

Project Title

Online Grocery Portal

(By SEMESTER – V of III Year M.Sc. (CA & IT) 2023-24)

Submitted By

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Name Of Company – Sayona E – Grocery Store

Date of Submission – 10/12/2023

Submitted To

K.S School of Business Management

M.Sc. – Computer Application and Information Technology





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Project Report Letter

This is to Certify that Gajjar Helly Pinankkumar has successfully completed analysis and design of the on Online Grocery Portal under me.

"This Work is Original and has not been submitted elsewhere".

Signed by Pro guide,

Name - Hetan B Soni

Designation - Owner

Date - 29/09/2023

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Name - Hetan B Soni

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Date - 29/09/2023

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■ Introduction-

- E-grocery is a combination of the word's e-commerce and grocery. As e-grocery here means grocery shopped over the internet. Customer can purchase grocery items and the items will deliver straight to their home by the delivery person.
- This will allow people to get grocery items by purchasing them using the Internet.
- It facilitates and provide comfort to people when they doing grocery shopping without requiring a lot of time.
- Online markets have been a thing that has come to stay with the society of today since most Financial Transactions can be attained online. The E-grocery makes the people life more comfortable and convenient.
- The urban middle-class families are addicted to online shopping thanks to a year of intense marketing, big sales from e-commerce companies like Amazon and Flipkart, and the COVID-19 pandemic and lockdowns.
- The market value of online grocery across India was over 669 billion Indian rupees in 2023.
- The increasing prevalence of online grocery retailers has caused more and more people to ask the question, “why get in the car and drive all the way down to the grocery store when I can have fresh groceries delivered to my house at the click of a button?”

1.1 Organization Profile –

- Sayona is a retailer-based grocery shop in Ahmedabad, India, that specializes in selling grocery items like fruits, vegetables, grain, beans, snacks, milk-based items etc.
- It's been around 19 years since the shop start, they have been operating through brick-and-mortar stores and now they want to expand their business through online so they can target international audience as well as.
- Sayona will try to connect with the customers via chart, Email and Quick Response etc, So that we can easily get to know that what customers really want, what they are actually demanding, about their likes as well as dislike etc.



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1.2 System Details -

1.2.1 Existing System -

- In this system for shopping, we need to visit the shop manually and from the available grocery item we have to choose the item if user want to buy the item, then he/she has to do purchase it by payment of the price of the item. But now a days there are many online platforms that provide grocery.
- They maintain a manual inventory system and use basic Pos (Point of Sale). In many cases the wide range of grocery item carried by larger supermarkets has reduced the need for such a specially stores the variety and availability of food is no longer restricted by the diversity of Locally grown food or the limitation of the local growing season.

▪ Challenges –

- User must go to shop and select grocery items.
- It is difficult to identify the required grocery item.
- Description of the grocery item is limited.
- It is time Consuming process.
- Not in reach of distant users.
- It is less user-friendly.
- Difficult to handle multiple users.

1.2.2 Proposed System –

- In the proposed system user doesn't need to go the grocery store for buying grocery items. They can order the grocery item which they want to buy through this website.
- In this system the shop owner will be the admin of the system. Shop owner can hire moderators who will help the owner in managing users and grocery item orders.
- The system also recommends a home delivery system for the purchase grocery items.
- In this system there is no need of time and place people can use this system at anywhere and anytime whenever they want.



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- This platform allows user to see the products, read reviews, explore price and make a purchase. In which they are more comfortable. The backend support inventory management has the feature of customer support that can help the customer's experience easier and more convenient.

▪ **Advantages –**

- It has customer-oriented interface that provide the friendly use of the system it also collects the feedbacks and provides the best services of it's to the customers. This system also gives authority of payment options that explains which medium they had selected for payment to the customers.
- It attempts to enhance admittance to care and improve the continuousness and good organization service.
- Wider audience reach, including international customers.
- Real time inventory Management.
- Ability to provide 24 / 7 Shopping convenience to customers.
- Better insight into customers behaviour and preference using data Analytics.
- The proposed system helps to encourage the retailers. It also has the community to enhance the online grocery business.

1.3 Scope of the System –

- Display a vast range of grocery items with specification, prices and reviews. This organization is beneficial for both users and companies.
- Securely handling customers data and transaction. By using a security credentials like u-id, password etc... so that any illegal user can't Access your account.
- Offering a Responsive design for both desktop and Mobile users.
- Integrating with logistics partners for seamless shipping and tracking.
- Providing customer support via chat, Email and Quick Response.
- With the help of this system customer can easily add/update/delete product from cart and make purchase. We provide different payment mode so that customer can easily do the payment and on based on this we will generate the bill which include different types of the offer like seasonal, occasional, discount on above certain amount etc and provides discount on offer. And after this we make sure that we provide our product to the customer in reasonable time limit.



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1.4 Objectives –

- **Accessibility -**

- Provides accessible information about the product to customers who have are cut-off by distance of other constrains but need to shop or window shop.

- **Data Security -**

- Implement stringent security measures to safeguard customers data and Transaction detail.

- **Operational Efficiency -**

- Automate inventory Management to reflect real-time stock status.

- **Reduce Losses -**

- Extremely minimize the losses due to shoplifting and cost associated with security.

- **Customer Support -**

- Offer a robust customer support system to Address queries, returns, quick response and technical issues.



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2.1 Stakeholder of System: -

- Stakeholder are individuals or entities that have an influence or be influenced by its outcome.
- In other words, Project stakeholder are the people the people or groups who have something to gain from your project's outcome.
- There are many different stakeholders in E-grocery business, and each one of them has different interests.

▪ Admin: -

- The highest level of access to the website.
- Admin can add, remove, update content on all pages and access all items in admin toolbar.
- Admin can view all the purchasing process that made by the customer.
- Manage users, informative dashboard and reports of product.

▪ Customer/User: -

- The primary users of the website who will browse and make purchase.
- Access the various Functions of the website.
- Allow to login and registration in secure manner.
- Customer can easily add/update/remove product from add to cart.
- Customers can also give the feedback and give their review about their purchase, which can help improve product and services.

▪ Developer: -

- They will design, built, Test and maintain the website.
- Also handle the technical aspects of a website, including its performance and capacity.



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▪ **Visitor: -**

- As soon as more people visit your site the more potential customers you will have.
- Visitors are also the essential part of the website. With the help of the website the visitors see the product.
- If visitor is impressed by our performance, then they can become our customers as well as so they are also essential element of the system.
- If they want to purchase then first register themselves.

2.2 Requirement Gathering Technique Used: -

- Requirement Gathering is basically a process in which we understand and identify a business's Project technical requirements and proceed with a well-defined plan. Requirement Gathering is an art.
- The Person who gathers requirements should have Knowledge of what and when to gather information and by what resources. It's difficult to build a solution if you don't know the requirements.
- The Elicitation step is where the requirements are first gathered from the various client/users/customers. There are many Techniques available for gathering the requirements.
- There are various ways to discover requirements some of the tools are Interview, Review, Observation, Prototyping etc.
- Requirements gathering tools are simply resources that you can use to complete the requirements gathering process more easily, more quickly, and more successfully.
- Effective requirements engineering is crucial to the success of software development projects.
- It helps ensure that the software system meets the needs of all stakeholders and is delivered on time, within budget, and to the required quality standards.
- This involves talking and gathering insights from stakeholders, such as end users, higher management, and project team members.
- The end goal of requirements gathering is to create a comprehensive list of requirements that will serve as a single source of information for the project's development.



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Interview -

• Admin –

1). Do you have basic knowledge of IT?

➤ Yes.

2). Describe your business in few sentences?

➤ We have retailer base grocery shop, that specialized in selling grocery items. Which has been operating through brick-and-mortar store.

3). Do you currently have a website?

➤ No.

4). What are your goals for this Project?

➤ To expand our business and offer a vast number of products to various customers.

5). Will you able to generate report time by time?

➤ Yes. We will keep the records weekly.

6). Will you collect the Analytics?

➤ Yes.

7). What are the current problems you are facing without the web application?

➤ It is too difficult to handle multiple customers at the same time, with their records.

8). Why are you moving on web-app?

➤ Customers don't need to come manually for the purchase of an item. It will open 24/7, and this will help to avoid us the human traffic.



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9). What are the features do you want on the site?

- Admin can handle various processes and provide a best customer service, and it should be user friendly also.

10). Will you able to communicate the needy updates of the system to the clients via- Emails / Messages?

- Yes.

• Customers –

1). What are the features do you want?

- Easy to use, data security, handle the profile, various payment mode and fast delivery.

2). Are you comfortable with different payment mode?

- Yes.

3). Would you rather prefer online or offline system?

- Online because it is easy to use and work done in less time compare to the offline system.

4). Have you ever bought grocery online?

- Yes.



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2.3 Consolidated List of Requirements: -

- It must be user-friendly.
- Admin can handle the products and view all the process made by the customer.
- Customer can easily view the product and its information, and they can add multiple products in cart.
- Customer can handle their profile with Security.
- Availability of different payment mode in secure manner.
- Easy to purchase at cheaper price, and generate the bill with specific information.
- Handle the different query and questions of the users, and give quick response. Also provide FAQs.
- Collect the feedbacks about the system and product for the system analysis and data analysis.
- Handle the return orders and also replace orders.
- The system wants a minimum of two GB of ram to run all the options sleek and unforeseen.
- For security opposing anti-virus is suggested.

2.4 Project Definition: -

- The Online grocery Portal e-commerce platform project aims to develop a user-centric online store for grocery.
- The platform seeks to offer an extensive range of grocery product, ensuring secure transaction, real-time inventory management and robust customer support.
- Through this platform, online grocery portal aspires to expands its customer base, provide 24/7 shopping convenience and elevate it's "market position the grocery retail sector".
- It is an advanced mechanism of making purchases of products by simply making an order via online platform.
- Due to increased competition in the grocery industry, providing customers with an option to make purchases through the online platforms by using phones, laptops will reduce competition hence achieve desired goals of success.
- We will provide Great range of products to our customers through e-commerce platform. Great range of products is to ensure full customer satisfaction as he or she will have to choose from many provided products.



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3.1 Feasibility Study: -

- A feasibility study aims to provide an independent assessment that examine all aspects of a proposed system including technical, economical, financial, legal and environment considerations.
- This information then helps decision makers determine whether or not to proceed with the system.
- Feasibility studies are crucial for assessing the viability of a project before diving in. Let's break down the key types of feasibility studies:

1. Technical Study
2. Economical Study
3. Operational Study

3.1.1 Technical Study: -

- This includes the study of functions, performance and constraints that may affect the ability to achieve an acceptable system.
- For this feasibility study we studied complete functionality to be provide in the system about the technology that used to build the system, it has acquired at affordable cost, it has the capacity to meet the requirements of the data storage, high processing speed, it is expandable in future and the Technology obsolete or likely to be obsolete in near future.

3.1.2 Economical Study: -

- This is a very important aspect to be considered while developing a system. We decided the technology on minimum possible cost factor.
- This study involves budgeting, cost analysis, and foresight into potential unforeseen expenses.
- It's a meticulous financial assessment, not just about having funds available, but ensuring that the project's economic gains surpass its expenditures.



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- All the hardware and software cost have to be at lower price overall we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

3.1.3 Operational Study -

- No doubt the proposed system is fully online based that is very user friendly and all inputs to be taken all self-explanatory even to a layman.
- Besides a proper training has been conducted to let know the essence of the system to the user so that they feel comfortable with new system.
- As far our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

3.2 Hardware – Software Requirement: -

Hardware	Description
Processor	Minimum core i3 or higher
Hard disk	Minimum 500 MB
Ram	Minimum 2 GB

Software	Description
Os	Microsoft windows 8 or above
Front-end	Html, css, Javascript
Back-end	Java,
Database	Mysql



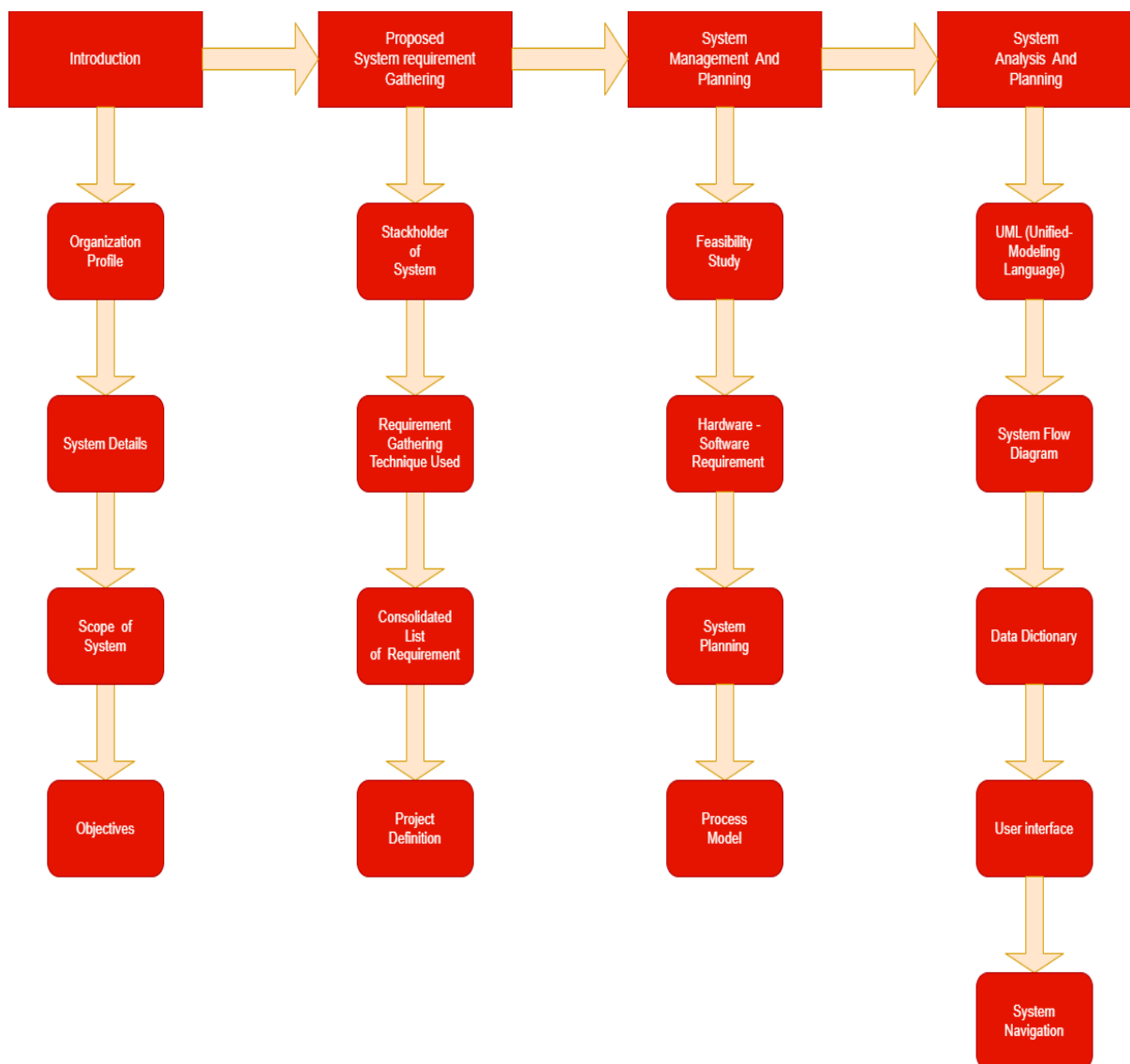
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3.3 System Planning: -

3.3.1 Work Breakdown Structure: -





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3.3.2 Gantt Chart: -

	September	October	November	December	January	February	March	April
1. Start of project								
• Definition								
• Submission								
• Approval of submission								
2. Requirement Gathering								
• Defining								
• Stakeholders								
• Interview								
• Scope of the system								
3. Planning								
• Analysing								
• Requirements								
• Feasibility Study								
• technical								
• Economical								
• Operational								
4. System Design								
• UML Diagrams								
• System Flow								
• System Navigation								
5. Development [Coding]								
6. Testing and implementation								



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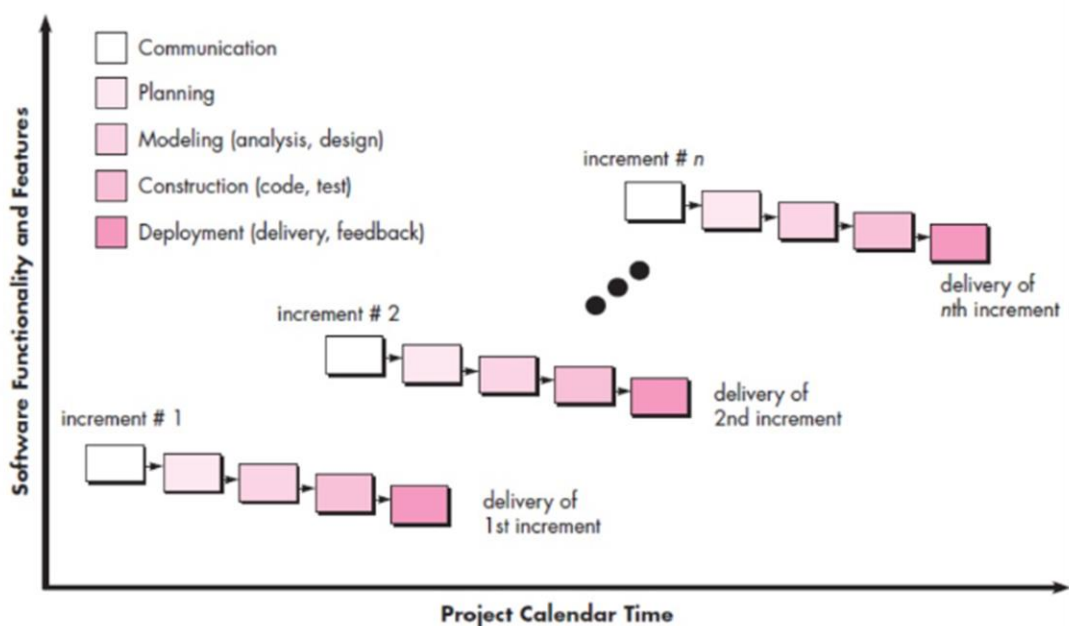
3.4 Process Model: -

- Process model is the mechanism of dividing software development work into distinct phases to improve design, Product management and Project management.
- There is various model available for process model like v-model, waterfall model, incremental model, spiral model, Iterative model and agile model etc. Each model type is used to satisfied different types of requirements.

▪ Incremental Model: -

- Incremental model is a process of software development where requirements divided into multiple standalone modules of the software development cycle.
- In this each module goes through the requirements, design, implementation and testing phase.
- Every subsequent release of the module adds functions to previous release. The process continues until the complete system achieved.

Incremental Model





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▪ **When we use Incremental Model? -**

- When the requirements are Superior.
- A project has a lengthy development schedule.
- When software team are not very well skilled or trained.
- When the customers demand a quick release of the product.
- You can develop prioritized requirements first.

▪ **Why we use Incremental Model? -**

- Errors are easy to be recognize.
- Easier to test and debug more flexible.
- Simple to manage risk because it handles during its iteration.
- The clients get important functionality early.
- Module by Module working.
- More Flexible.

▪ **EXAMPLE OF A SUCCESSFUL INCREMENTAL MODEL: -**

- The incremental model is used by leading software companies like WhatsApp, Windows, and MS Office. That's because, as users, day-to-day needs evolve and so do their demands for better products. Hence, these companies evaluate their needs and repeat the SDLC process.



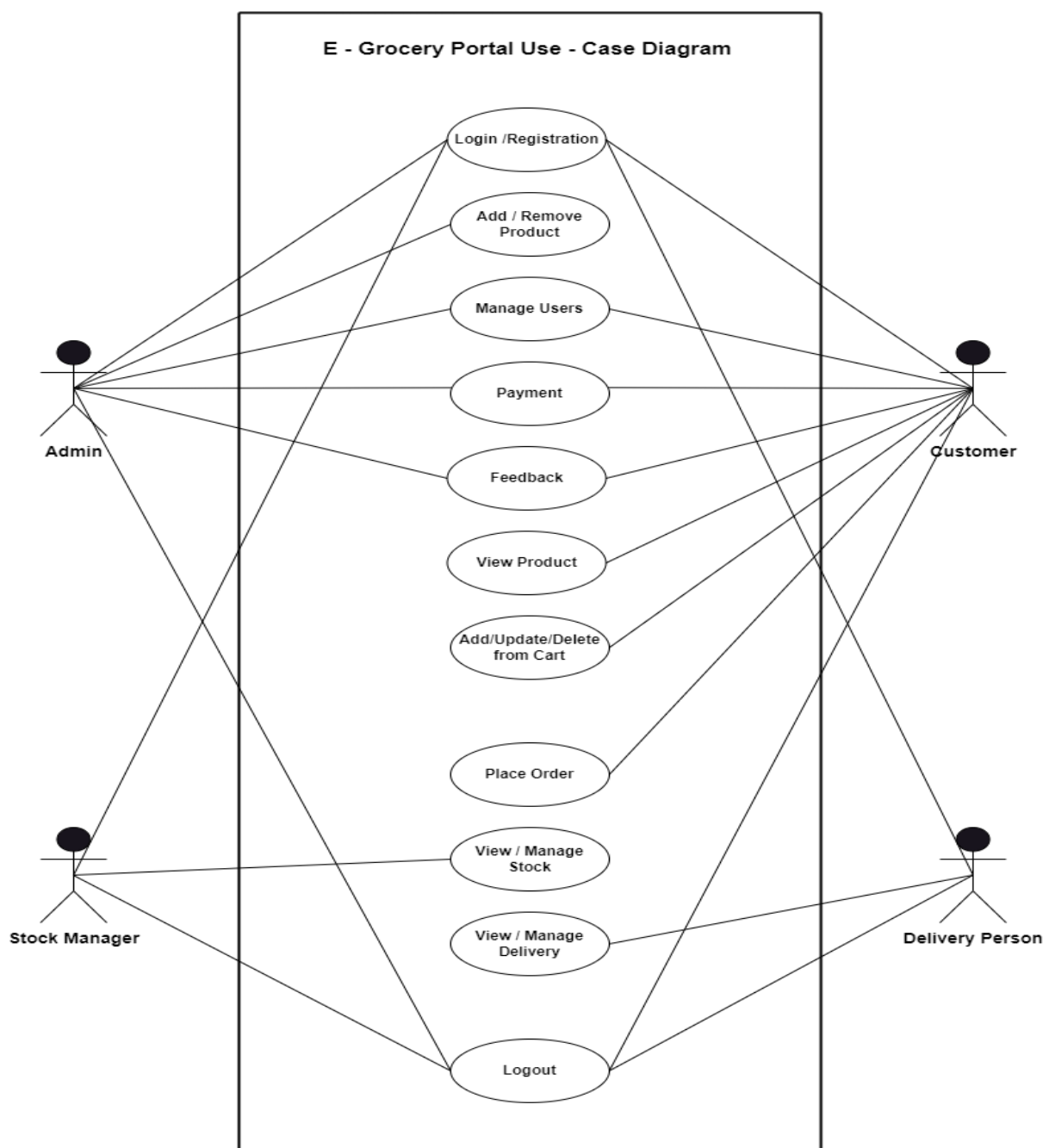
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❖Ch-4

■ Use – Case Diagram: -



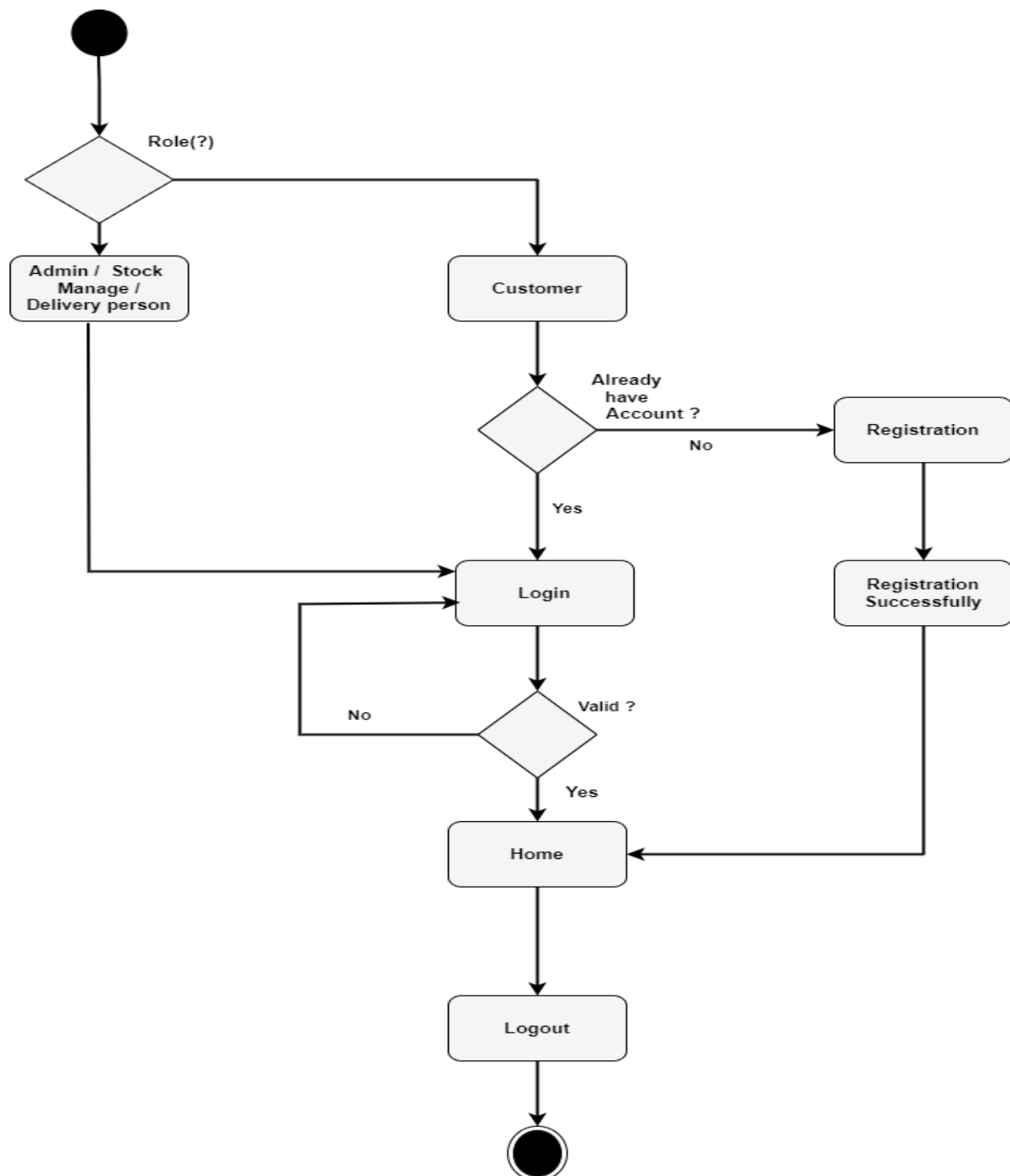


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➤ Login Activity Diagram: -



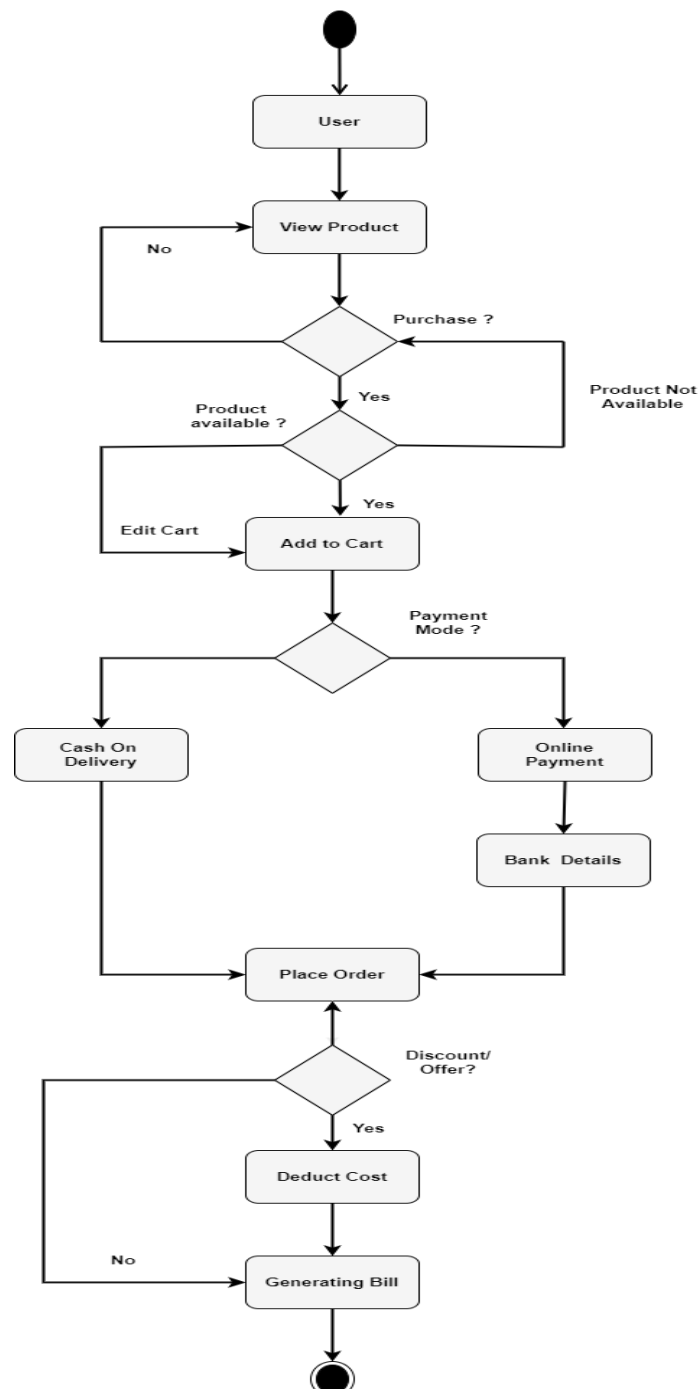


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➤ Billing Activity Diagram: -



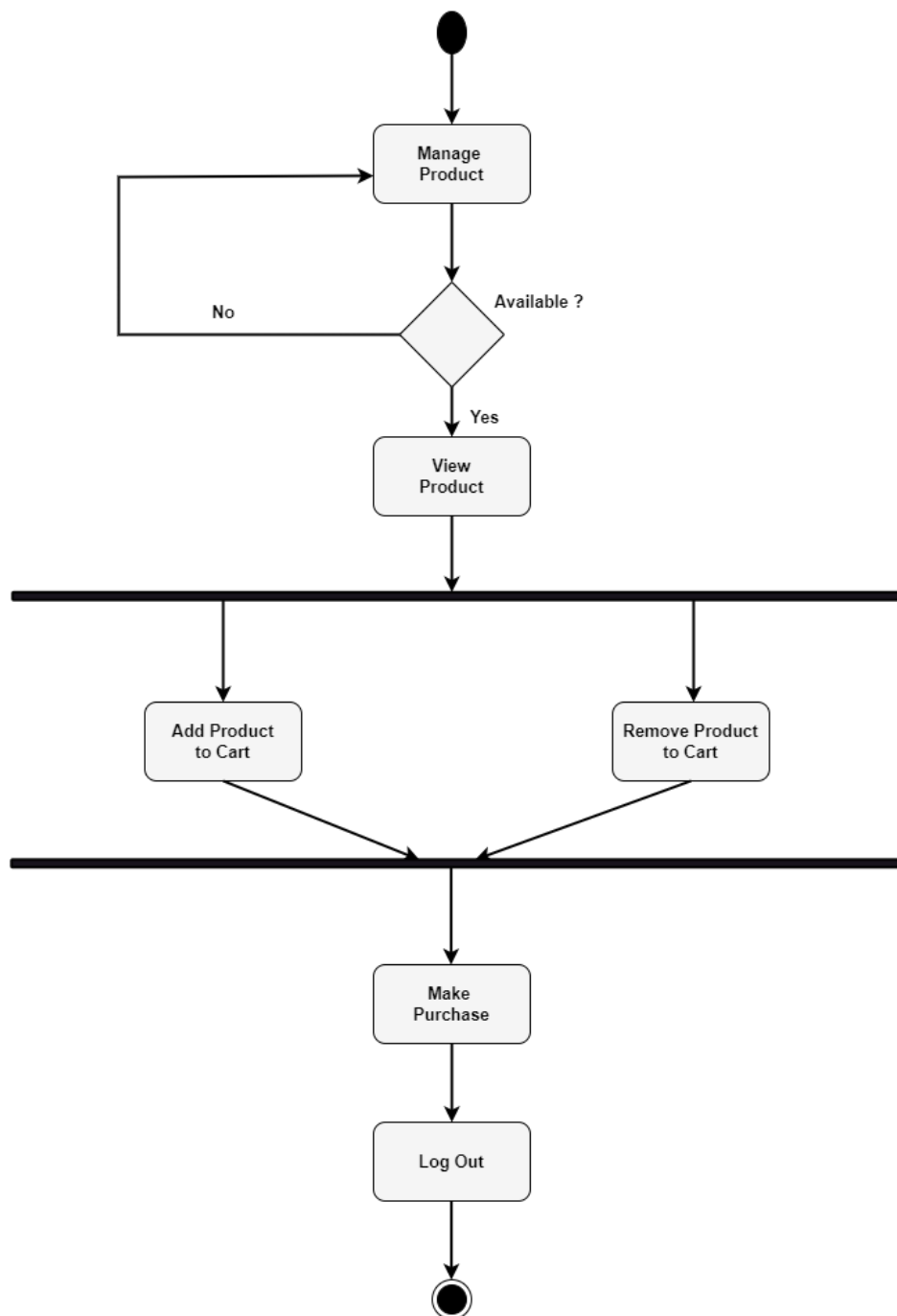


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➤ Product Activity Diagram: -



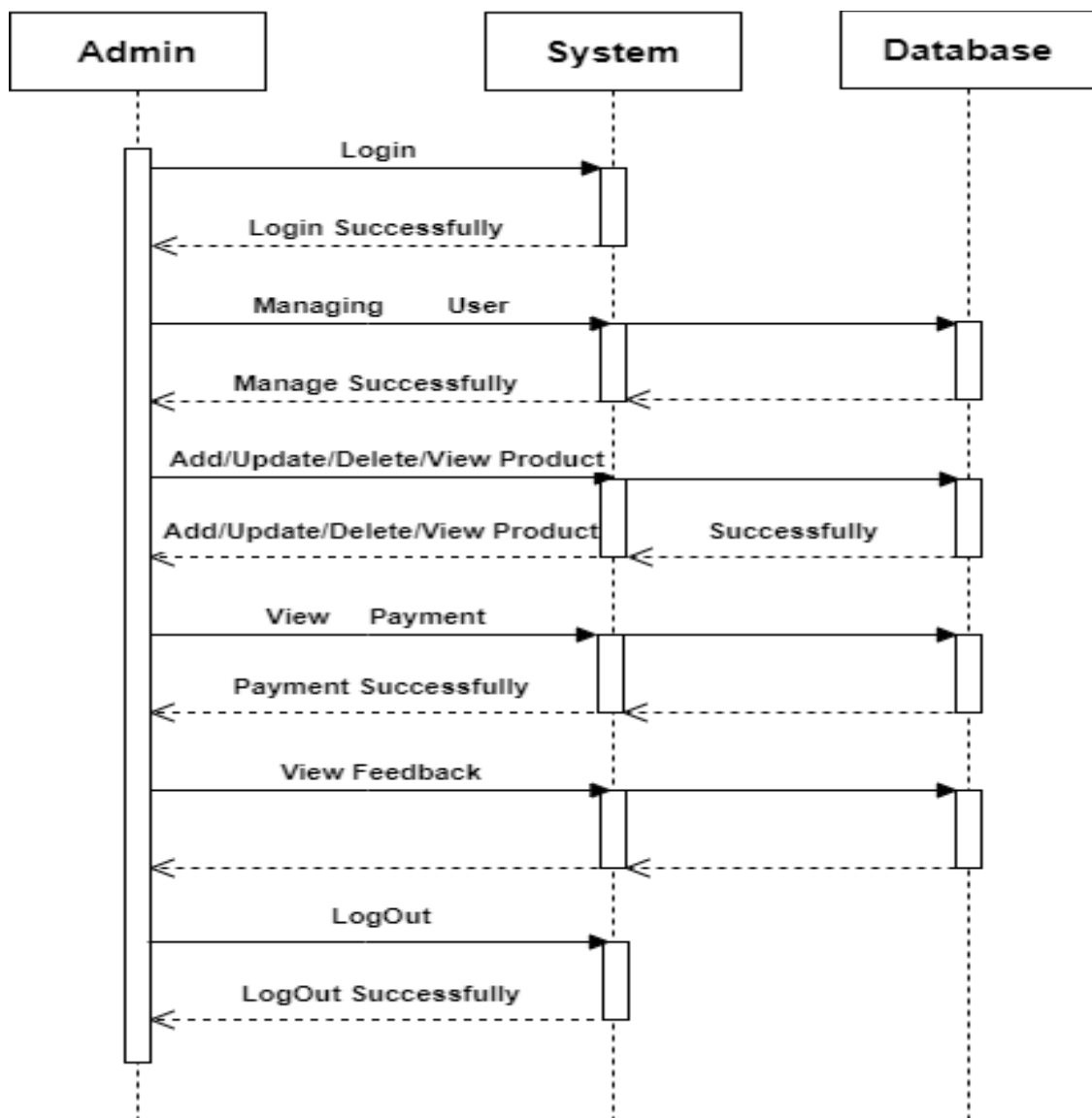


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➤ Admin Sequence Diagram: -



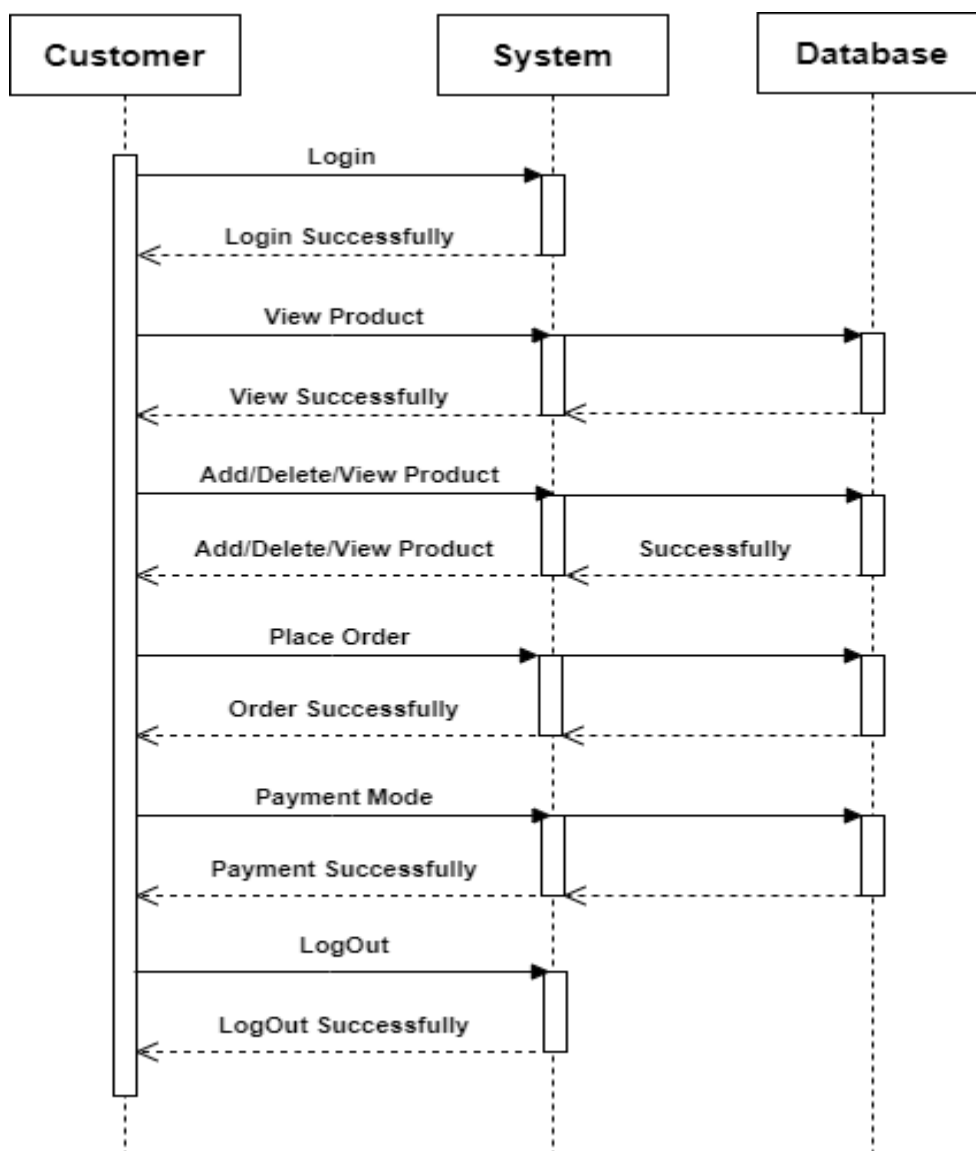


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➤ Customer Sequence Diagram: -



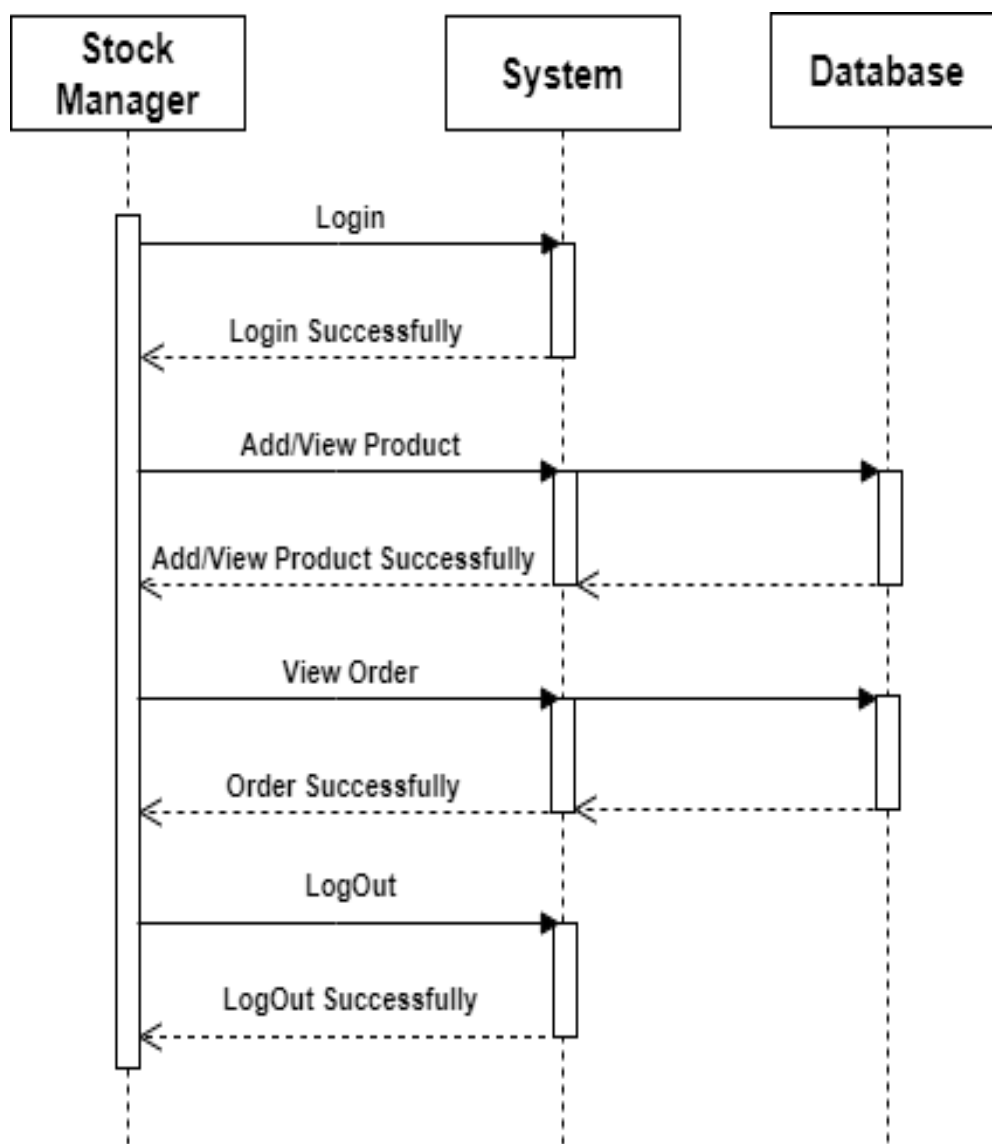


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➤ Stock Manager Sequence Diagram: -



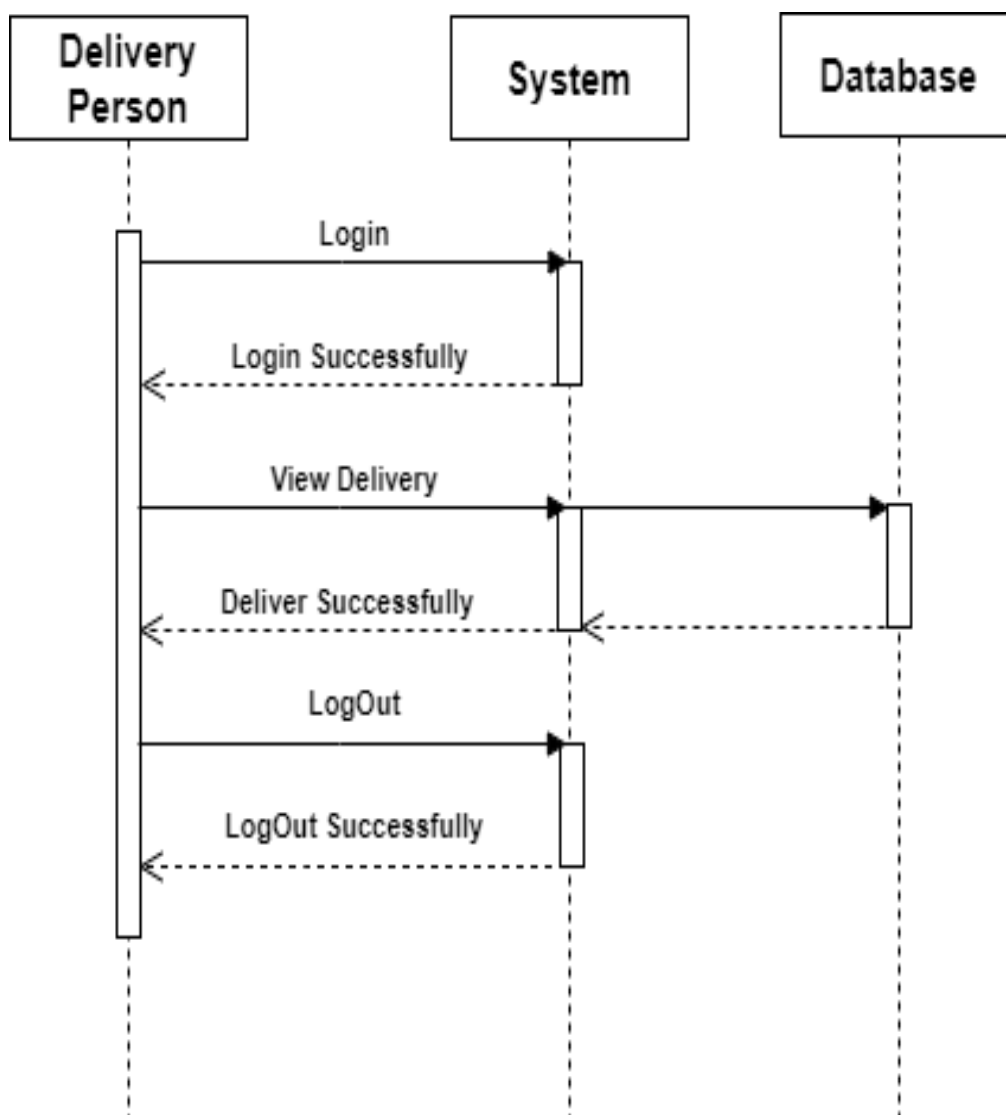


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➤ Delivery Person Sequence Diagram: -



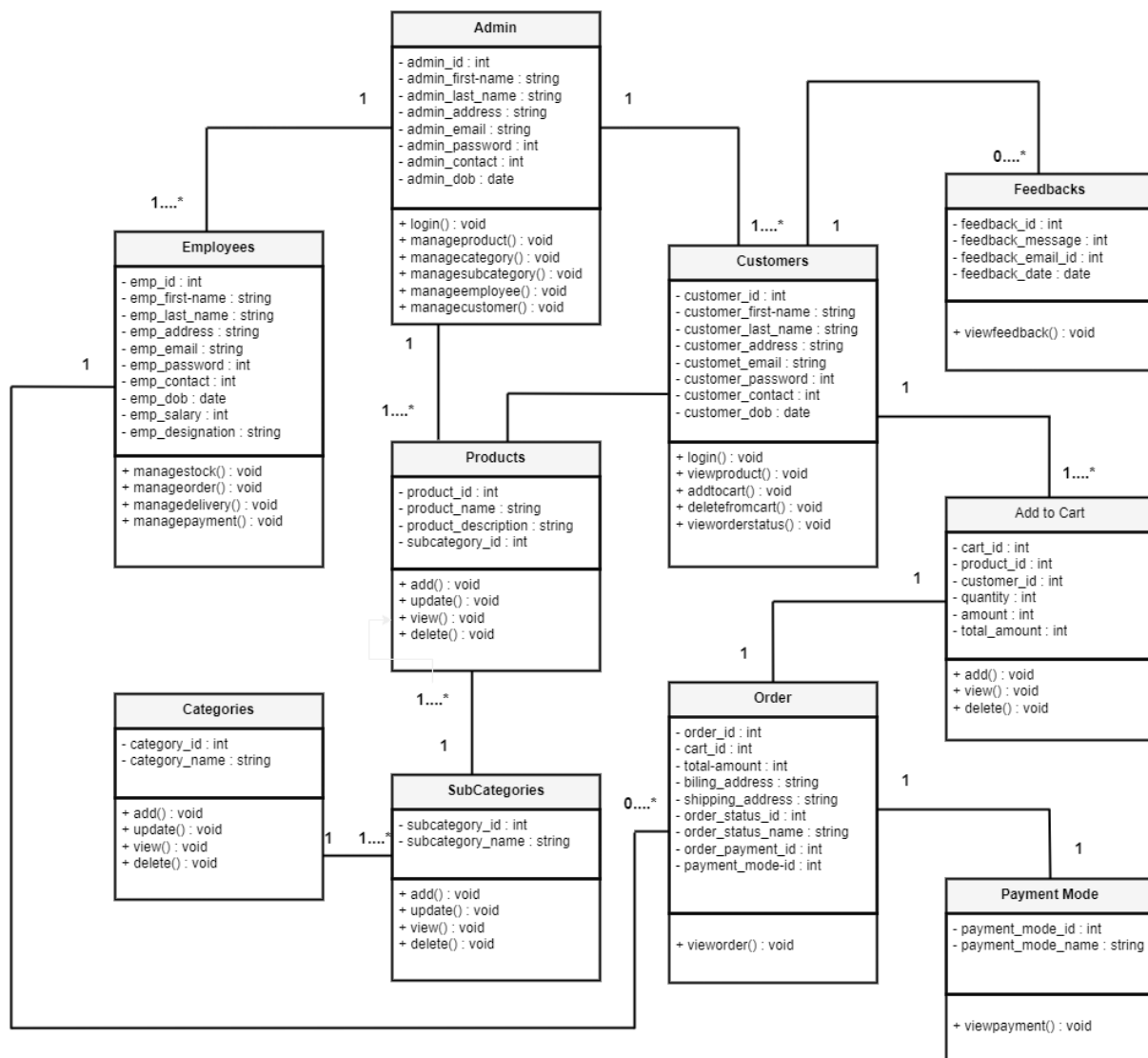


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■ Class Diagram: -



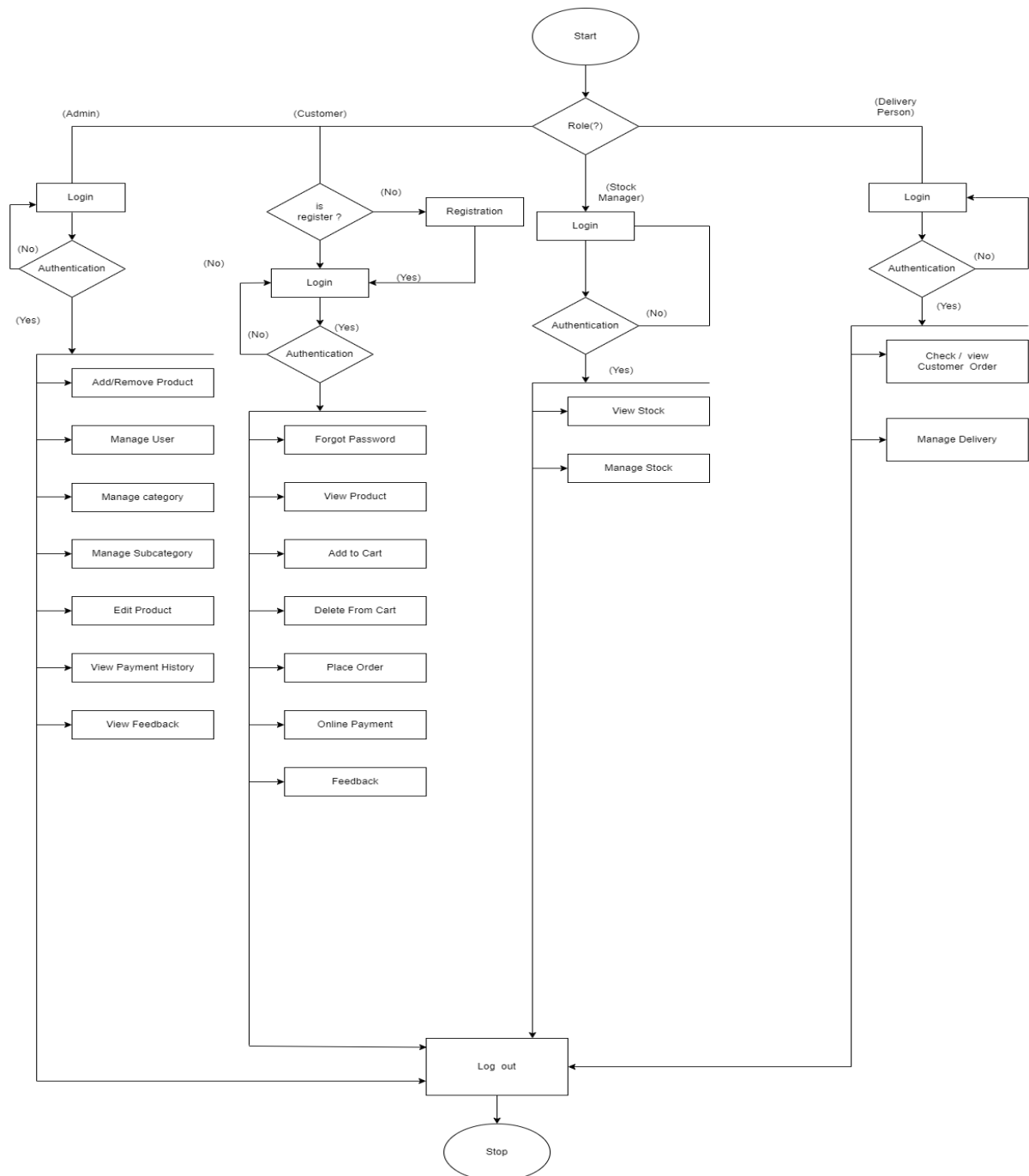


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■ System Flow Diagram: -





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▪ Data Dictionary: -

Admin Table				
No	Column Name	Datatype	Size	Constraint
1	Admin_id	Int	5	Pk
2	Admin_firstname	Varchar	50	Not Null
3	Admin_lastname	Varchar	50	Not Null
4	Admin_email_id	Varchar	30	Not Null
5	Admin_address	Varchar	100	Not Null
6	Admin_contact	Int	15	Not Null
7	Admin_Dob	Date	10	Not Null
8	Admin_password	Varchar	13	Not Null

Customer Table				
No	Column Name	Datatype	Size	Constraint
1	Customer_id	Int	5	Pk
2	Customer_firstname	Varchar	50	Not Null
3	Customer_lastname	Varchar	50	Not Null
4	Customer_email_id	Varchar	30	Not Null
5	Customer_address	Varchar	100	Not Null
6	Customer_contact	Int	15	Not Null
7	Customer_Dob	Date	10	Not Null
8	Customer_password	Varchar	13	Not Null



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Employee Table

No	Column Name	Datatype	Size	Constraint
1	Employee_id	Int	5	Pk
2	Employee _firstname	Varchar	50	Not Null
3	Employee _lastname	Varchar	50	Not Null
4	Employee _email_id	Varchar	30	Not Null
5	Employee _address	Varchar	100	Not Null
6	Employee _contact	Int	15	Not Null
7	Employee _Dob	Date	10	Not Null
8	Employee _password	Varchar	13	Not Null
9	Employee_salary	Int	5	Not Null
10	Employee_designation	Varchar	30	Not Null

Salary Table

No	Column Name	Datatype	Size	Constraint
1	Employee _salary_id	Int	5	Pk
2	Employee_id	Int	5	Fk
3	Employee_designation	Varchar	30	Not Null
4	Employee_salary_date	Date	10	Not Null



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Category Table

No	Column Name	Datatype	Size	Constraint
1	Category_id	Int	5	Pk
2	Category_name	Varchar	50	Not Null

Subcategory Table

No	Column Name	Datatype	Size	Constraint
1	Subcategory_id	Int	5	Fk
2	Subcategory_name	Varchar	50	Not Null

Product Table

No	Column Name	Datatype	Size	Constraint
1	Product_id	Int	5	Pk
2	Product_name	Varchar	50	Not Null
3	Product_description	Varchar	200	Not Null
4	Category_id	Int	5	Fk



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Add to Cart Table

No	Column Name	Datatype	Size	Constraint
1	Cart_id	Int	5	Pk
2	Product_id	Int	15	Fk
3	Customer_id	Int	15	Fk
4	Quantity	Int	20	Not Null
5	Amount	Int	6	Not Null
6	Total_amount	Int	6	Not Null

Order Table

No	Column Name	Datatype	Size	Constraint
1	Order_id	Int	5	Pk
2	Cart_id	Int	5	Fk
3	Total_amount	Varchar	5	Not Null
4	Biling_address	Varchar	100	Not Null
5	Shipping_address	Varchar	100	Not Null
6	Order_status	Varchar	50	Not Null



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Order Payment Table

No	Column Name	Datatype	Size	Constraint
1	Order_Payment_id	Int	5	Pk
2	Order_id	Int	50	Fk
3	Payment_mode	Varchar	50	Not Null
4	Payment_date	Date	8	Not Null

Order Feedback Table

No	Column Name	Datatype	Size	Constraint
1	Feedback_id	Int	5	Pk
2	Feedback_message	Varchar	100	Not Null
3	Feedback_date	Date	8	Not Null
4	Product_id	Int	5	Fk
5	Customer_id	Int	5	Fk



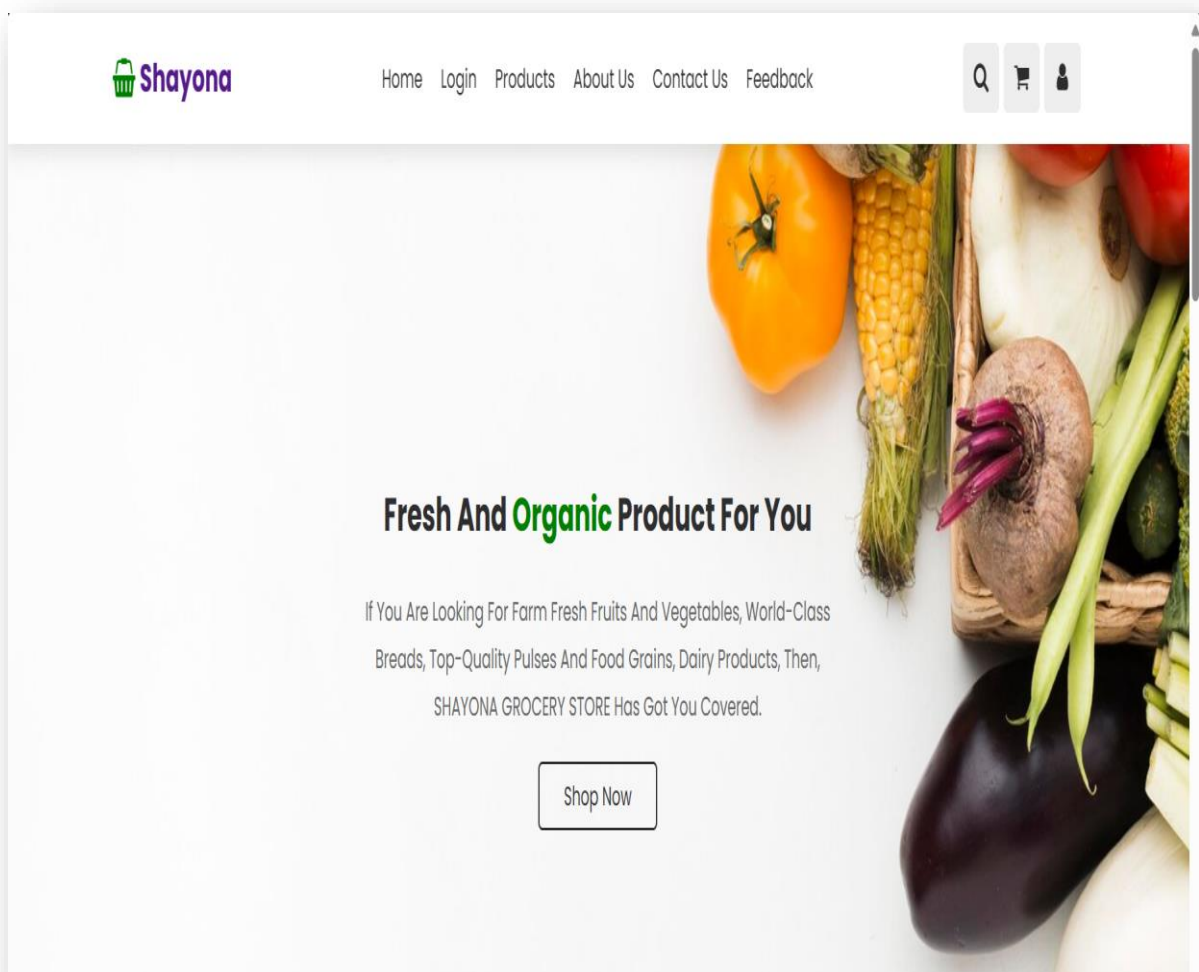
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■ User Interface: -

➤ Home Page of a System: -





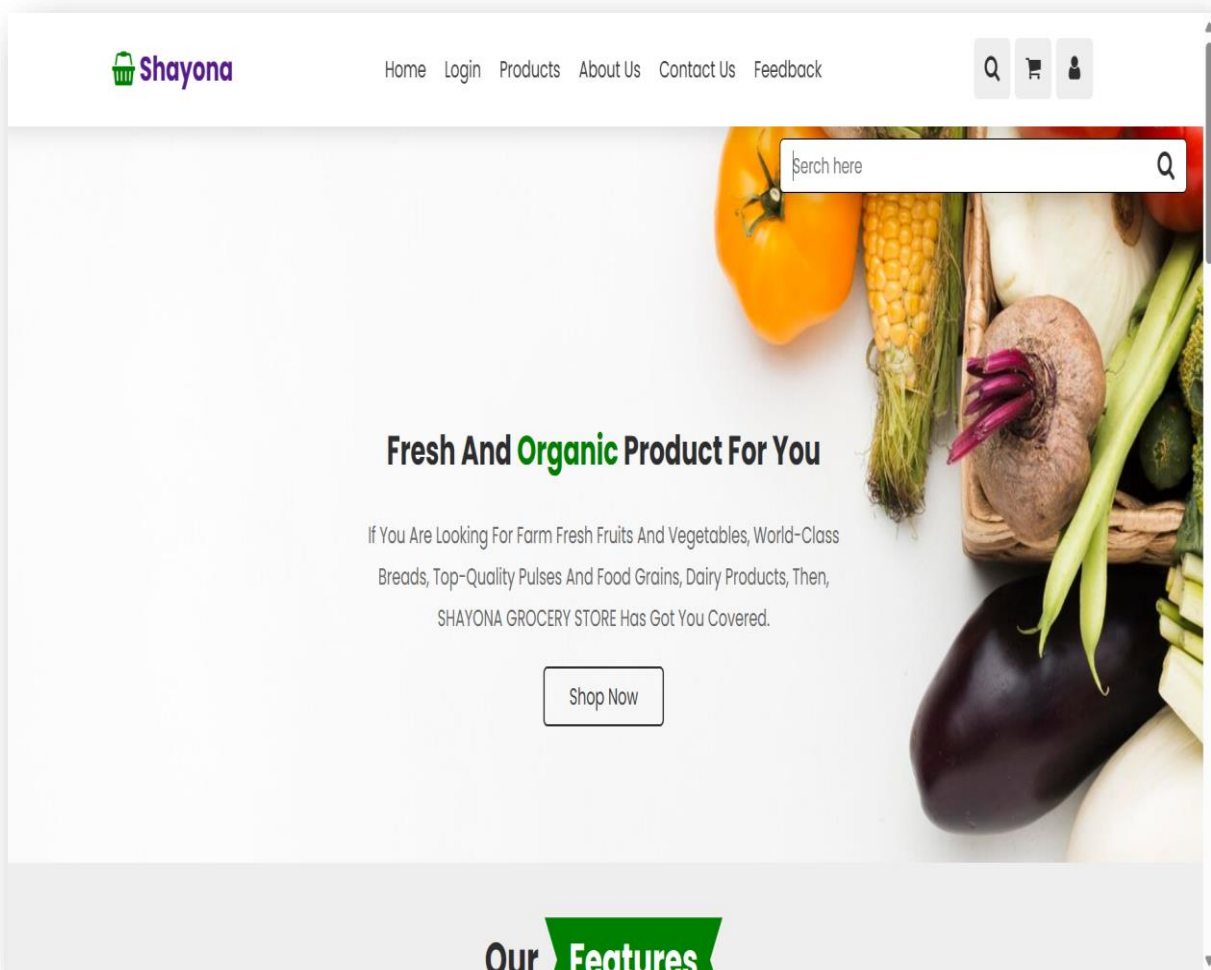
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■ User Interface: -

➤ Home Page of a System: -





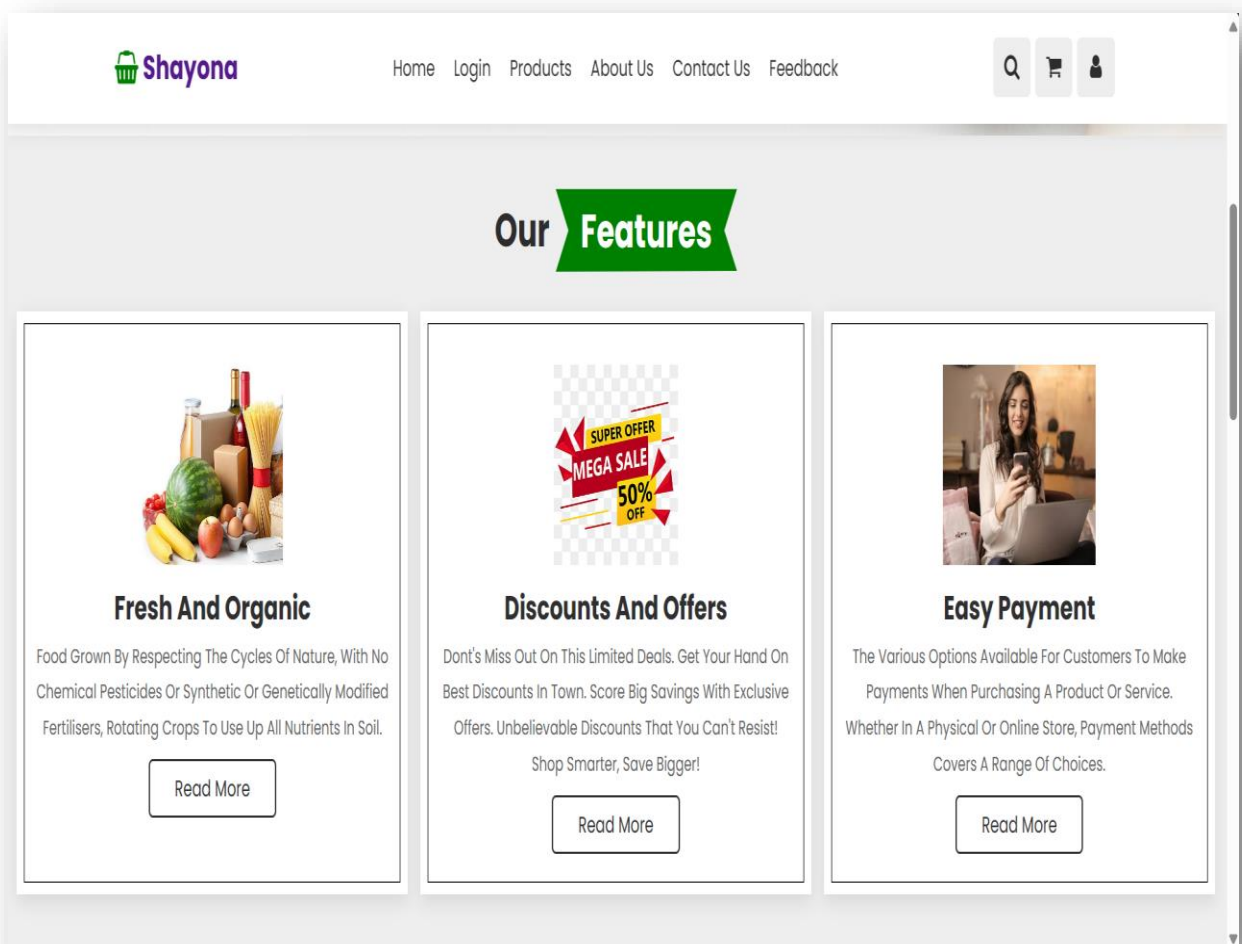
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▪ User Interface: -

➤ Home Page of a System: -





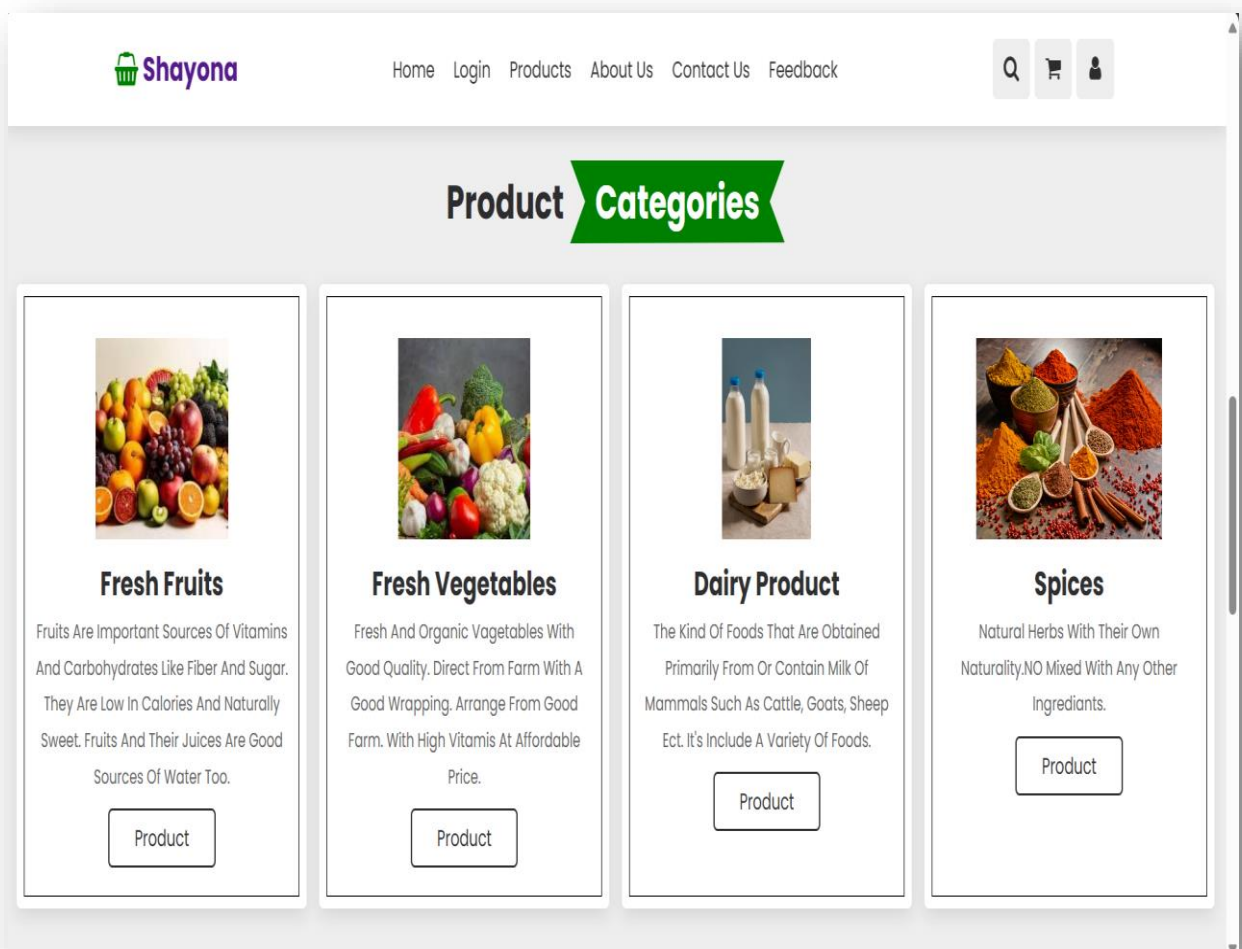
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▪ User Interface: -

➤ Home Page of a System: -





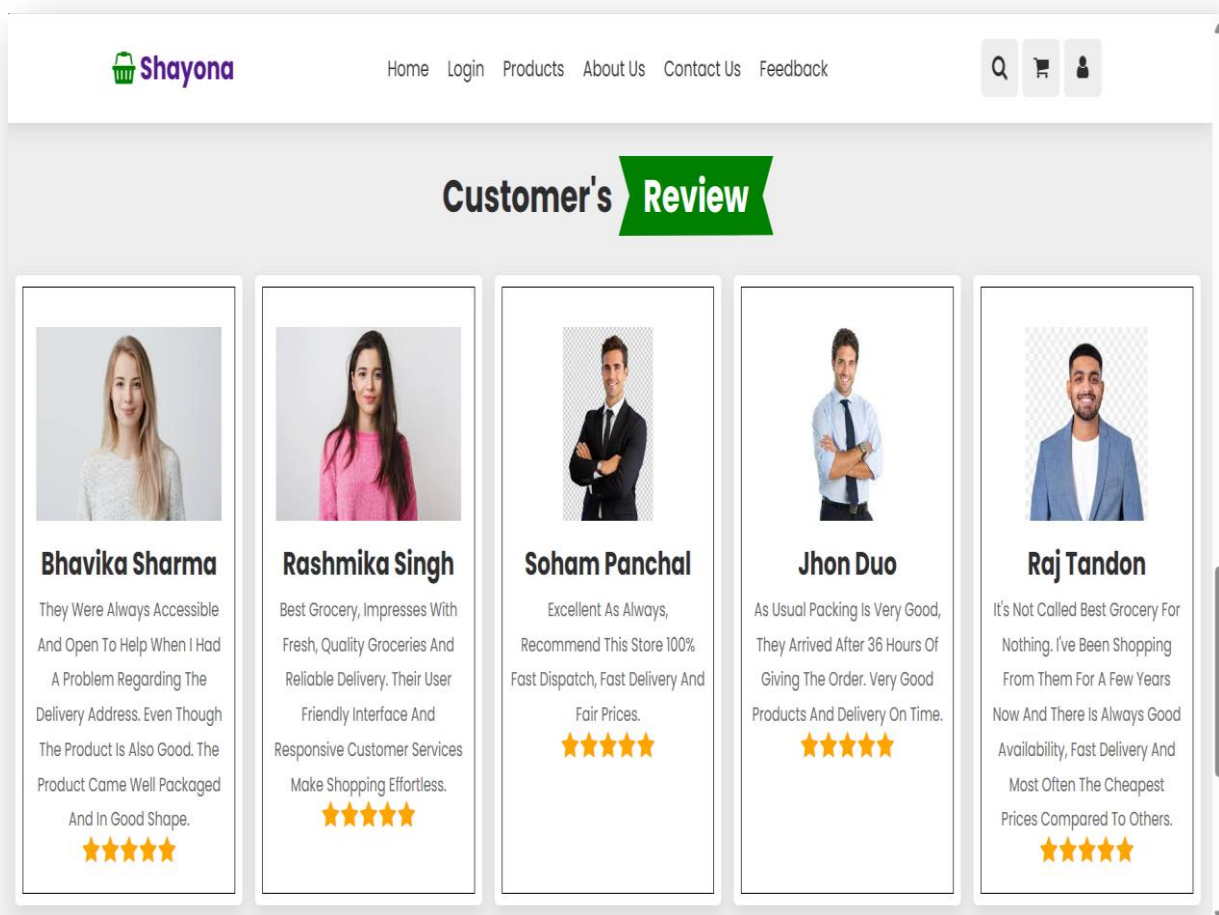
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■ User Interface: -

➤ Home Page of a System: -





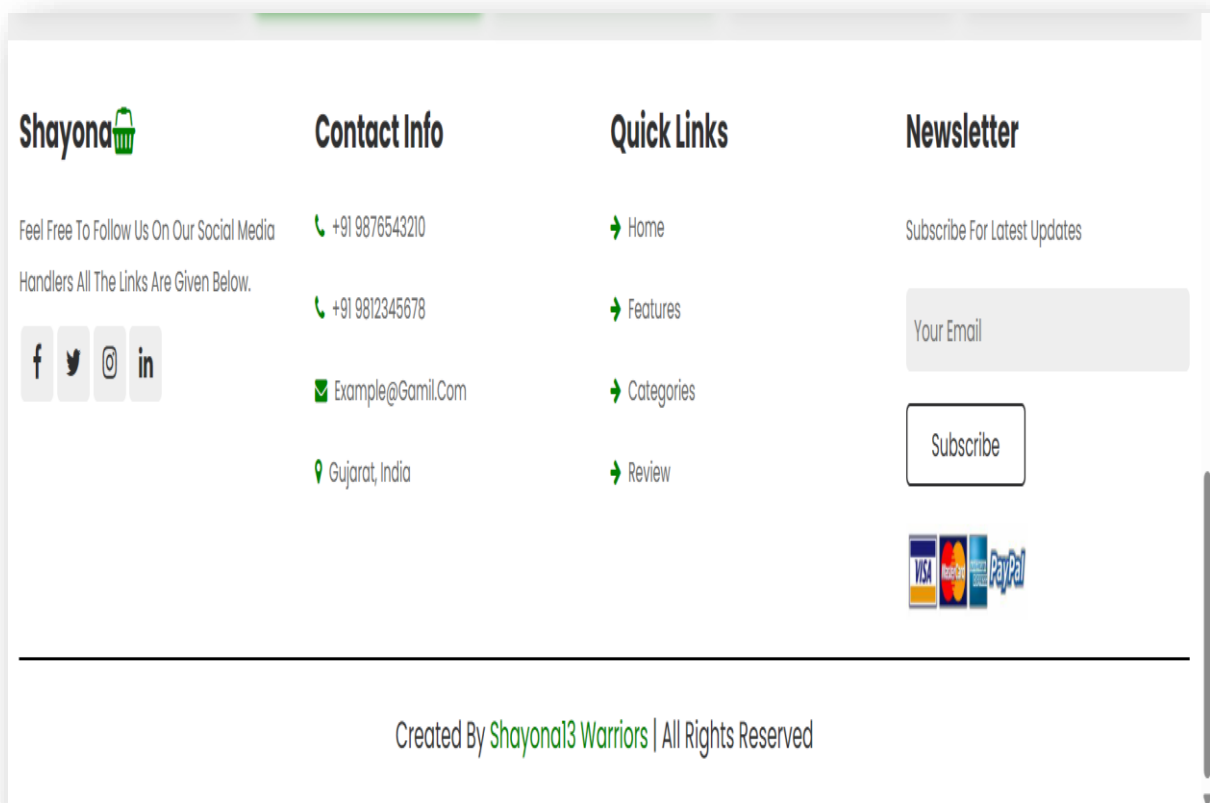
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➤ Home Page of a System: -





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■ User Interface: -

➤ Home Page of a System: -

ABOUT US

If you are looking for farm fresh fruits and vegetables, world-class breads, top-quality pulses and food grains, dairy products, then, **SHAYONA GROCERY STORE** has got you covered. No more getting stuck in traffic jams, paying for parking, standing in long queues and carrying heavy bags- get everything you need, when you need, right at your doorstep. Right from fresh fruits and vegetables, rice and dals, spices and seasonings to packaged products-we have it all. Choose from a wide range of options in every category, exclusively handpicked to help you find the best quality available at lowest prices. Select a time slot for delivery and your order will be delivered right to your doorstep anywhere in India. Shopping online is now easy as every product on your monthly shopping list is now available online at **SHAYONA GROCERY STORE**.

To go to the home page, click on the Shayona Grocery Store icon.

Get in touch with us through the popular social media platforms.



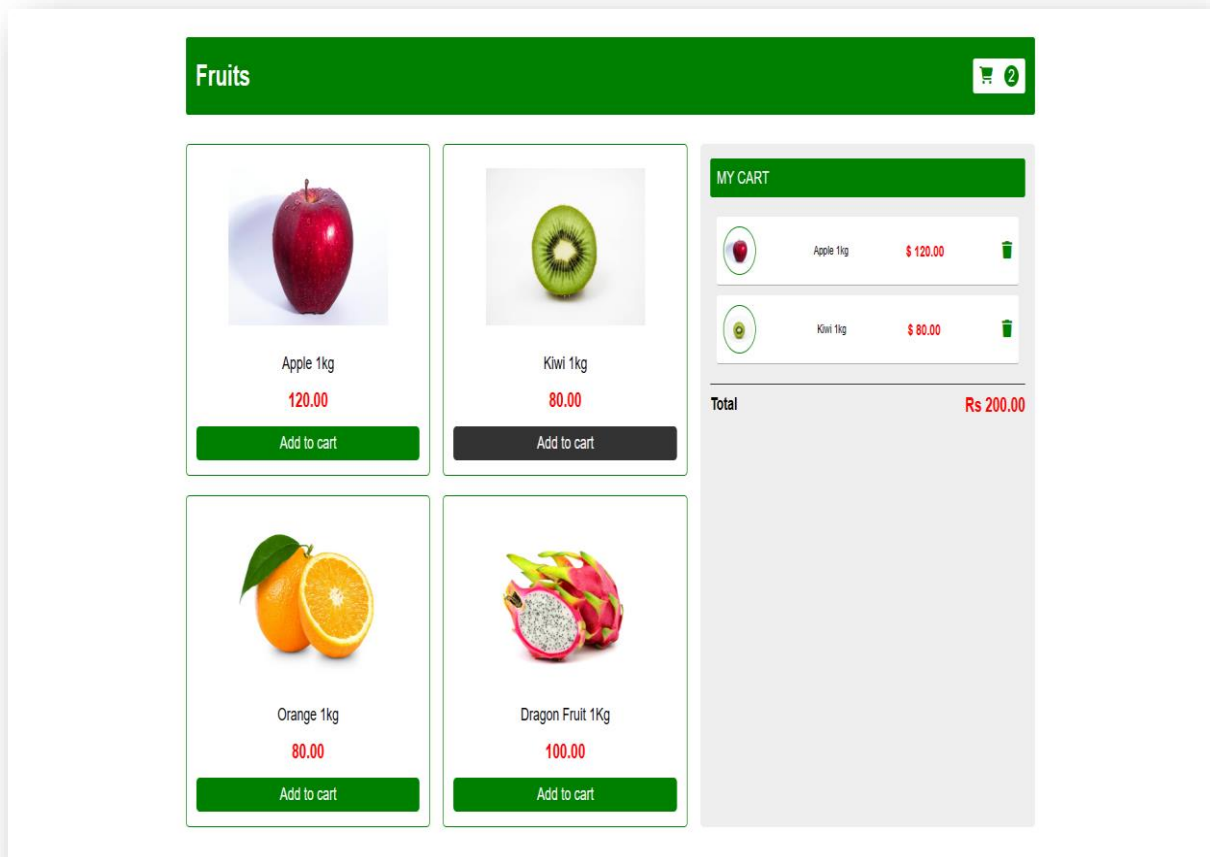


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➤ Categories Of a System: -






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➤ Categories Of a System: -


Vegetables




Spinach 1kg
50.00
Add to cart



Tomato 1kg
40.00
Add to cart







Potato 1kg
80.00
Add to cart





Cabbage 1kg
70.00
Add to cart

MY CART

 Spinach 1kg \$ 50.00 

 Potato 1kg \$ 80.00 

 Cabbage 1kg \$ 70.00 

Total Rs 200.00




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➤ Categories Of a System: -


Dairy Products



Amul Dahi 1kg

73.00


Add to cart



Amul Butter 1kg

90.00


Add to cart



Amul cheese 1kg

80.00

Add to cart





Amul Milk

90.00

Add to cart

MY CART

Amul Butter 1kg\$ 90.00

Amul Milk\$ 90.00

TotalRs 180.00



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➤ Categories Of a System: -

Spices

Cinnamon 1kg
283.00
Add to cart

Clove 1kg
190.00
Add to cart

Black Pepper 1kg
380.00
Add to cart

Coriander seeds
290.00
Add to cart

MY CART

	Cinnamon 1kg	\$ 283.00	
	Clove 1kg	\$ 190.00	
	Coriander seeds	\$ 290.00	
	Black Pepper 1kg	\$ 380.00	
Total		Rs 1143.00	



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➤ Login Form of a System: -

CONTACT FORM

Name

Subject

Phone

Email

Message



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➤ Login Form of a System: -

SUCCESS!

**Your Form Has Been
Successfully Submitted. We
Will Get Back To You Within 2
Working Days.**

[Home](#)



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➤ Feedback Form of a System: -

Feedback from Customer

Overall Experience:

5 - Very Satisfied

What did you like most about your experience?

Areas for Improvement:

Additional Comments:

Submit Feedback

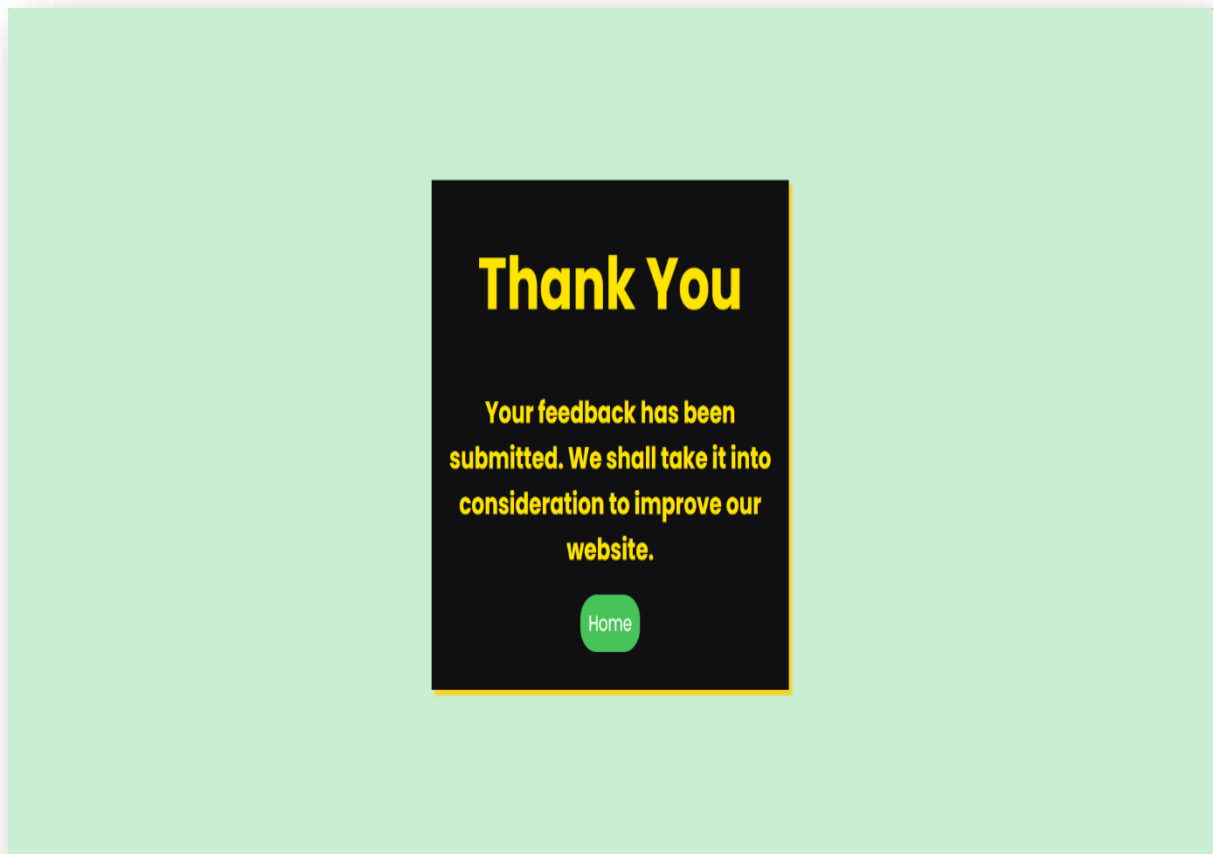


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➤ **Feedback Form of a System: -**






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➤ Payment Form of a System: -



CARD NUMBER

NAME ON CARD

EXPIRY MM EXPIRY YY CVV

MONTH YEAR



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➤ **Personal Information Form of a System: -**

Personal Information

NAME

GENDER

BIRTHDAY

EMAIL

PASSWORD

UPDATE

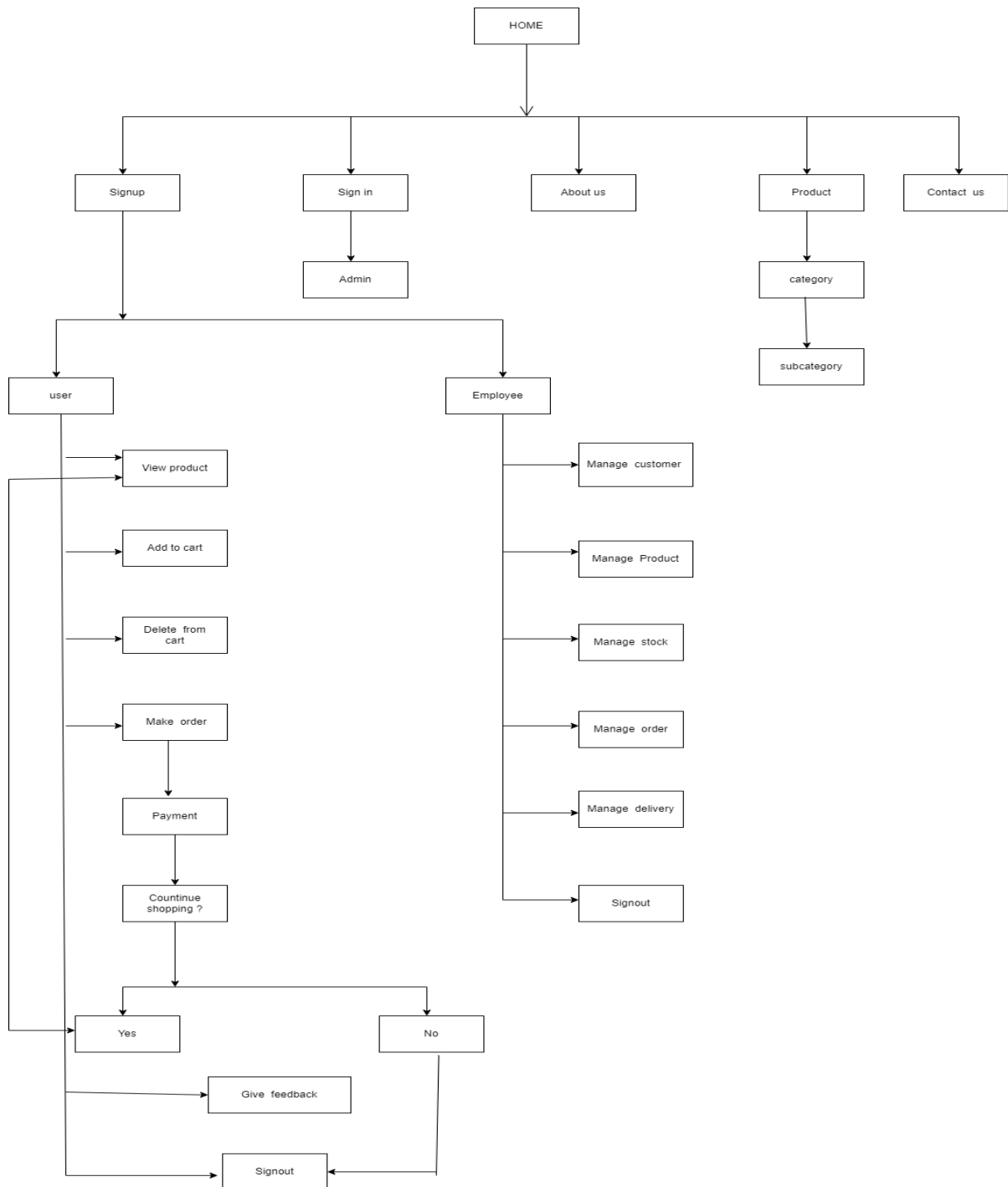


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■ System Navigation: -





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**Thanks
For
Watching**