

**A
Project Report
On
"STOCK MANAGEMENT SYSTEM"**

**Prepared by
DHRUV PRAJAPATI(20DCS096)
DHRUV RANGRAS(20DCS100)
DARSH SHAH(20DCS107)**

**Under the guidance of
Prof. NAINA PARMAR**

**A Report Submitted to
CharotarUniversity of Science and Technology
for Partial Fulfillment of the Requirements for the
4thSemester Software Group Project-II (CE255)**

Submitted at



**CSE
DEPSTAR
At: Changa, Anand – 388421
APRIL 2022**



CERTIFICATE

This is to certify that the report entitled “**STOCK MANAGEMENT SYSTEM**” is a bonafide work carried out by **DARSH SHAH (20DCS107)** under the guidance and supervision of **Prof. Naina Parmar** for the subject **CE255 Software Group Project-II (CSE)** of 4th Semester of Bachelor of Technology in **DEPSTAR** at Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

Prof. Naina Parmar
Computer Science and Engineering
DEPSTAR, Changa, Gujarat.

Prof. Parth Goel
Head of Department – Computer
Science & Engineering, DEPSTAR
CHARUSAT, Changa, Gujarat.

Dr. Amit Ganatra
Principal, DEPSTAR
Dean, FTE
CHARUSAT, Changa, Gujarat.

Devang Patel Institute of Advance Technology And Research At: **Changa, Ta. Petlad, Dist. Anand,**
PIN: 388 421. Gujarat



CERTIFICATE

This is to certify that the report entitled “**STOCK MANAGEMENT SYSTEM**” is a bonafide work carried out by **DHRUV PRAJAPATI (20DCS096)** under the guidance and supervision of **Prof. Naina Parmar** for the subject **CE255 Software Group Project-II (CSE)** of 4th Semester of Bachelor of Technology in **DEPSTAR** at Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

Prof. Naina Parmar
Computer Science and Engineering
DEPSTAR, Changa, Gujarat.

Prof. Parth Goel
Head of Department – Computer
Science & Engineering, DEPSTAR
CHARUSAT, Changa, Gujarat.

Dr. Amit Ganatra
Principal, DEPSTAR
Dean, FTE
CHARUSAT, Changa, Gujarat.

Devang Patel Institute of Advance Technology And Research At: **Changa, Ta. Petlad, Dist. Anand,**
PIN: 388 421. Gujarat



CERTIFICATE

This is to certify that the report entitled “**STOCK MANAGEMENT SYSTEM**” is a bonafide work carried out by **DHRUV RANGRAS (20DCS100)** under the guidance and supervision of **Prof. Naina Parmar** for the subject CE255 **Software Group Project-II (CSE)** of 4th Semester of Bachelor of Technology in **DEPSTAR** at Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

Prof. Naina Parmar
Computer Science and Engineering
DEPSTAR, Changa, Gujarat.

Prof. Parth Goel
Head of Department – Computer
Science & Engineering, DEPSTAR
CHARUSAT, Changa, Gujarat.

Dr. Amit Ganatra
Principal, DEPSTAR
Dean, FTE
CHARUSAT, Changa, Gujarat.

Devang Patel Institute of Advance Technology And Research At: Changa, Ta. Petlad, Dist. Anand,
PIN: 388 421. Gujarat

DECLARATION BY THE CANDIDATE

I hereby declare that the project report entitled “Stock Management System” submitted by me to Devang Patel Institute of Advance Technology and Research, Changa in partial fulfilment of the requirement for the award of the degree of B.Tech in Computer Science Engineering, from DEPSTAR – CSE, is a record of bonafide for 4th semester CE255 - Software Group Project-II (project work) carried out by me under the guidance of Assistant Prof. Naina Parmar. I further declare that the work carried out and documented in this project report has not been submitted anywhere else either in part or in full and it is the original work, for the award of any other degree or diploma in this institute or any other institute or university.

Dhruv Prajapati (20DCS096)

Dhruv Rangras (20DCS100)

Darsh Shah (20DCS107)

Prof. Naina Parmar

CSE - DEPSTAR

CHARISAT, Changa, Gujarat

Abstract

Our application is based on STOCK management for different fields. In this app, users can be added, different categories for products can be added, various products can be added, customers can be added, and also details for same can be acquired by this app. Many other functionalities are also included in the app. Here, user firstly login in the app through their login credentials which is verified by the database and then further functionalities gets open for user. Then after user can get product details, customer detail, categories for varying products details, and many more. The main motto of developing such app was to solve local shopkeepers problem who store or note details of their products, customers in paper which is not much reliable. The question of reliability arises because documents/papers can get lost or teared up due to some unpredictable conditions and this makes shopkeeper anxious. So to solve this problem, our app is developed. This app can also be used in various fields depending upon their needs and usabilities.

Acknowledgement

We, as the developer of the '**STOCK MANAGEMENT SYSTEM**', with immense pleasure would like to present this Software Group Project assignment. Throughout the development cycle of this project has given us the wide opportunities to think and work with various phases of project as well as management skills and emerging technologies too.

We, express the gratitude towards our Head of CSE Department Mr. Parth Goel and project guides Prof. Naina Parmar . And only because of them we prompted to hard work and adopting the new technologies in current era.

Also thankful to all of us who have made this project development memorable and accomplish with full of joy and curiosity to learn new technologies and gain the team work experience.

We sincerely thankful all people who has given them valuable time, full support and favourable environment to accomplish this project.

Thanks,

Declaration by the Candidate.....	5
Abstract.....	6
Acknowledgement.....	7
Table of contents.....	8
List of figures.....	10
Chapter 1: Introduction.....	11
1.1 Project Overview.....	11
1.2 Objective	11
1.3 Scope	11
1.4 Tools and Technologies	12
1.5 Major functionality.....	12
Chapter 2: Project Management.....	13
2.1 Project Planning	13
2.2 Gantt Chart.....	14
Chapter 3: System Requirements Study	15
Hardware and software requirements	15
Chapter 4: SystemAnalysis.....	16
4.1 Requirements of proposed system	16
4.2 System Diagrams	17
4.3 System Architecture	18
Chapter 5: SystemDesign.....	19
Screen Layout.....	19
Chapter 6: Advantages.....	25

Chapter 7: Limitations	26
Chapter 8: Future Enhancements	27
Chapter 9: Conclusion	28
Chapter 10: References	29

List of Figures

PAGE NUMBER

2.2 Gantt chart.....	14
Fig 5.1 Loading Page.....	19
Fig 5.2 Login Page.....	19
Fig 5.3 Registration Page.....	20
Fig 5.4 Admin Page.....	20
Fig 5.5 User Page.....	21
Fig 5.6 Category Page.....	21
Fig 5.7 Product Page.....	22
Fig 5.8 Customer Page.....	22
Fig 5.9 Order Page.....	23
Fig 5.10 Billing System.....	24

Chapter1: Project Definition

1.1 Overview

Basically we have created an app named "STOCK management system" on the basis of java and database system. The aim behind the app is to make shopkeepers work easier and smoother. This app helps shopkeepers to keep the note of their STOCKs and manage them. Almost null requirements makes it easier for user to use. The back hand of this app is based on java and database is also used in there. On the point of security, the process of login credentials is also kept in the app. The further details are shown in the next slides.

Existing System

- In today scenario, Most shopkeepers or owner of company manage by writing it down in a book or by memorizing it.
- But what about in case of lose of that book or forgot that thing??
- In this case there is a chance to Loss in business.

Proposed System

We proposes a digital system for STOCK management.

The system have a verification process for security (user-id and password system).

It has following functions –

1. Users- to manage users of this application
2. Category- to manage category of products in the shop
3. Stock- to manage price, available pieces of product of different category
4. Order- to manage orders
5. Customer-to store details of customer
6. Billing system

1.2 Objective

- Is that Common problem for any small shop to big company owner to manage their stock ?
- Is it right that if you not manage your stock in right way then it become a cause of lose in business ?
- Also some time it is hard to remember price of particular product.
- Also some time it is hard to remember price of particular product.

1.3 Scope

- It can use at any shops,factory,hotels,supermarket,etc..

1.4 Tools and technologies

- Mainly we are going to use java for this project. And Mysql for data base management system .So we need one connector 'JDBC connector' to connect java and database.
- we need one ide to easy build java program.
- we are going to use Swing fram work of java to make frount end of application

1.5 Major Functionalities

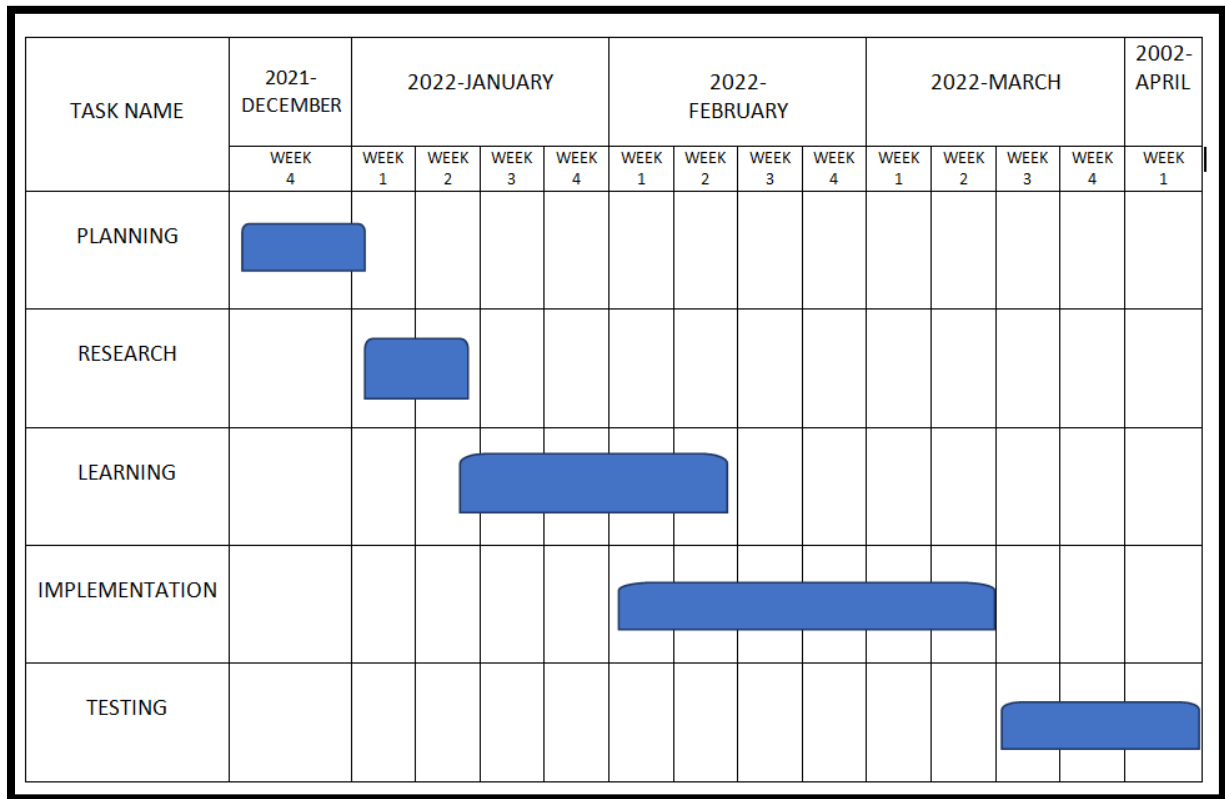
- **Users**
 1. Password
 2. Add new user
 3. Delete user
 4. Edit user details
- **Category Management**
 1. Add new category
 2. Check/manage available Product of category
- **Product Management**
 1. Add new product
 2. Check/manage available Product
 3. Set price of a product.
- **Customer Management**
 1. Add new customer
 2. Check customer details
 3. Differentiate old customer with new customer.
- **Order Management:**
 1. Edit a order
 2. Check order details
 3. Differentiate
 4. best orders

Chapter 2:Project management

2.1 Project Planing

- The first stage of our Project management is of learning .We are going to take reference from google and youtube. Firt we learn about java swing fram work and its functions to make one amazing fram work of application.Than after we learn about Mysql and its functions to manage database .
- After learning we Start implementing are project. We are planning to work paralaly on database as well as on GUI making
- Than we connect both of this.
- Than we start testing our application

2.2 Gantt Chart



Chapter 3: System Requirements Study

- Hardware/software requirement
 - We need windows oprationg system
 - java 16
 - Mysql workbench

Chapter 4: System Analysis

4.1 Requirements of proposed system:

- In today scenario, Most shopkeepers or owner of company manage their stock by writing it down in a book or by memorizing it
- But what about in case of lose of that book or forgot that thing??
- In this case there is a chance to Loss in business.

4.2 System Flow Chart

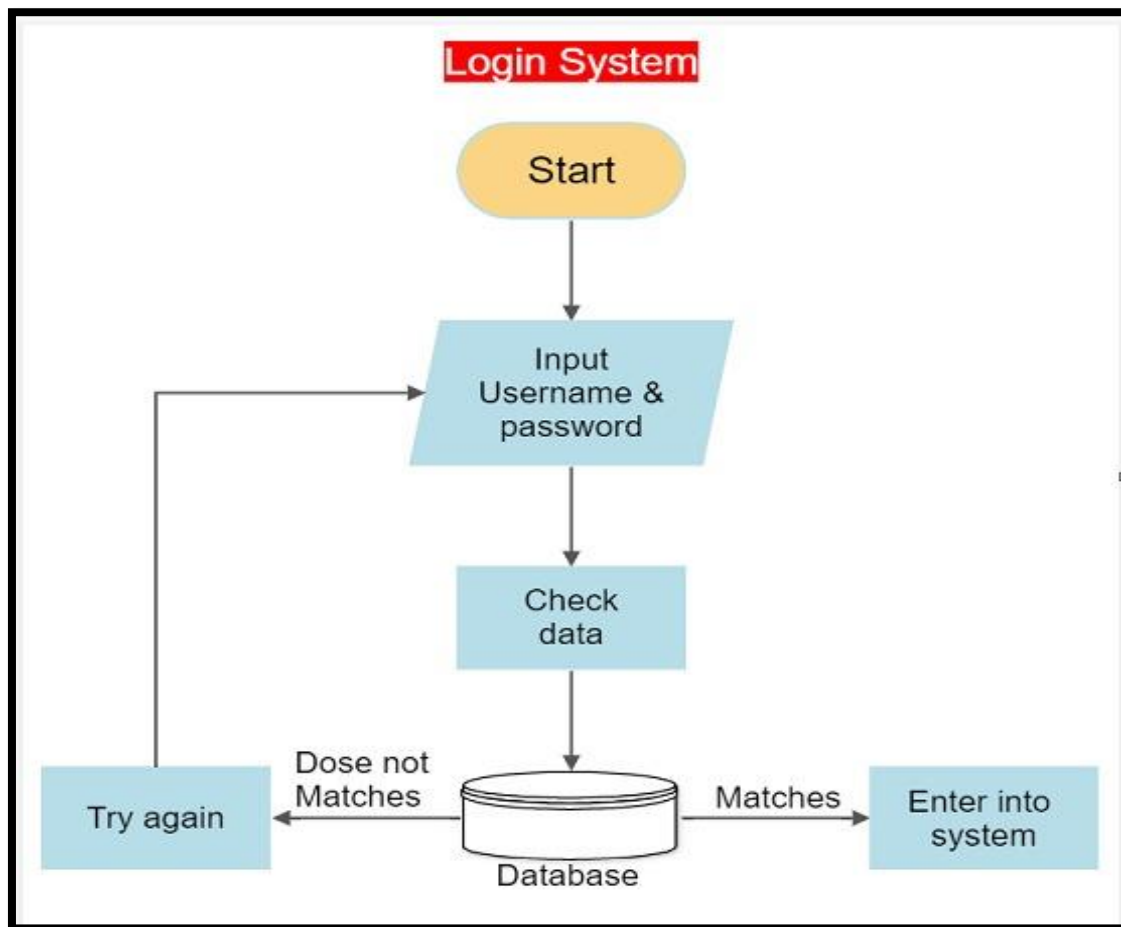


Fig 4.1 Login System

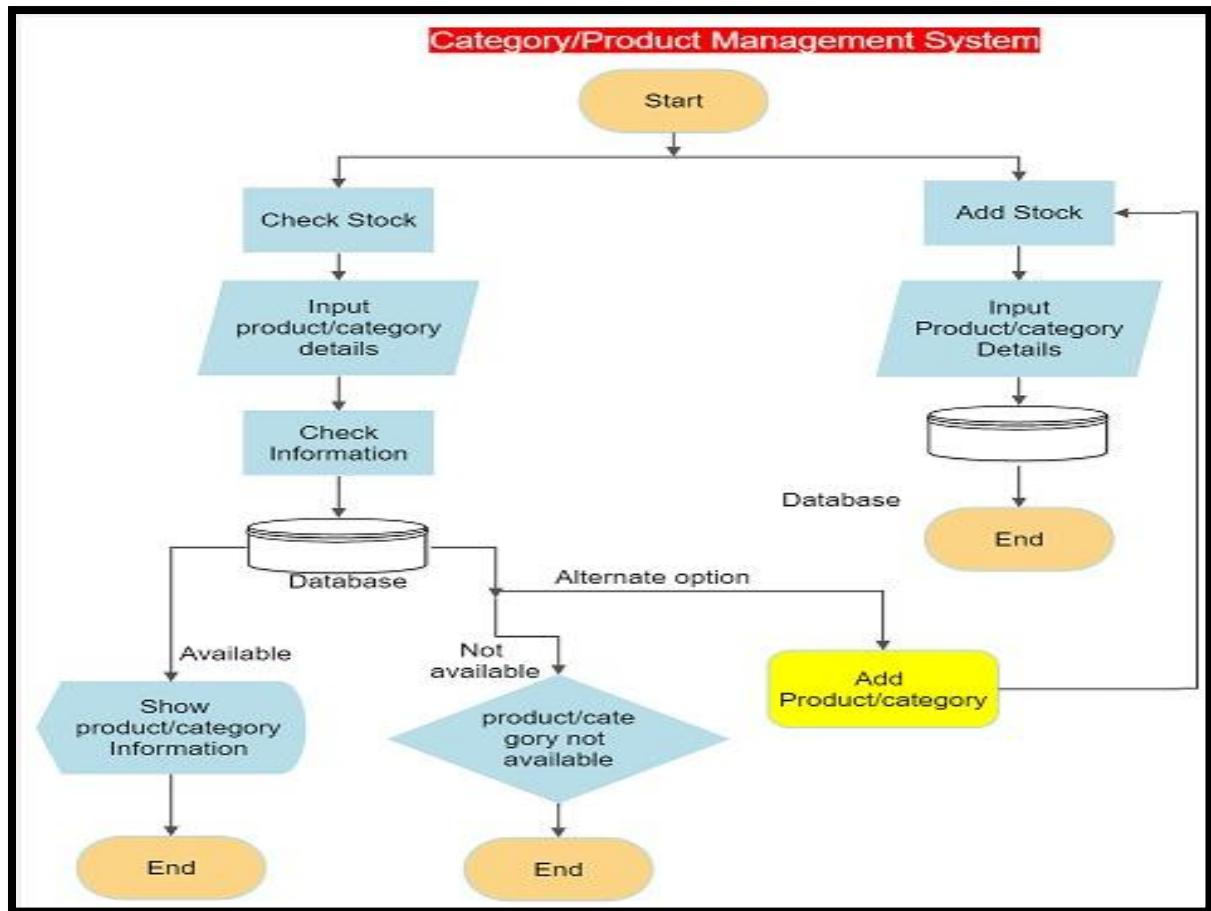


Fig 4.2 Category/Product management system

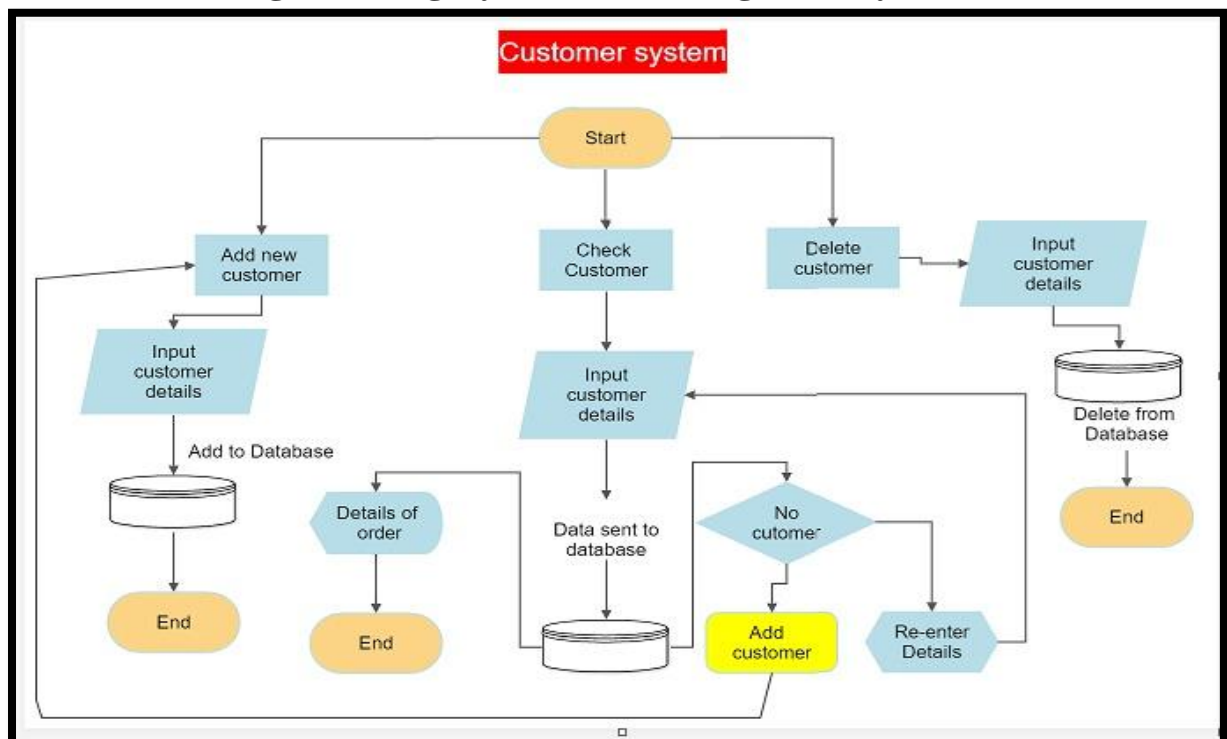


Fig 4.3 Customer System

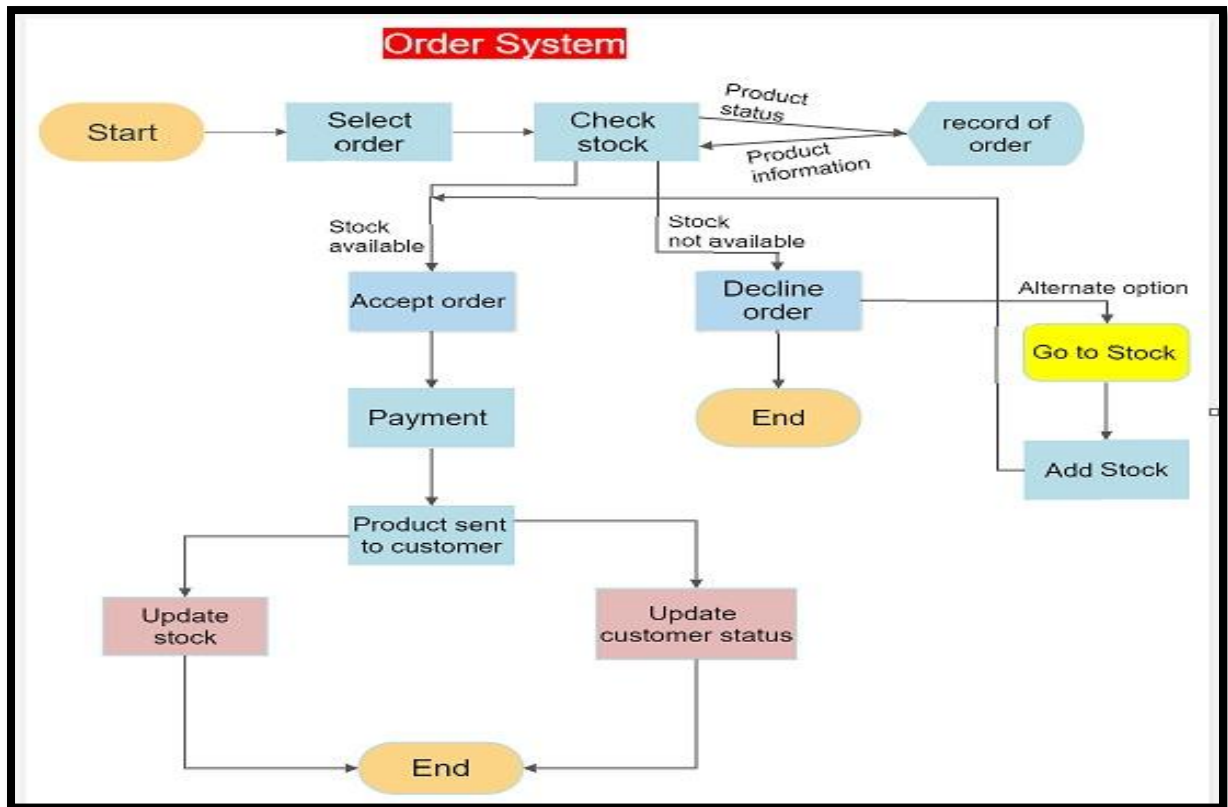
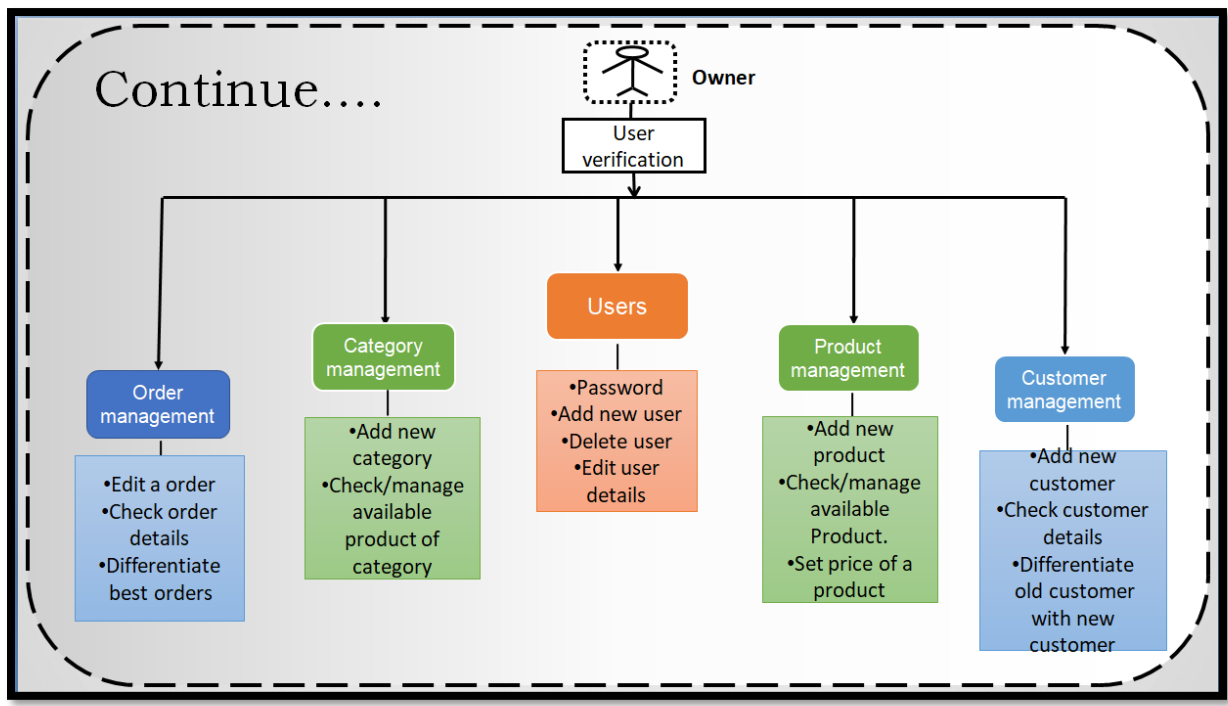


Fig 4.4 Order System

4.3 System architecture



Chapter5:System Design

5.1 System Layout

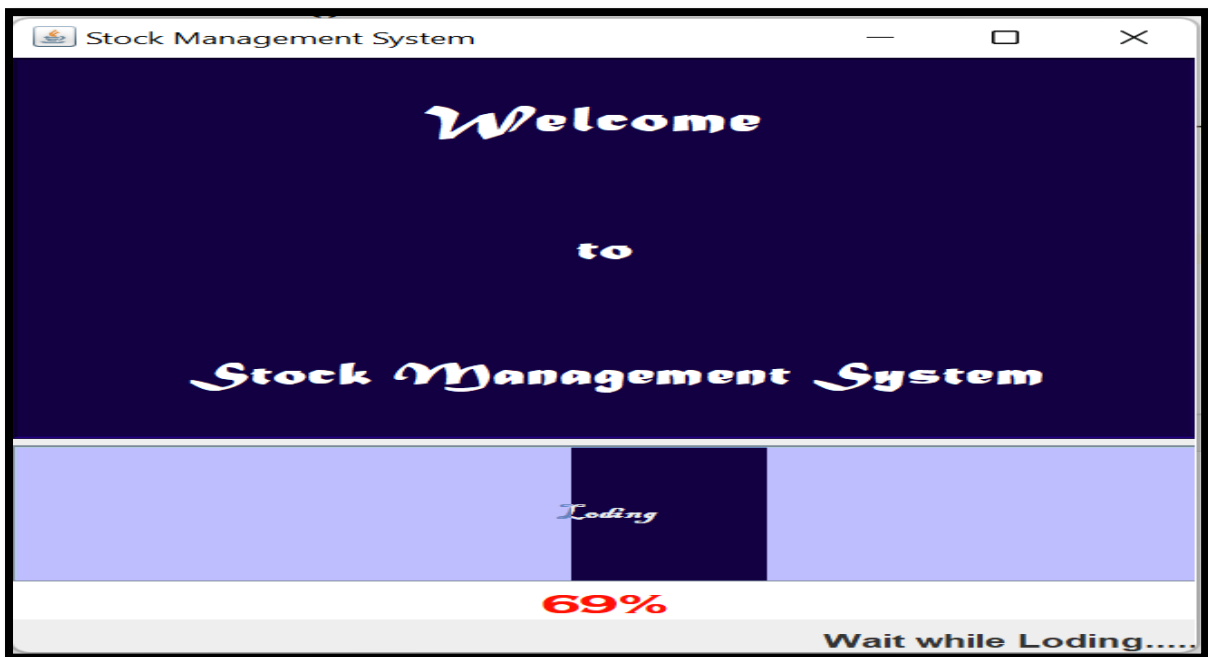


Fig 5.1 Loading Page



Fig 5.2 Login Page



The screenshot shows a web browser window titled "Create a new account". The main heading is "REGISTER NOW!" in large white letters on a teal background. Below this, there are six input fields for registration: "User id", "User name", "Password", "Confirm password", "Email id", and "Moblie no address". At the bottom of the form are three buttons: "Register", "Clear", and "Return".

User id	<input type="text"/>
User name	<input type="text"/>
Password	<input type="password"/>
Confirm password	<input type="password"/>
Email id	<input type="text"/>
Moblie no address	<input type="text"/>

Register **Clear** **Return**

Fig 5.3 Registration Page

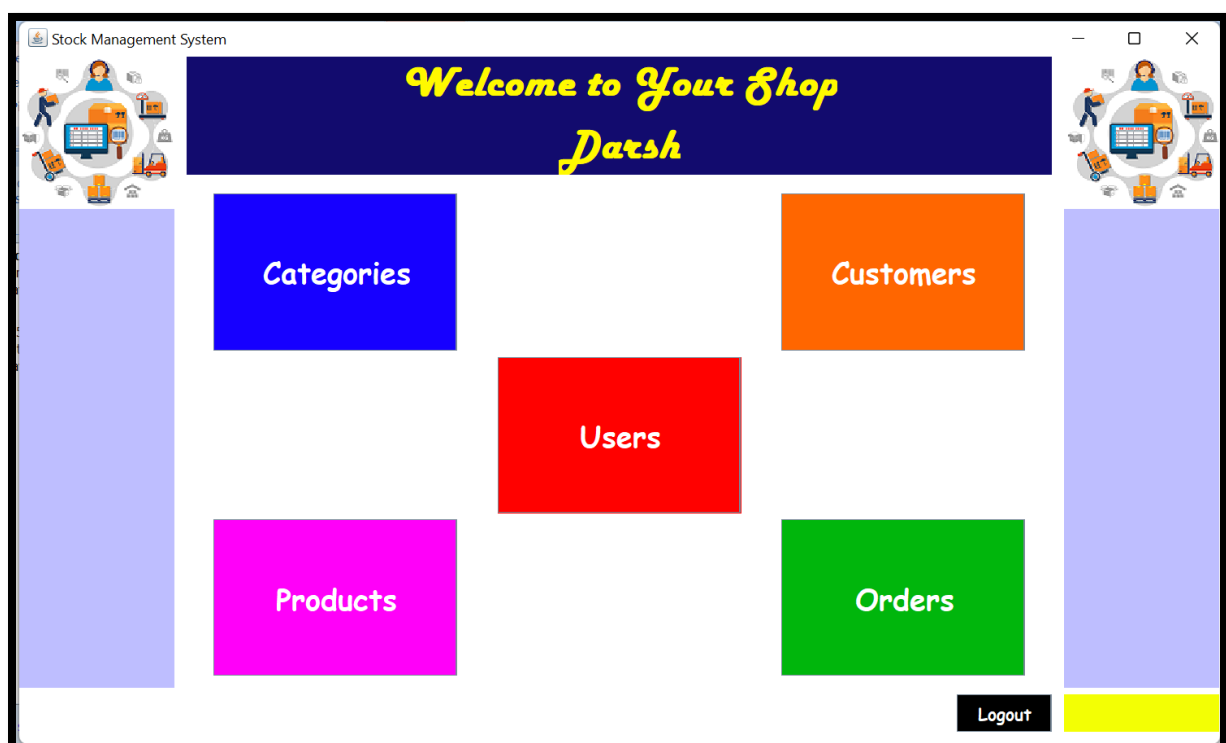


Fig 5.4 Admin Page

Users

User id: 1

User name: Darsh

Password:

Email id: darshtiger17@gmaul.com

Address: Mahemdabad

Contact no: 8866319736

Add User Edit User Delete User

U_ID	U_NAME	PASSWORD	EMAIL_ID	ADDRESS	MOBILE_NO
1	Darsh	D1234	darshtiger1...	Mahemdab...	8866319736
2	Dhruv100	dhruv	rangrasdhr...	Ahemdabad	9081673801
3	dhruv96	depstar	prajapatidh...	Vadodara	9998003542
4	d	d	d@gmail.com	MHD	XXXXXXXX...
5	xyz	abc	xyz@exam...	xyz	XXXXXXXX...
7	z	z	z@g.com	k bd	57675668...

Search

Return

Fig 5.5 User Page

Category

Category id: 1

Category name: Phone

Add Category Edit Category Delete Category

CATEGORY_ID	CATEGORY_NAME
3	AC
6	Cosmetics
8	Fruits
4	Grocery
7	Juices
1	Phone
11	Refrigerator
10	School materials
2	TV
9	Vegetables

Search

Go to Products Return

Fig 5.6 Category Page

Products

Product id

Product Name

Category

AC

Phone

Cosmetics

Fruits

Grocery

Juices

Phone

Refrigerator

School materials

Buy Price

Sell Price

Quantity

Sold Qty

Profit

Add Product

Edit Product

Delete Product

Go to Category

Product Details

P_ID	P_NAME	CATEGORY	BUY PRICE	SELL PRICE	QUANTITY	SOLD QUANTITY	PROFIT
1	Galaxy...	Phone	23000	32000	41	9	9000
2	TV re...	TV	400	600	70	0	200
3	Kelvi...	AC	50000	60000	10	0	10000
4	Apple	Phone	50	100	9	0	50
5	Hair Oil	Cosm...	100	200	44	0	100
6	Onida	Cosm...	70000	80000	66	0	10000
7	LG	TV	30000	36000	3	0	6000
8	Sams...	Phone	35000	41000	80	0	6000
9	Red...	Phone	10000	17000	56	0	7000
10	iPhone	Phone	80000	120000	49	0	40000
11	Uten...	AC	600	1000	34	0	400
12	Ging...	Juices	18	25	19	0	7
13	Potato	Veget...	60	80	29	0	20
14	noteb...	Scho...	25	33	65	0	8
15	Geo...	Scho...	99	132	27	0	33
16	Galax...	Phone	20000	28000	20	0	8000
17	Sams...	TV	30000	70000	50	0	40000
18	LG	TV	50000	100000	15	0	50000
19	Nivya...	Cosm...	110	170	10	0	60

Refresh

Search

Return

Fig 5.7 Product Page

Customers

Customer id

Customer name

Contact no

Email id

Address

Add Customer

Edit Customer

Delete Customer

GO TO ORDER



Customer Details

C_ID	C_NAME	c_no	C_EMAIL	C_ADD...
1	Ramesh	928432...	ramesh...	Ahemda...
2	Suresh	834832...	xy@gm...	Anand
3	Sunil	982374...	yy@yah...	Nadiad
4	Kapil	771712...	Dd9@g...	Punjab
5	Akshay	828282...	Rowdy...	Mumbai
6	Salman	832743...	Khan@...	New Bo...
7	John	938483...	Abraha...	New De...
8	Yamraj	922423...	Devdut...	Ranchi
9	Kishan	924131...	Dhull@...	Rajasthan
10	Ajay	823121...	Devgan...	Indore

Search

Return

Fig 5.8 Customer Pag

Stock Management System

Orders

Order id

104

Customer id

1

Product name

Galaxy A71

Kelvinator
Apple
Hair Oil
Onida
LG
Samsung
Redmi Note 9 Pro
IPhone

Quantity

1

Price

200

Order date

2022

Due Date

2022-04-06

Status

DONE

Add Order

Edit Order

Delete Order

Product Details

P_ID	P_NAME	CATE...	BUY...	SELL...	QUAN...	SOLD...	PROFIT
1	Galax...	Phone	23000	32000	41	9	9000
2	TV re...	TV	400	600	70	0	200
3	Kelvi...	AC	50000	60000	10	0	10000
4	Apple	Phone	50	100	9	0	50
5	Hair Oil	Cosm...	100	200	44	0	100
6	Onida	Cosm...	70000	80000	66	0	10000
7	LG	TV	30000	36000	3	0	6000
8	Sams	Phone	35000	41000	80	0	6000

Order Details

O_ID	C_ID	PRO...	QUAN...	PRICE	O_DA...	DUE...	O_ST...
101	1	Galax...	5	32000	2022-...	2022-...	DONE
102	2	Galax...	3	32000	2022-...	2022-...	DONE
103	2	Galax...	4	32000	2022-...	2022-...	DONE
104	1	Hair Oil	1	200	2022-...	2022-...	DONE

Generate Bill

Search

104

Go to Customers

Refresh

Return

Fig 5.9 Order Page

Inventory Management System

Billing System

Order id

Customer id

Product name

Quantity

Price/pice

Total Amount

COMPANY NAME
CONTACT NO-xxxxxxxxxx
ADDRESS-COMPANY ADDRESS

DATE:2022-04-06
PRODUCT NAME -Galaxy A71
QUANTITY -1
PRICE/PIECE -200 rupee
TOTAL -200.0 rupee

Inventory Management System

Billing System

Order id

Customer id

Product name

Quantity

Price/pice

Total Amount

Fig 5.10 Billing System

Chapter 6: Advantages of Project

1. It is more efficient than writing it down in a book or by memorizing it.
2. There is no any fear of losing data.
3. Easy to manage stock and orders .
4. Easy to analyze demand & trend of different products.
5. It is a way to get more profit.

Chapter 7: Limitation of Project

1. Here is no any facility for Graphical representation of available stock & the trend of particular product in market.
2. This application can't manage order delivery.
3. This limitations will covered in future .

Chapter 8: Future Enhancements

1. Order/product Delivery System will be added.
2. Analysis can be done by user through its weekly/monthly/yearly sales by its statistics.
3. Multiple users can access for their own purpose and their own criteria.

Chapter-9: Conclusion

In this project we learned about database and how to connect database with front end of the app. We had also learned about app development. We also got to know more about front end. Apart from our individual skills, our communication skills also got increased because of group discussion.

Chapter-10: References

- https://www.youtube.com/watch?v=HfSQL2H7_mE
- <https://procoders.tech/blog/how-to-make-STOCK-management-software/>
- <https://www.youtube.com/watch?v=VpwLw42vrwU>
- <https://www.javatpoint.com/java-swing>
- <https://www.javatpoint.com/java-jdbc>
- <https://www.youtube.com/watch?v=3xAM-Bmr4yw>
- <https://www.w3schools.com/mySQL/default.asp>
- <https://www.javatpoint.com/mysql-tutorial>
- <https://www.youtube.com/watch?v=wifRYaPiiM0&list=PLUDwpEzHYyLvWEwDxZViN1shP-pGyZdtT>
- <https://www.youtube.com/watch?v=5vSyyIPPEko>