

# **1. INTRODUCTION**

## **PROJECT DETAILS**

This project “**Multi Franchise Ecommerce Web-App**” provides a complete one platform solution for Network Marketing Leaders, Customers & Distributors to do business in a digitalized way and help to manage the entire records of data digitally secure , safe and effectively and make easy for customers to purchase products from home.

## **PURPOSE**

The main focus to develop this software is to providing all facilities like any ecommerce platform for user to purchase products online. This software includes maintaining month wise bills for each Distributors Separately.

## **SCOPE**

All Distributors maintain their customer bill records, providing their customers to facility of online purchasing/Tracking Order/Delivery/Payment Status like Amazon, Flip Kart.

## **OBJECTIVE**

The objective of this system is to provide is this software will help to save time of customer to save their time to purchase products from network marketing company offline and save time of distributors to maintain bill record of customer.

## **TECHNOLOGY AND LITERATURE REVIEW**

Frontend : HTML, CSS, JavaScript , Ajax , JQuery

Backend : PHP

Database: MySQL

Machine Learning - Python

## **2. PROJECT MANAGEMENT**

### **FEASIBILITY STUDY**

#### **Technical Feasibility**

After considering our project functionalities and technical needs we decided to go with the following technologies -

Frontend – Html, CSS, JavaScript, JQuery, Ajax

Backend – PHP

Database – MySQL

Machine Learning – Python

All the above-mentioned technologies are open sources therefore it is feasible to use with the knowledge of basics in each of them it would be easy for us to manage the project too. Also, all these technologies are very famous now a days and gives the best performance to any application. It gives the user-friendly environment to users of the application.

#### **Time Schedule Feasibility**

The planning for our project completion is as follows:

After declaration and information of the subject, we started thinking about the project title and frameworks. We finalized our topic and discussed it with respected faculty member. Initially we gathered & analyzed all the requirements by the beginning of January 2023.

We prepared the SRS document right after that. In mid of January 2023, we design the UI and some basic backend work. This was followed by the required diagrams. For coding and unit testing 4 to 6 weeks and for system and integration testing another 2 weeks were covered.

We are ready for its demonstration in the submission week along with the report. Being a 2 member's team, we were able to complete our project in the estimated time.

## **Operational Feasibility**

In the current scenario where the virtual world is the new normal, our project will excel greatly along the frequent users who want to avail services online.

We have kept the user interface of mobile interface pretty simple and handy so everyone can take advantage of it and use it without any inconvenience. Using the Php and Python, our website is operated very fast and with high performance. Due to its user-friendly look, users won't feel in inconvenience while using it even for the first time.

## **Implementation Feasibility**

The Functional requirements of our project will be easily fulfilled by the technologies we have mentioned.

All the technologies we are using are easily supported by all the browsers. All these technologies are well supported in the tool we used for coding (i.e., VScode). Hence, the implementation is feasible.

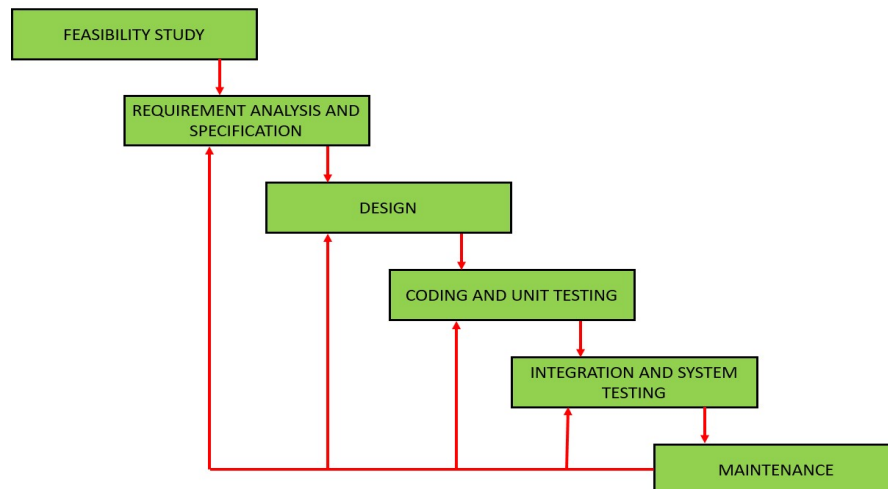
# PROJECT PLANNING

## Project Development Approach and Justification

The software development approach we used for our project: Iterative Waterfall Model

This includes the stages like:

1. Feasibility Study
2. Requirement Analysis
3. Design
4. Coding
5. Testing
6. Maintenance



We choose this model because it gives us the flexibility to get back to a stage when it needs some redo tasks.

Our entire approach was trial and error and learns as we need. By choosing the iterative waterfall we get the liberty of flexibility and the risk management can be done easily.

## Project Plan

Sr. No	Documents	Timeline
1	Thinking for Project Definition	Mid of December
2	Approval for the project title and framework	End of December
3	Implementation	January, February
4	Testing	Starting of March
5	Documentation	End of March

## Roles and Responsibility

Name	Analysis	Design	Coding	Testing	Documentation	Maintenance
Neel	✓	✓	✓	✓	✓	✓
Apar	✓	✓	✓	✓	✓	✓

### **3. SYSTEM STUDY REQUIREMENT**

#### **STUDY OF CURRENT SYSTEM**

During our study and analysis for our definition, we came across that there doesn't exist any system which will help to multiple distributors of Network Marketing Company and their users. So our target is to make platform where all distributors can come together in one platform like Amazon.

#### **USER CHARACTERISTICS**

1. Owner – Register New Distributors
2. Distributors – Keep Track Of Orders, Maintain bill's of Customer month wise.
3. Customer– View products, purchase products, Keep track of their products.

#### **HARDWARE AND SOFTWARE REQUIREMENTS**

For all the actors the basic software requirements are as follows

- Good Browser
- Good internet connection

For all the patients the basic hardware requirements are as follows

- Device to run this Web-app.

#### **CONSTRAINTS**

- As it is a web-based constantly needs internet
- Response time can vary depending on the browser and speed of internet connection.

## 4. SYSTEM ANALYSIS

### REQUIREMENTS OF NEW SYSTEM

#### Functional Requirements

##### 1) Manage Customer

###### Sign In

**Description:** Enter Customer id and password. If Customer record exists then show dashboard else go back to login page.

**Input:** Customer details

**Output:** Dashboard

##### 2) View Order History

**Description:** Customer can view his order history by login to his account.

**Prerequisite:** Customer must be logged in to application.

**Output:** Customer can see and take it print as well as track payment and order delivery status.

##### 3) Purchasing Products

**Description:** Customer can purchase products

**Input:** Enter Details

**Output:** Order Done

##### 4) Contact

**Description:** Customer can contact with any me

**Input:** Message to distributors

**Output:** Message sent

##### 5) Search for Distributors

**Description:** Select distributors unique id

**Input:** Search with city, find distributors unique id

**Output:** Got it



## Distributors Interface

### 1) Distributors Login

**Description:** Distributors should log in to his portal to do task. Doctor will require to log in every day due to security.

**Input:** ID and password

**Output:** Confirmation

### 2) Delete/Modify Products Details

**Description:** To change products' details (name, price)

**Input:** Updated products' details

**Output:** Update confirmation

### 3) Order Products Details

**Description:** To pack order and update delivery status

**Input:** Update payment, order delivery, gift status

**Output:** Users can track everything

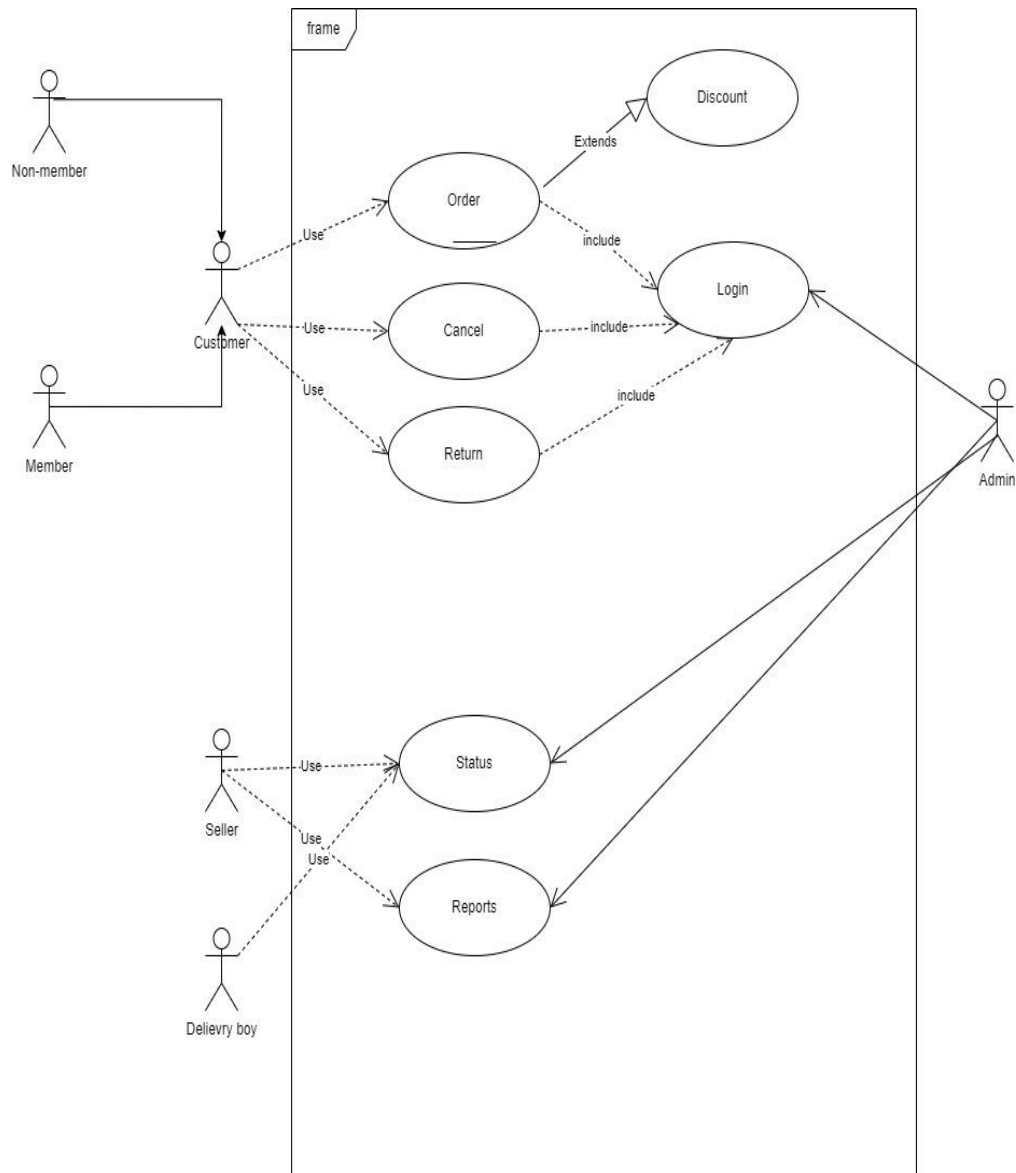
## Non-Functional Requirements

- These are the requirements that are not functional in nature.  
Especially these are the constraints the system must work within.

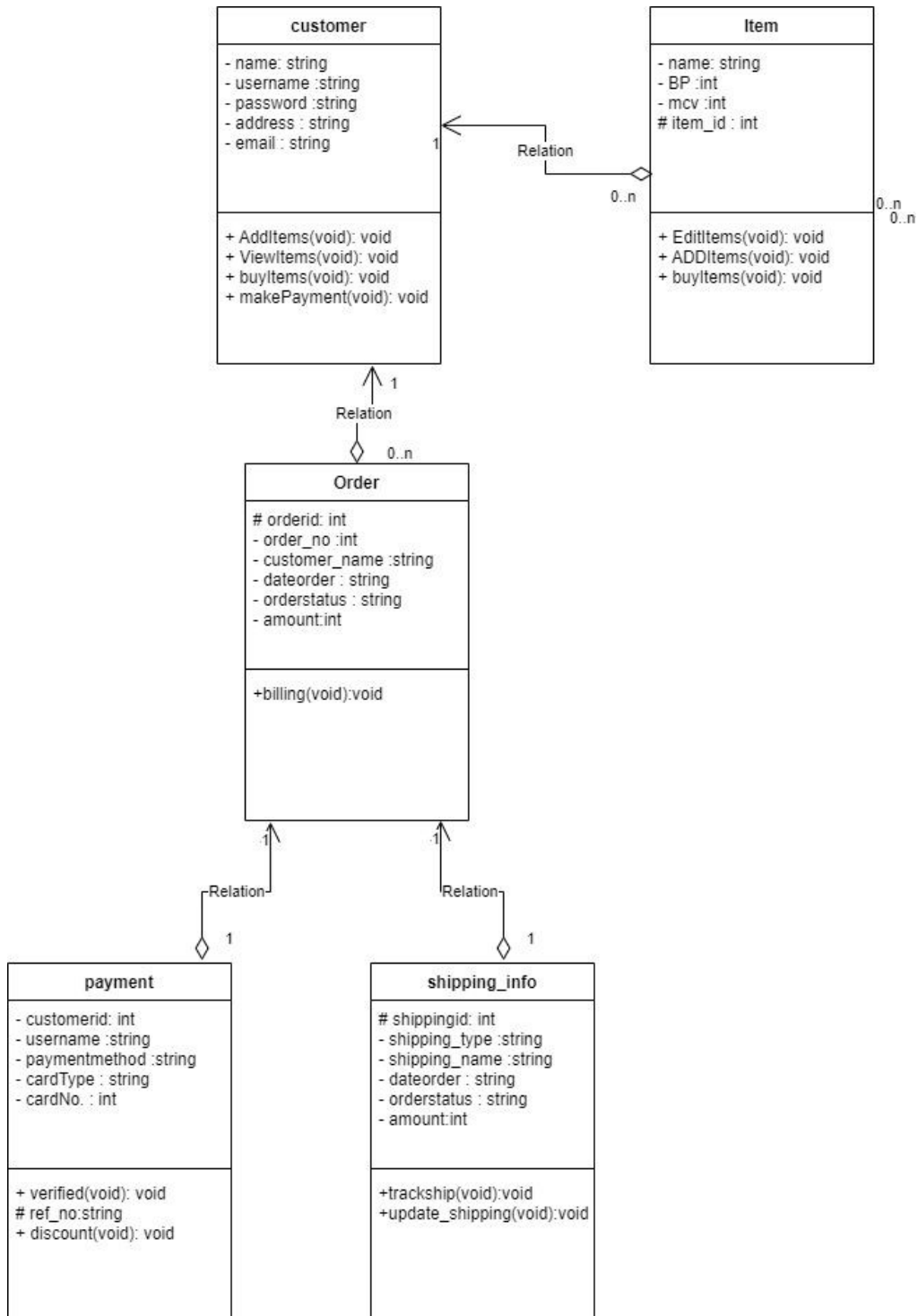
- 1) **Database:** To store records of products details, customer details along with their billing history and other related information. MySQL will be used to store all the data.
- 2) **Operating System:** The software will be designed to run in every System.  
For Distributors: **Windows/MacOS** is required.  
For Customers: **Windows/MacOS** is required.
- 3) **Development Tools:** For development of the software, **VSCode** IDE is required.  
For software testing, **Postman** is used.
- 4) **Safety Requirements:** If there is extensive damage to a wide portion of the database due to catastrophic failure, such as disk crash, the recovery method restores a past copy of the database that was backed up to archival storage and reconstructs a more concurrent state by reapplying or redoing the operations of committed transactions from the backed up log, up to time of failure.
- 5) **Security Requirements:** Security systems need database storage just like many other applications. However, the special requirements of the security market mean that vendors must choose their database partner carefully.

## 5. SYSTEM DESIGN

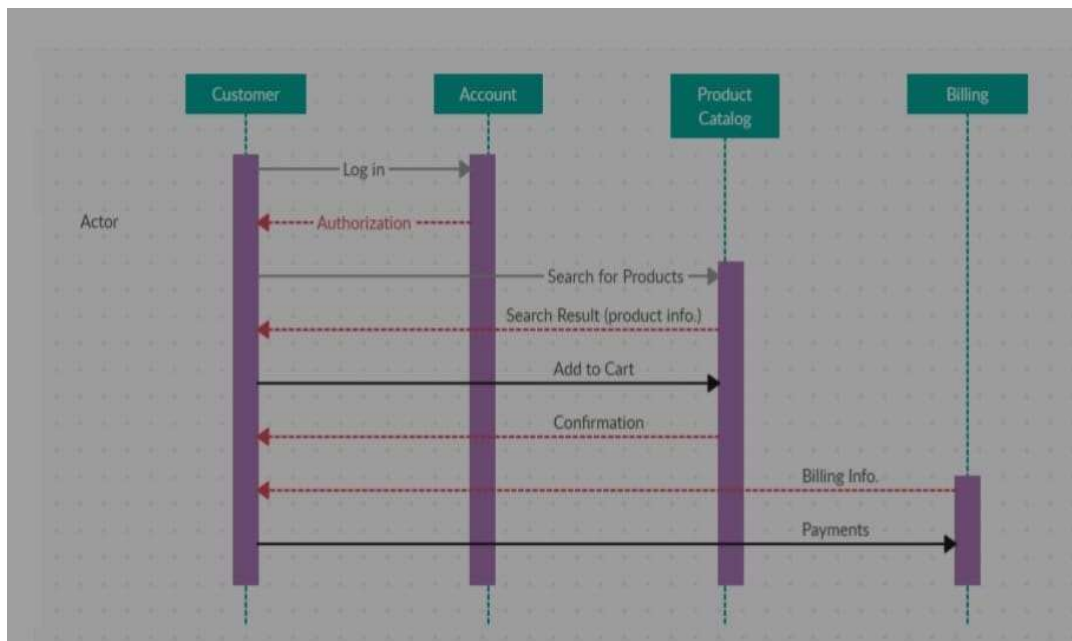
### USECASE DIAGRAM



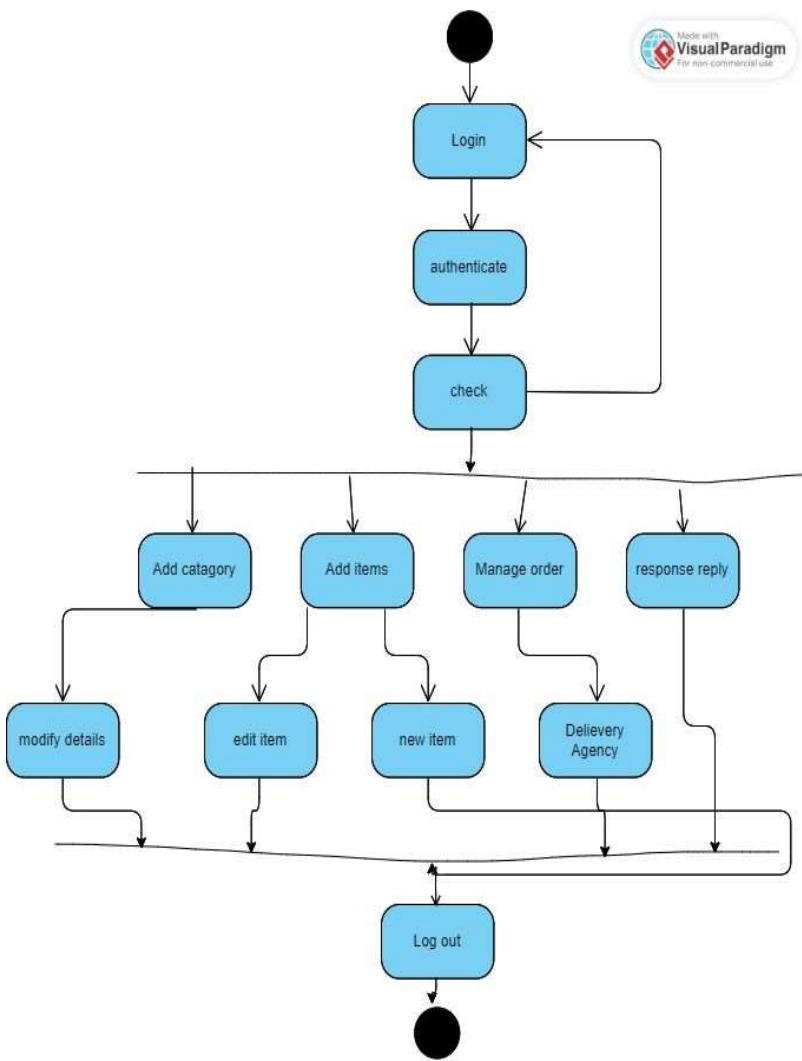
## CLASS DIAGRAM



## SEQUENCE DIAGRAM



Activity Diagram



## **2. IMPLEMENTATION PLANNING**

### **IMPLEMENTATION ENVIRONMENT:**

During the complete implementation we have worked on VS Code .VS Code is a free source-code GUI (Graphical User Interface) editor for Windows, Linux and macOS.

Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, compiling , deploying and embedded Git.

Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality. It also provides extension to work in a team with a multi user experience. It supports all the technologies we used for our project.

Also connection with database and backend through this platform is very easy to use.

### **PROGRAM / MODULES SPECIFICATION:**

- MYSQL Database
- VS Code
- OS: Windows, MacOS

### **3. TESTING**

#### **TESTING PLAN**

The method of testing used in this project is White Box testing as in White Box testing; the tester has the complete knowledge and understanding of the code.

#### **TESTING STRATEGY**

The development process repeats this testing sub-process a number of times for the following phases.

- a) Unit Testing.
- b) Integration Testing

Unit Testing tests a unit of code (module or program) after coding of that unit is completed. Integration Testing tests whether the various programs that make up a system, interface with each other as desired, fit together and whether the interfaces between the programs are correct.

#### **TESTING METHOD**

There are two kinds of testing mainly Black box and White box testing:

- In black-box testing a software item is viewed as a black box, without knowledge of its internal structure or behavior. Possible input conditions based on the specifications (and possible sequences of input conditions) are presented as testcases.
- In white-box testing, knowledge of internal structure and logic is explored. Testcases are presented such that possible paths of control flow through the software item are traced. Hence more defects than black-box testing are likely to be found.



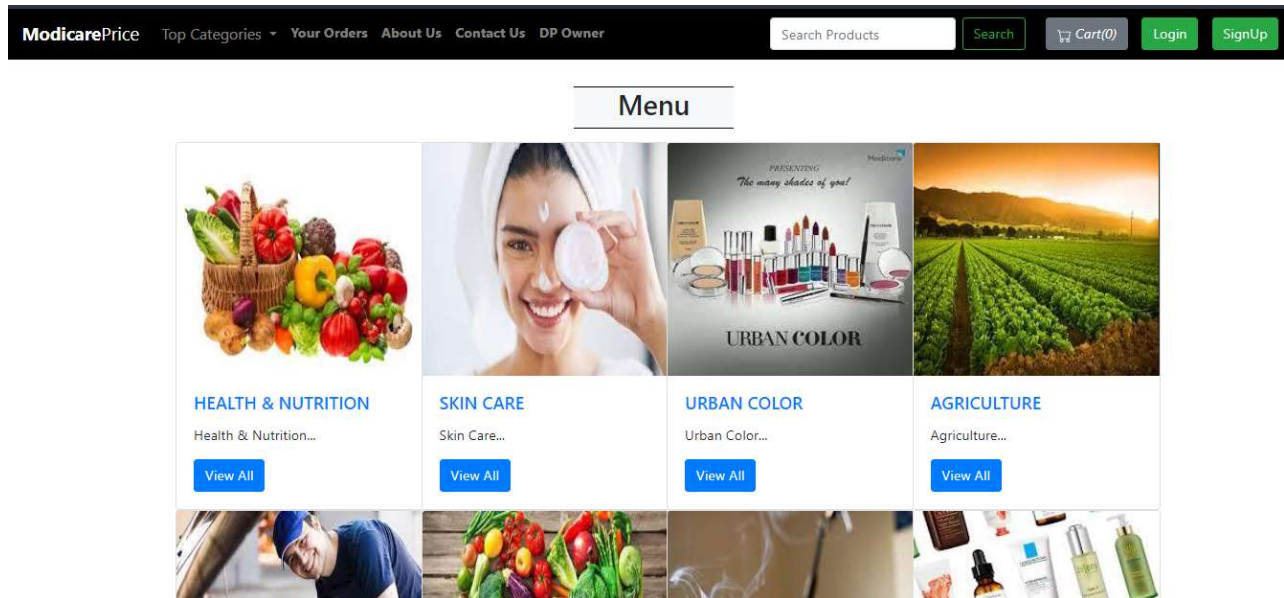
## TEST CASES

ENTITY	TEST CASE	EXPECTED OUTPUT	ACTUAL OUTPUT	STATUS
Register new Customer	Validation	Successfully register and redirect to login page	Successfully register and redirected to login page	Pass
Log in	Validation	Successfully logged in and home page	Successfully logged in and redirected to home page	Pass
Order Tracking. Payment Status	Update Track Details	All new information is saved into the database & update in web-app	All new information is saved in the database to the respective users and display.	Pass
Purchase Product	Select Products and add details	Successfully bills generate & make orders.	Successfully Bill generates & Successfully receives at owners end.	Pass
Month Wise Report with payment and order details of users	Select Different Month	Display records according month wise with zero tolerance	Successfully with 100% accuracy.	Pass
Update profile Of Users & Distributors Update/Add/Delete Products	New details	All the changes should be saved in database	Received one successful message	Pass

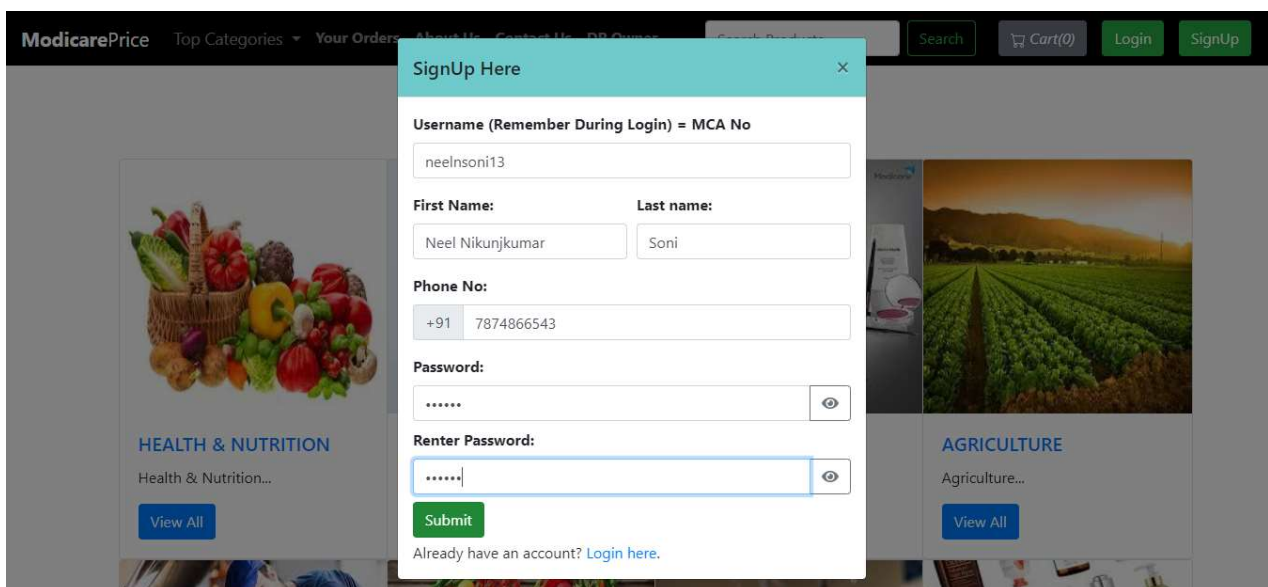
# SCREENSHOTS

## Web Application:

- Home Page



- User Signup/Login Page



## • Search For Products

Search Result for "Soap" :

Items:

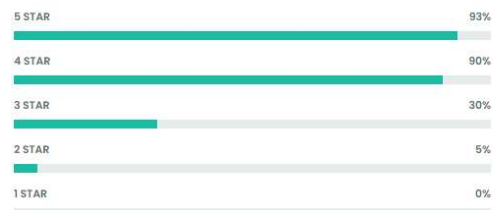
 <p><b>Baby Spa Nourishing ...</b>  <b>Rs. 63/-</b>          Baby Spa Nourishing Soap Cod...  <input type="button" value="Add to Cart"/> <input type="button" value="Quick View"/></p>	 <p><b>Sofwash Glycerin &amp; ...</b>  <b>Rs. 155/-</b>          Code: PC4003 Shade Name: So...  <input type="button" value="Add to Cart"/> <input type="button" value="Quick View"/></p>	 <p><b>Sofwash Anti-Bacteri...</b>  <b>Rs. 49/-</b>          Code: PC4014 Shade Name: ...  <input type="button" value="Add to Cart"/> <input type="button" value="Quick View"/></p>	 <p><b>Sofwash Aloe Vera, N...</b>  <b>Rs. 33/-</b>          Code: PC4010 DP: 33.00 ...  <input type="button" value="Add to Cart"/> <input type="button" value="Quick View"/></p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## • About Page

### ABOUT US

Welcome to ,  
Multi Franchise System

Rating:



 **1000+**  
Happy Customers

 **600 +**  
Items

 **24 \* 7**  
Hours of Support

 **4**  
Team Members

## • Add To Cart ( With Recommends Product )

Take Bill

Bill

Full Name = Neel Soni  
MCA No = neelnsoni13  
Mobile No = 7894561230

X

Bill Not Reached Till **Loyalty**

No.	Item Name	DP Price	BV	PV	Quantity	Total Price	Remove All
1	Schloka Gold Facial Kit	225	135	5	<input type="text" value="1"/>	225	Remove

Machine Learning Recommended Product

No.	Item Name	MRP Price	Add
1	schloka gold facial kit	225	Add
2	schloka moroccan argan oil facial kit	225	Add

ORDER SUMMARY

Total Price	Rs. 225
Total BV	135
Total PV	5
Shipping	Rs. 0
<b>The total amount of (including Tax &amp; Charge)</b>	<b>Rs. 225</b>

☒ Cash On Delivery  
☐ Online Payment

go to checkout

## • Bill Page

Code Faster with AI...

ModicarePrice

Info! online payment are currently disabled so please choose cash on delivery.

Take Bill

Bill

Full Name = Neel Soni  
MCA No = neelnsoni13  
Mobile No = 7894561230

X

Bill Not Reached Till **Loyalty**

No.	Item Name	DP Price	BV	PV	Quantity	Total Price	Remove All
1	Schloka Gold Facial Kit	225	135	5	<input type="text" value="1"/>	225	Remove

Machine Learning Recommended Product

No.	Item Name	MRP Price	Add
1	schloka gold facial kit	225	Add
2	schloka moroccan argan oil facial kit	225	Add

ORDER SUMMARY

Total Price	Rs. 225
Total BV	135
Total PV	5
Shipping	Rs. 0
<b>The total amount of (including Tax &amp; Charge)</b>	<b>Rs. 225</b>

☒ Cash On Delivery  
☐ Online Payment

go to checkout

Print

1 sheet of paper

Destination

Microsoft Print to PD

Pages

All

Color

Color

More settings

Print

Cancel

## • All Distributors

<div> ModicarePrice Home Top Categories Your Orders About Us Contact Us </div> <div> <input type="text" value="Search Products"/> <input type="button" value="Search"/> </div> <div> Cart(2) Welcome neelns13 </div>										
<div> DP Owner <input type="button" value="Refresh List"/> <input type="button" value="Print"/> </div>										
<div> Show 10 entries <input type="text" value="Search:"/> </div>										
No.	DP Code	MCA	Name	Email	Address	Phone No	Availability			
1	bayad123	87389300	Dr Dimple Nikunj Kumar Soni	nikunjsoni13@gmail.com	59.SHREEJICHARAN SOCIETY,OPP RELIANCE PETROL PUMP / BAYAD / ARAVALLI / GUJARAT	9427080543	7 Days = 7 Am to 10 Pm & Sunday =10 Am to 2 Pm			
2	rajkot123	87389301	Purvi Popat	purvi@gmail.com	Rajkot Raiya Road	7060504030	7 Days = 7 Am to 10 Pm & Sunday =10 Am to 2 Pm			
Showing 1 to 2 of 2 entries						Previous	1	Next		

## • Order Details

Order Details

Print

Refresh List

No.	Bill Name	MCA No	Amount	Order Date	PayStatus	GiftStatus	Delievery Status	Items	Order Id	Code	Address
1	Soni Neel Nikunj Kumar	78945612	3293	2023-03-15 22:17:11	<div></div>	<div></div>	<div></div>	<div></div>	144	bayad123	Aravalli, ...
2	Soni Kalp Niikunj Kumar	78451236	6406	2023-03-15 22:32:02	<div></div>	<div></div>	<div></div>	<div></div>	145	bayad123	Aravalli, ...
3	Soni Neel Nikunkumar	87389300	284	2023-03-16 16:40:24	<div></div>	<div></div>	<div></div>	<div></div>	146	bayad123	bayad, ...

- **Payment Status (User)**

ModicarePrice

Top Categories

Your Orders

About Us

Contact Us

DP Owner

Search Products

Search

Cart(2)

Welcome neelnsoni13

Order Details

No.

Bill Name

1

Soni Neel Nikunj Kumar

7

2

Soni Kalp Nikunj Kumar

7

3

Soni Neel Nikunj Kumar

8

Order ID

Code

Address

144

bayad123

Aravalli, ...

145

bayad123

Aravalli, ...

146

bayad123

bayad, ...

Payment Status

Pls Paid Your Remaining Money As Soon As possible => **2293**

Order ID: #144

Total

Paid

Status:

Tracking #:

3293

1000

Online

32

Help >

- **Tracking Order Status (User)**

ModicarePrice

Top Categories

Your Orders

About Us

Contact Us

DP Owner

Search Products

Search

Cart(2)

Welcome neelnsoni13

Order Details

No.

Bill Name

1

Soni Neel Nikunj Kumar

7

2

Soni Kalp Nikunj Kumar

7

3

Soni Neel Nikunj Kumar

8

Order ID

Code

Address

144

bayad123

Aravalli, ...

145

bayad123

Aravalli, ...

146

bayad123

bayad, ...

Order Status

Order ID: #146

Estimated Delivery time:

Shipping By:

Status:

Tracking #:

2 Hour

Maganbhai | 7845129630

Preparing your Order.

37

Order Placed

Order Confirmed

Preparing your Order

On the way

Order Delivered

Help &gt;

- Profile Page

ModicarePrice

Top Categories ▾

Your Orders

About Us

Contact Us


DP Owner

Search Products

Search

Cart(2)

Welcome neelInsoni13 ▾



Remove Image: [remove](#)

Change Image: [choose](#) [Update](#)

@neelInsoni13

Neel Soni (User)

[Logout](#)

Profile (User)

Username:

neelInsoni13

First Name:

Neel

Last Name:

Soni

Email:

Enter Your Email

Phone No:

+91 7894561230

Password:

Enter Password [👁](#)

[Update](#)

[Close](#)

## DISTRIBUTORS (SECTION)

- **Admin Login**


Admin(MCA No)

87389300

Password

.....

Login



Modicare  
Sapno ki azadi

- **Month Wise Order Details**

**Order Details**

 [Refresh List](#)
 [Print](#)

Show 10 entries

Search:

Serial No	Leader Name	Bill Name	MCA	Amount	Remain	Delivery	Items	Loyalty	Order Date	User Id	Order Id	Code	Phone No	Add
1	Neel	Soni Neel Nikunj Kumar	78945612	3293	2293				2023-03-15 22:17:11	65	144	bayad123	7894561230	Arav ..
2	Neel	Soni Kalp Nikunj Kumar	78451236	6406	0				2023-03-15 22:32:02	65	145	bayad123	7894561320	Arav ..
3	Neel	Soni Neel Nikun Kumar	87389300	284	84				2023-03-16 16:40:24	65	146	bayad123	7894561230	bay ..
<b>Total Billing</b>		<b>Total Payment Remaining</b>												
9983		2377												

March 2023

2023	Jan	Feb	Mar	Apr
	May	Jun	Jul	Aug
	Sep	Oct	Nov	Dec

[Clear](#)      [This month](#)



- Update Products Details ( Distributors )

Create New Item

Name:

Description:




DP Price

BV

PV

Category:

None

Cat. Id	Img	Item Detail	Action
22		Name : <b>Well Amla</b> Description : <b>Code: HL2025 Shade Name: DP: 205.00 BV: 122.00 PV: 4.56 Weight(gm): 55.00</b> DP Price : <b>205</b> BV : <b>122</b> PV : <b>4.56</b>	<div>Edit</div> <div>Delete</div>
22		Name : <b>Well Turmeric</b> Description : <b>Code: HL2053 Shade Name: DP: 925.00 BV: 555.00 PV: 20.56 Weight(gm): 55.00</b> DP Price : <b>925</b> BV : <b>555</b> PV : <b>20.56</b>	<div>Edit</div> <div>Delete</div>
22		Name : <b>Well Brahmi</b>	<div>Edit</div>

- User Query Handling ( Distributors )

HISTORY

Id	UserId	Email	Phone No	Order Id	Message	datetime	Reply
28	65	neelnsoni13@gmail.com	7894561230	0	I like Your Platform	2023-03-15 22:17:38	<div>Reply</div>
29	65	neelnsoni13@gmail.com	7894561230	0	I like your platform	2023-03-15 22:33:08	<div>Reply</div>
30	65	neelnsoni13@gmail.com	7894561230	0	can you help me ?	2023-03-16 16:42:56	<div>Reply</div>

## **4. LIMITATIONS AND FUTURE ENHANCEMENTS**

### **LIMITATIONS:**

- We have not added Products API from Direct Network Marketing Company. This means Distributors need to manually enter the products into the list.
- The Internet must be on the whole time while using the web application.
- Online Payment Currently Not Available.

### **FUTURE ENHANCEMENTS:**

- Improving more faster response of speed in Recommendation product which is implemented using Machine Learning.
- Improving the efficiency of the website.
- Keep on changing the UI-Design to make the website look more attractive.
- Implementing the dark mode feature for the users who are interested to show our website in dark mode.
- Providing Online Payment Features.

## **5. CONCLUSION AND DISCUSSION**

### **CONCLUSION**

We provide platform for Users of Network Marketing Company and their distributors.

We have tried to keep the UI alluring and easy enough for our users to feel comfortable. We made our web site user friendly so that even for the users who are using it for the first-time won't get any inconvenience.

Our system had tried to make this platform easy for Distributors to maintain Month wise Records of Users Bill Record, Payment Records & Users to Purchase Various Products online.

### **DISCUSSION**

#### **Self-Analysis of Project Viabilities:**

In our opinion, this project has served the goal that we set when we started.

It provides a platform for the All Distributors over all over world in one platform for Network Marketing Company and users to purchase Products online from home.

We provided all the functionalities which we provided in our SRS. We provided an interactive platform to the users to make their life better.

#### **Problems encountered**

There were few challenging problems encountered during this project: -

1. Problem to maintain database and to fetch data with complex queries.
2. Learning python from scratch & implementing machine learning model for recommendation products purchase by users shown to user on add to cart page.
3. For making UI interactive and fully Responsive.
4. Provide High Secure authentication and Generating month wise report for each Distributors in backend and database part.

**Summary of Project Work:**

We have completed our project work using software engineering and system analysis and design approach.

We have done our work with planned scheduling pertaining to time constraints and result oriented progress in project development.

We have been given an industrial exposure which is very beneficial for our field.

We learned lots of new things and time management.

Overall, we achieved our target and goal which we decided in requirement specifications.

## 11. BIBLIOGRAPHY

<b>W3School</b>	<a href="https://www.w3schools.com/"><u>https://www.w3schools.com/</u></a>
<b>PHP</b>	<a href="https://www.php.net/"><u>https://www.php.net/</u></a>
<b>Java-Script</b>	<a href="https://www.javascript.com/"><u>https://www.javascript.com/</u></a>
<b>Stack-Overflow</b>	<a href="https://stackoverflow.com/"><u>https://stackoverflow.com/</u></a>
<b>Tensor-Flow</b>	<a href="https://www.tensorflow.org/?gad=1"><u>https://www.tensorflow.org/?gad=1</u></a>
<b>Python</b>	<a href="https://www.python.org/"><u>https://www.python.org/</u></a>