bullet Original Sortex Kolan Rice 10 kg

★★★★☆

Rs. 789 ~~Rs. 942~~

Add to cart




Fortune Rozana Basmati Rice 1kg

★★★★☆

Rs. 66 ~~Rs. 76~~

Add to cart




Daawat Rozana Mogra Basmati Rice 5kg

★★★★☆


Rs. 322 ~~Rs. 358~~

Add to cart



Daawat Biryani Basmati Rice 5kg

★★★★☆



Daawat Biryani Basmati Rice 1kg

★★★★☆

# Order page

Welcome-rohan

My Account

Wishlist

My Cart

Logout

Track Order

Admin Login

ONLINE GROCERY STORE

Search here...

Q

cart - Rs. 00.00

HOME

VEGETABLES

FOODGRAINS

BAKERY


SNACKS

KITCHEN

BABY CARE

Home

Shopping Cart

#	Image	Product Name	Quantity	Price Per unit	Shipping Charge	Grandtotal	Payment Method	Order Date	Action
1		FORTUNE ROZANA BASMATI RICE 1KG	1	66	0	66	COD	2022-05-29 22:45:28	<a href="#">Track</a>

Thank You

For Shopping

with us.

## Track order page

Order Tracking Details !


order Id:


13


Order Not Process Yet


# Admin interface


YourGrocerystore | Admin Interface


Admin 


 Order Management


 Manage users


 Create Category

 Sub Category

 Insert Product

 Manage Products

 User Login Log

 Logout

Admin Change Password

Current Password

Enter your current Password

New Password

Enter your new current Password

Current Password

Enter your new Password again

Submit

### Insert product

YourGrocerystore | Admin InterfaceAdmin

Order Management

Manage users

Create Category

Sub Category

Insert Product

Manage Products

User Login Log

Logout

Insert Product

CategorySelect Category

Sub Category

Product NameEnter Product Name

Product CompanyEnter Product Comapny Name

Product Price Before DiscountEnter Product Price

Product Price After Discount(Selling Price)Enter Product Price

Product Description

B I U H L A B S E T Font Size Font Family

Product Shipping ChargeEnter Product Shipping Charge

Product AvailabilitySelect

Product Image1Choose fileNo file chosen

Product Image2Choose fileNo file chosen

Product Image3Choose fileNo file chosen

Insert



## Database Tables

```
psql (14.2)
WARNING: Console code page (437) differs from Windows code page (1252)
        8-bit characters might not work correctly. See psql reference
        page "Notes for Windows users" for details.
Type "help" for help.

postgres=# \c shopping;
You are now connected to database "shopping" as user "postgres".
shopping=# \dt
          List of relations
Schema |      Name      | Type | Owner
-----+-----+-----+-----
public | admin           | table | postgres
public | category        | table | postgres
public | orders          | table | postgres
public | ordertrackhistory | table | postgres
public | productreviews  | table | postgres
public | products        | table | postgres
public | subcategory     | table | postgres
public | userlog         | table | postgres
public | users           | table | postgres
public | wishlist        | table | postgres
(10 rows)

shopping=# select * from admin;
 id | username | password |      creationdate      |      updationdate
-----+-----+-----+-----+-----
  1 | admin    | admin    | 2022-04-24 16:21:18+05:30 | 2022-04-10 16:19:08+05:30
(1 row)

shopping=#
```

## **Test Case Design**

Test Case	Test Case Description	Test Data	Expected Result	Actual Result	Pass/Fail
1.	Check response when valid user Id and password is entered	User id:1 Password: rohan	Login should be successful	Login was successful	Pass
2.	Check response when Invalid user Id and password is entered	User id:1 Password: vishal	Pop up of 'unsuccessful login'	Pop up of 'unsuccessful login'	Pass
3.	To check info is updated in database	Required to fill all details	Data should insert in database	Data was inserted in database	Pass
4.	To check if data is removed in database	Click delete button to remove applied	Data should be removed from record of application	Data was removed from record of application	Pass

## Test Case : Admin

Test case no	Test case	Expected output	Exhibiting output	Result
1	No entry in user name field	It will show an error message	Please enter username	Pass
2	Enter correct username and password	Admin must be login	Admin page	Pass
3	Adding grocery items	Add to category and sub category	New items added	Pass
4	Order management	Todays order ,pending order,delivered order	Order status	pass

## Test Case : Customer

Test case no	Test case	Expected output	Exhibiting output	Result
1	Enter correct username and password	User must be login	Login page opened	Pass
2	Phone number field is please	Alert message		Pass
3	Placed order	Order confirmation	The information is in confirmed items	Pass

# **Future Enhancement**

The developed model has some limitations that would be overcome in the future. Following are some proposed enhancement in the system:

- The GUI and styles of system will be improved.
- Dropdowns and Auto generation of various details would be provided.
- More detailed and various types of reports will be generated.
- Encryption of sensitive information would be done.
- System will have a backup of database.

# **Bibilography**

Website :-

- 1) [www.w3schools.com](http://www.w3schools.com)

Reference Books :-

- 1) Web Technologies I & II
- 2) Relational Database Management system