A Project REPORT ON

"Online Smart Business"

SUBMITTED TO THE MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI.

IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DIPLOMA DEGREE

Diploma In Computer Technology

\mathbf{BY}

Varpe Pankaj Nivrutti	Exam No: 320206
Wale Rajnandan Nitin	Exam No: 320230
Chaudhari Dhananjay Sunil	Exam No: 320192
Gadhave Tushar Bhausaheb	Exam No: 320193

Under the guidance of

Prof. Bhabad .V.M



COMPUTER TECHNOLOGY DEPARTMENT

Amrutvahini Polytechnic, Sangamner Amrutnagar,Ghulewadi Tal-Sangamner ,Pin- 422608, India

2021-2022



COMPUTER TECHNOLOGY DEPARTMENT

Amrutvahini Polytechnic, Sangamner Amrutnagar, Ghulewadi Tal-Sangamner, Pin-422608, India

CERTIFICATE

This is to certify that report on

"Online Smart Business"

Submitted By

Mr.Varpe Pankaj Enrollment No: 1911050065 Mr.Wale Rajnandan Enrollment No: 1911050090 Mr.Chaudhari Dhananjay Enrollment No: 1911050048 Mr.Gadhave Tushar Enrollment No: 1911050049

has completed the Final Report

Prof. Bhabad V.M
Internal Guide
Dept. of Computer Tech.
AVP, Sangamner.

Prof. G.B.KALE
Head
Dept. of Computer Tech.
AVP, Sangamner.

Prof. A.D.Shelkar

Prof. V.B.DHUMAL

Project Coordinator

AVP, Sangamner.

AVP, Sangamner.

Certificate By Guide

This is to certify that Mr. Varpe Pankaj, Mr. Wale Rajnandan, Mr. Chaudhari
Dhananjay, Mr.Gadhave Tushar has completed the Final Report work under my
guidance and supervision and that, I have verified the work for its originality in
documentation, problem statement, implementation in the Sem-VI project.

Place: Sangamner

Date: (Prof.Bhabad V.M)

Project Approval Sheet MSBTE , Mumbai



CERTIFICATE

This is to Certify that

Mr.Varpe Pankaj Mr.Wale Rajnandan Mr.Chaudhari Dhananjay Mr.Gadhave Tushar

Students of Diploma in Computer Technology was examined in Project Report entitled

"Online Smart Business"

on .../.../2022

and

Is approved for the Diploma in Computer Technology

At

Computer Technology Department, Amrutvahini Polytechnic, Sangamner - 422608

Internal Examiner	External Examiner
(Prof.Bhabad V.M)	(Prof.)

ACKNOWLEDGEMENT

As wise person said about the nobility of the teaching profession, Catch a fish and you feed a man his dinner, but teach a man how to catch a fish, and you feed him for life.

In this context, I would like to thank our helpful project guide Prof.Bhabad V.M who had been an incessant source of inspiration and help. Not only did she inspire me to undertake this assignments, she also advise me throughout its course and help me during my times of trouble. I would like to thank H.O.D. of Computer Technology Department Prof. Kale G.B. for motivating me.

Also, I would like to thank other member of Computer Technology Department who helped me to handle this assignment efficiently, and who were always ready to go out of their were to help us during our times of need.

Varpe Pankaj Wale Rajnandan Chaudhari Dhananjay Gadhave Tushar AVP, Sangamner.

List of Figures

3.1	Work Breakdown Structure.	15
3.2	Schedule / Timeline chart.	16
5.1	System Design Diagram	25
5.2	Level 0 Data Flow Diagram	26
5.3	Level 1 Data Flow Diagram	27
5.4	Class Diagram	28
5.5	ER Diagram	29
5.6	Use-Case Diagram.	30-31
5.7	System Working Diagram.	32
6.1	Distributer	38-40
6.2	Retailor	41
6.3	Stockiest	42

ii

List of Tables

3.1 1	Modulation	9
3.2]	Milestone Delivery	9
3.3]	Phases of Project	10
3.3	Activities.	11
3.4	Task Sequence Table.	12
3.5	Efforts Required	13
3.6	Team Structure	14

iii

INDEX

A	Acknowledgement		i
List of Figures List of Tables Index		ii	
		iii	
		iv	
A	bstract		1
1	Introduc	etion	2
	1.1 Introduc	ction.	2
	1.1.1	User Based Problems	3
2	Literatur	re Survey	4
	2.1 Literatur	re Survey	4
	2.1.1 I	Paper 1	4-5
	2.1.2 I	Paper 2	6
	2.1.3 I	Paper 3	6
	2.2 Problem	n Statement	7
3	Scope of	Project	8
	3.1 Project S	Scope	8
	3.1.1	Scope	8
	3.1.2	Milestson	9
	3.1.3	Phases	10
	3.1.4	Activities	11
	3.1.5	Tasks	12
	3.1.6	Effort	13

3.2	Project Plan	14
	3.2.1 Team Structure	14
	3.2.2 Work Breakdown Structure	15
	3.2.3 Schedule	16
	3.2.4 Assumptions	17
	3.2.5 Constraints	17
4 Me	thodology	18
4.1	Algorithm And Code	18
4.2	Modules.	22
	4.1.1. Distributor	22
	4.1.2 Retailor	23
	4.1.3 Stockiest	23
5.1	Requirements Specification 5.1.1 Software Requirements	24 24
5.1		
	•	25
5.2	•	25 26
5.3	Data Flow Diagrams	26
J.J	5.3.1 Level 0 Data Flow Diagram	26
	5.3.2 Level 1 Data Flow Diagram	27
5.4	Class Diagram	28
5.5	ER Diagram	29
5.6	Use-Case Diagram	30-31
5.7	System Working Diagram	32
6 Res	sults and Application	33
6.1	Software Testing	33
	6.1.1 Unit Testing	33
	6.1.2 Integration Testing	33
	6.1.3 System Testing	33

	6.2	Test Cases	28
	6.3	System Design Screenshot	38-42
	6.4	Application	43
7	Cor	nclusion and Future Scope	44
7		nclusion and Future Scope Conclusion	44 44

ABSTRACT

In the modern world, technology has flourished in a very tremendous way. Where ever we go we come across digital gadgets and everything has been atomized whetherit is an institution or business sector or any commercial sector for that matter, anything and everything has become technicality oriented in this cyberspace world. The project "SMART BUSINESS" is a small approach to automate the ledges of the retailers, distributors and stockiest and help them to overcome stress when comes to investment analysis and management of stocks, orders and maintaining products such as baby care, biscuits, body care, hair care etc..., This project deals about the marketing and requirement strategy of the clients. These marketing strategies differ from place to place, time to time and from product to product. This is an application which is been developed and customized based on the categories of clients. The categories of clients are i) Retailer ii) Distributor iii) Stockiest. Using this application the retailer can maintain his/her profile. He/ She can find all the distributors available for the product for which has registered. He / She can order the products from the nearest and available distributors based on the demands of the customers. Similarly, using this application a distributor can maintain his/her profile and can find all the stockiest available for the products for which he/she has registered. He/ She can order the products from the nearest and available stockiest based on the demands of the retailers. They can maintain the track of retailers existing in their location so that they can expand their business. In the same way, Stockiest can maintain their own profile and can maintain the details about their products and even their clients and orders placed by them so that it could be delivered as soon as possible. They also record the information regarding the stock availability, reorder level and expiry of products.

Chapter 1

Introduction

1.1 Introduction

Retail markets and shops have a very ancient history, dating back to antiquity. Re-tailing involves the process of selling consumer goods or services to customers through multiple channels of distribution to earn a profit. Retailers satisfy demand is identified through a supply chain. Retailers typically make a variety of strategic level decisions including the type of store, the market to be served, the optimal product assortment, customer service, supporting services and the store's overall market positioning. Once the strategic retail plan is in place, retailers devise the retail mix which includes product, price, place, promotion, personnel and presentation. In the digital age, an increasing number of retailers are seeking to reach broader markets by selling through multiple channels, including both bricks and mortar and online retailing. Digital technologies are also changing the way that consumers pay for goods and services. Retailing support services may also include the provision of credit, delivery services and a range of supporting services.

1.1.1 User Based Problems

The existing system of operation and method of Online Smart Business has been haunted by the following problems:

- 1. It is not cost-effective for small scale business owner.
- 2. Invoices can go into spam folders due to flagging by email servers; that leads to delay of payments.
- 3. Reaching offline customers who do not access the internet makes the process difficult.
- 4. Automatic invoices and management system reduces human mediation, which reduces personal touch for the business.
- 5. Irregularity of updates can lead to hardships and hassles between Purchase and credits.

Chapter 2

Literature Survey

2.1 Literature Survey

As you probably know, manufacturers produce products and retailers sell them to end users. A can of motor oil, for example, is manufactured and packaged, then sold to automobile owners through retail outlets and/or repair shops. In between, how ever, there are a few key operators-also known as distributors-that serve to move the product from manufacturer to market. Some are retail distributors, the kind that sell directly to consumers (end users). Others are known as merchant wholesale distributors; they buy products from the manufacturer or other source ,then move them from their warehouses to companies that either want to resell the products to end users or use them in their own operations.

2.1.1 Paper 1

OSaaS: Online Shopping as a Service to Escalate E-Commerce in Developing Countries by M.Khan.

Service Computing, peculiarly, Everything as a Service (XaaS) has brought an immense commute in the cloud computing and boosts up the business strategies by introducing online platforms and technologies. It creates a new horizon of opportunities in business process, modeling, management and online shopping. Here a set of problems is unfolded which destitute the growth rate of E-Commerce in developing countries, especially, in rural areas. Low literacy, communication language, limited Internet access, low Internet users, non-availability of credit or debit cards are the core problems in the developing countries for online shopping. In this paper, Online Shopping as a Service model with Cloud Service Center is proposed to overcome these

challenges. This model escalates the online shopping usage to enhance

p o fa a	arty role be- tw rder to the clou acility center for doption of our	nd service center reen consumers a d service center r the de- sired proposed model n immense range	and online vend in local langua product. Exper to build conf	dors. Consumers ge via phone of imental analysi fidence of onlin	s can place an r can visit the s showed the

2.1.2 Paper 2

Securing e-business applications using smart card

As the Internet is used increasingly as a platform for business transactions, security becomes a primary issue for Internet applications. Some applications are too sensitive for software-only security mechanisms. Higher levels of protection can be achieved with smart-card-based authentication schemes and transaction protocols. In this paper, we provide examples of typical banking applications implemented with smart cards using symmetrical (DES) and asymmetrical (RSA) cryptography. We present a pure Java™ architecture for such applications, which is intended for use on standard Web application servers and client devices enabled for Web browsing and the Java language. It employs applets on the client side to access smart cards via the Open Card Framework. The applets communicate with authentication servlets or application servlets on the server side and act as a mediator between the smart card and the application logic on the server.

2.1.3 Paper 3

RATAN: A Smart Business to Business (B2B) Communicator by Swarup Das Business to Business (B2B)

Marketing focuses on meeti- ng the requirement of business rather than con-summers , and which make it complex business system. The B2B business strategy involves business campaign of manifested information about products or services. With widespread use of the Internet, series of different . marketing processes such as searching for suitable business provider/supplier, getting contact in-formation, make a deal with particular business provider/supplier, getting updates of business and many more are handled though web. There are many systems available providing all these processes online but not in a single window. In this paper, we are proposing a system called RATAN provides a solution in B2B business strategy. In this system, all business processes starting from searching to dealing are automated smartly in single platform. We used web crawling algorithm to deal with getting information of particular business provider and facility to contact though phone call or sending mail. We are also providing an eminent feature of automated meeting scheduler. Our system performing on real B2B marketing business and result show that the proposed system can effectively improve the quality of B2B strategy for challenging B2B tasks.

2.2 Problem Statement

- i. Maintaining more than one store Those who have a chain of stores or even more than one store, product/item lookup, inventory transfer, checking the overall sales report and more becomes difficult
- ii. Level of efficiency In case of both the retail stores and QSRs,
 managing customers and billing during the rush hours become tough.
 Hand billing or billing through a cash register takes time and serving more number of customers in less times becomes an impossibility
- iii. Maintaining payments and receivables A cash register does not provide you the option to keep a check on your payments and receivables. So, without a billing solution, you need to keep track of these things manually, which again takes up a lot of your time.
- iv. Keeping track of stock Keeping track of stock is one of the most important things for a business. But a cash register cannot provide any kind of help in this regard
- v. Maintaining customer satisfaction Customer satisfaction is of foremost importance for any business. However, if billing takes time, if there's a problem with the delivery, etc., it becomes hard for a business to retain the customers.

Chapter 3

Scope of Project

3.1 Project Scope

The system will not incorporate in its development all the functions of a Retailer , Distributor and Stockiest but will focus only on the aforementioned functionalities. Reasons For Rising Scope of Online Smart Business :

- Offer stand Discounts.
- Fast Shipping
- Customer Service.
- Advertising.
- B2C and B2B Offering

3.1.1 Scope

- 1. The retailer can make the online payment to distributor in future
- 2. In future we can develop this application for Windows and IOS.
- 3. In adding the more features of online smart business management system to develop access with user's flexibility.
- 4. To authenticate the users based on the system users list which is maintained by the operating system

3.1.2 Modules

Following are the milestones along with description and their expected delivery date:

Module ID	Module Name
M1	Distributer Module.
M2	Retailer Module
M3	Stockiest Module

Table 3.1: Modularization of Project

3.1.3 Milestones

Milestone	Description	Delivery Date
Feasibility Study approved	The Feasibility Study has been documented and was approved by the Project Guide.	17/08/2022
Project Planning approved	Project planning has been documented and was approved by the project Guide	29/08/2022
Hardware built	The Hardware requirements are documents and built.	21/9/2022
Modules Developed.	The software requirements are documented and built successfully.	26/04/2023
Integration of . Modules	All the built modules are successfully integrated and verified for compatibility.	04/04/2023
Testing	Test cases are verified. Testing process is completed	18/05/2023
Final approval and submission.	All the documentation is prepared and approved by project guide. Approved for submission	20/06/2023

Table 3.2: Milestone Delivery

3.1.4 Phase

Project will be comprising of 4 following phases:

Phase	Description	Sequence
	Defining the project by developing a business	
Project Initiation	case, feasibility study and Project Charter.	Phase # 1
	Estimation of the expected cost.	
Project Planning.	The project deliverables and requirements are	Phase # 2
rioject riummig.	defined, and the project schedule is created.	Thase ii 2
	In this phase coordinating people and	
	resources, as well as integrating and	
Project Execution	performing the activities of the project in	Phase # 3
	accordance with the project plan is to be	
	done	
	All the documentation, testing reports,	
Project Closure	plagiarism check reports are to be generated	Phase #4
	and submitted	

Table 3.3: Phases of Project

3.1.5 Activities

Pnase	Activity	Description	Sequence
Project Planning	Develop Quality Plan	Produce a document describing Quality Assurance and Quality Control and process review activities to be undertaken.	After the Project Plan but before the formulation of supplier.
Project Planning	Formulation of supplier	Produce a document describing hardware required along with its specification and get quotation from different vendors	After the Project Plan but before the Execution

Table 3.4: Activities

3.1.6 Tasks

A 'task' is simply an item of work to be completed within the project. List all tasks required to undertake each activity, within the following table:

Phase	Activity	Task	Sequence
	Develop	Develop Business Case	1st
Project Initiation	quality	Perform Feasibility Study	2nd
	Charter	Perform Stage-Gate	3rd
	Develop	Identify Quality Targets	1st
Project Planning	Quality	Identify Quality Targets Identify Quality Assurance	2nd
1 Tojece I lamming	Plan	TechniquesIdentify Quality Control	3rd
		Techniques Document Quality Plan	4th
		Formulation of	5^{th}
		supplier	1st
Project Execution	F .	Develop all Phases Integrate all developed	2nd
Execution	Execute	PhasesPerform integration	3rd
	project according	testing Perform system	4th
	to Plan.	testing Perform final	
	00 1 10.111	calibrations	5 th
		Verify the baseline acceptance	
Project Closure	Verify	criteria.Prepare the delivery	1st
,	Acceptance	documentation.	2nd
	Criteria.	Perform plagiarism on	3rd
		documentation Review project	JIU

Table 3.4: Task Sequence Table

3.1.7 Effort

For each task listed above, we have quantified the likely 'effort' required to complete the task.

Task	Effort
Develop Business Case. Perform	2 days
Feasibility Study.	3 days
Perform Stage-Gate.	1 day
Identify Quality Targets	16 days
Identify Quality Assurance Techniques	12 days
Identify Quality Control Techniques	17 days
Document Quality Plan	10 days
Develop WBS	5 days
Formulation of supplier	3 days
Build Hardware. Develop all	52 days
modules.	107 days
Integrate all developed modules. Perform	14 days
integration testing.	4 days
Perform system testing.	17 days
Perform final calibrations.	2 days
Verify the baseline acceptance criteria. Prepare the	4 days
delivery Documentation.	6 days
Perform plagiarism on prepared documentation	2 days
Review project completion	2 days

 Table 3.5: Efforts Required

3.2 Project Plan

3.2.1 Team Structure

Sr. No.	Name Of Student	Role	Responsibility
1	Gaikwad Shradha Balasaheb	Developer, Analyst, Designer, Tester.	Development of Phase 1 and Phase 2
2	Anuja Vilas Wale	Developer, Designer, Tester.	Development of Phase 3 and 4
3	Muskan Sayyad	Analyst, Designer.	Development of Phase 5
4	Anuja Wale	Analyst, Designer	Development of Phase 5

Table 3.6: Team Structure

3.2.2 Work Breakdown Structure

The following is the Work Breakdown diagram of project.

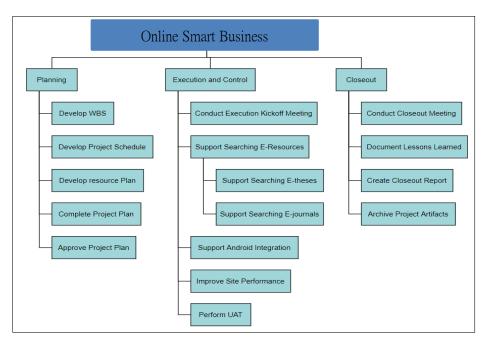


Figure 3.1: Work Breakdown Structure.

3.2.3 Schedule

Following provided is a summarized schedule for each of the phases and activities within the project.

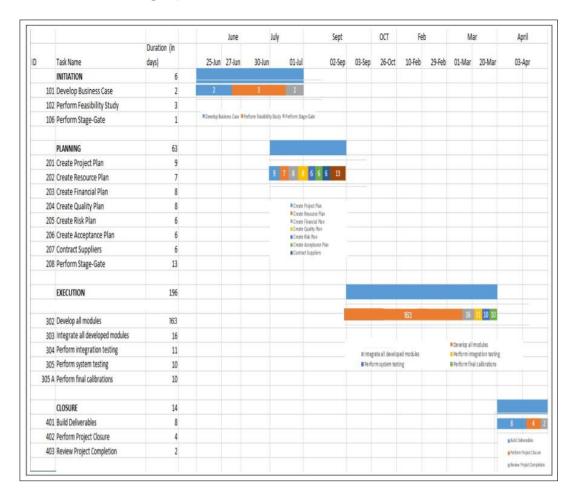


Figure 3.2: Schedule / Timeline chart.

3.2.4 Assumptions

It is Assumed that:

- The resources identified will be available
- Required funding will be available.
- No licensing needs to be done for prototype
- Calibrations and accuracy can be improved in upcoming iterations

3.2.5 Constraints

Planning constraints identified are as follows:

- The project must operate within the funding and resource allocations approved
- First produced prototype must be cost efficient.
- Team must complete the project within Final submission.

Chapter 4

Methodology

This system enhanced combined all stockiest, distributor, retailer and also user. Its reduced time consuming process. Here need limited resources only. Ecommerce allows you to reach customers all over the country and around the world. Your custimers can make a purchase anywhere and anytime, especially more people are getting used to shopping on their mobile devices. Ecommerce website through SEO, PPC ads or a good old postcard, there is a way to track your traffic and customers' entire user journey to get insights into keywords, user experience, marketing message, pricing strategy, and more. Ecommerce platform technologies, it has become very easy and affordable to set up and maintain an ecommerce store with a low overhead. Ecommerce platforms give merchants the opportunity to serve up personalized content and product recommendations to registered customers. These targeted communications can help increase conversion by showing the most relevant content to each visitor

- 1. This system enhanced combined all stockiest, distributor, retailer and also user.
- 2. Its reduced time consuming process.
- 3. Here need limited resources only.
- 4. Low cost Application

4.1 Project Algorithm And Code

We use the following Algorithms.

Arranging a particular type of data in a sequential arrangement: storing contacts on our phone, storing speech signals in speech processing, etc. Implementing of Stack and Queue, Adjacency matrix representation of Graphs, Implementing hash tables and heaps.

 Login-For Distributor Approve user-

1. DISTRIBUTOR-

1.1 Add Retailor-

- 1.1.1 Enter Name
- 1.1.2 Enter Address
- 1.1.3 Enter Email
- 1.1.4 Enter Mobil Number
- 1.1.5 Enter Password

1.2 Add product-

- 1.2.1 Select Category
- 1.2.2 Enter product Name
- 1.2.3 Enter Quantity
- 1.2.4 Enter Price
- 1.2.5 Create a Product Id
- 1.2.6 Add Product Image

```
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/rea/android"
xmlns:app="http://schemas.android.com/apk/rea-auto"
xmlns:app="http://schemas.android.com/apk/rea-auto"
xmlns:tools="http://schemas.android.com/apk/rea-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_height="match_parent"
tools:context=".st HomeActivity"
android:background="@drawable/background_gradient"

</pre>
```

Fig. 1 Distributor Home XML File

- Login For Retailor Approve user-
- 2. Retailor-

2.1 View Product-

Retailer can be view the products and search the products of availability. If can't available the goods retailer will be purchase from the stockiest.

2.2 Add Stockiest

- 2.1.1 Enter Name
- 2.1.2 Enter Address
- 2.1.3 Enter Email
- 2.1.4 Entre Mobile Enter Password
- 2.1.5 Add Stockiest

Fig 2. Retailor Home XML File

• **Login**- For Stockiest Approve user-

3. Stockiest-

3.1Add Product

- 3.1.1 Select Category
- 3.1.2 Enter Product Name
- 3.1.3 Enter Quantity
- 3.1.4 Enter Price
- 3.1.5 Create Product Id
- 3.1.6 Add Product Image

3.2 View Product

A stockiest can be view the production stock, available stock and maintenance stock.

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
xmlns:android="http://schemas.android.com/apk/res/android"
        xmlns:app="http://schemas.android.com/apk/res-auto"
        android:layout width="match parent"
        android:layout height="match parent"
        tools:context=".StockistHomeActivity"
        android:background="@drawable/background gradient"
<androidx.recyclerview.widget.RecyclerView</pre>
        android:layout width="match parent"
        android:layout height="match parent"
        app:layout constraintTop toTopOf="parent"
        android:layout marginTop="10dp"
        app:layout constraintStart toStartOf="parent"/>
<ProgressBar
                style="?android:attr/progress3arStyle"
                android:layout width="wrap content"
                android:layout height="wrap content"
                app:layout constraintTop toTopOf="parent"
                app:layout constraintStart toStartOf="parent"
                app:layout constraintEnd toEndOf="parent"
                app:layout constraintBottom toBottomOf="parent"
</androidx.constraintlayout.widget.ConstraintLayout>
```

Fig. 3.1 Stockiest Home XML File

4.2 Modules

4.2.1 DISTRIBUTOR

- 1. Register and Login Distributor has to register their basic details to get access This service. And the main activities in the application are the user login page for user. The other modules are followed by this login page. This module records only user and password of the user.
- 2. Create product A Distributor will be create the products is based on the user's requirements. Like product name, their description, cost, shipping date and shipping chargers also.
- 3. View my production A distributor can be view the production stock, Available stock And maintenance stock.
- 4. Upload image Distributor will be upload the images on production stocks and available stocks

4.2.2 RETAILER

- 1. Register and Login Retailer has to register their basic details to get access with this service. And The main activities in the application are the user login page for user. The other modules are followed by this login page. This module records only user and password of the user.
- 2. View and search Products Retailer can be view the products and search the products of availability. If can't available the goods retailer will be purchase from the stockiest.
- 3. Place Orders for Distributor Retailer will check the orders from the users. If retailer can get orders it will distribute to the distributor
 - 4. My order Retailer will check the user's orders. And chart to the order list.
- (a) Histogram generation by HOG (b) pipelining SVM to HOGoutput

4.2.3 STOCKIEST

- Register and Login Stockiest has to register their basic details to get access with this service. And the main activities in the application are the user login page for user. The other modules are followed by this login page. This module records only user and password of the user.
- Create product A stockiest will be create the products is based on the user's requirements. Like product name, their description, cost, shipping date and shipping chargers also.
- View my production A stockiest can be view the production stock, available stock and maintenance stock.
- Upload image Stockiest will be upload the images on production stocks and avail- able stocks.
- Edit/Delete Product A Stockiest can be edit the product details, cost or description. Or else if stock will not available stockiest can delete the product

Chapter 5

Details of Design, working and processes

5.1 Requirements Specification

5.1.1 Hardware Requirements

1. Processor: Intel CORE i3 2.00GHz.

2. Hard Disk Capacity: 1TB

3. Ram: 8 GB.

5.1.2 Software Requirements

1.Android Emulator

Android Studio

5.2 System Design diagram

System Design diagram can help system designers and developers visualize the high-level, overall structure of their system or application for the purpose of ensuring the system meets their users' needs. You can also use design diagrams to describe patterns that are used through.

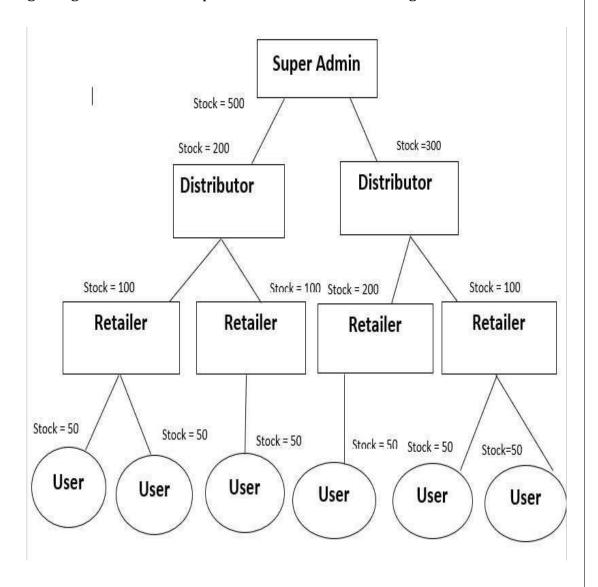


Figure 5.1: System Design Diagram

5.3 Data Flow Diagrams

A data flow Diagram is a graphical representation of all major steps, and how the data flow through the system.

5.3.1 Level o Data Flow Diagram

DFD Level 0 is also called a Context Diagram. Its a basic overview of the whole system or process being analyzed or modeled. Its designed to be an at-a-glance view, showing the system as a single high-level process, with its relationship to externalentities.

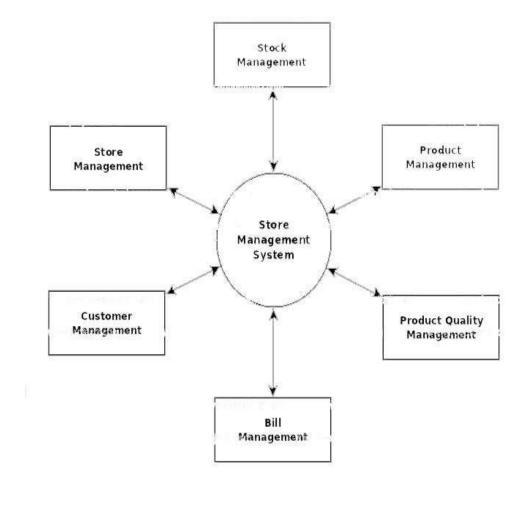


Figure 5.2: Level 0 Data Flow Diagram

5.3.2 Level 1 Data Flow Diagram

DFD Level 1 provides a more detailed breakout of pieces of the Context Level Diagram. You will highlight the main functions carried out by the system, as you break down the high-level process of the Context Diagram into its sub-processes.[referfig 5.3]

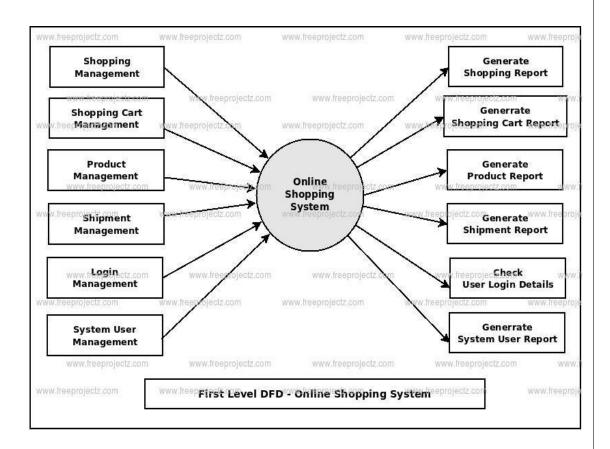


Figure 5.3: Level 1 Data Flow Diagram

5.4 Class Diagram

A class diagram in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects.

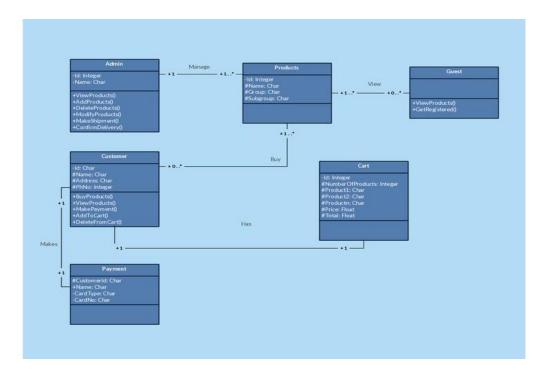


Figure 5.4: Class Diagram

5.5 E-R Diagram

An Entity is an object or component of data . An Entity is Represented As rectangle in an ER diagram

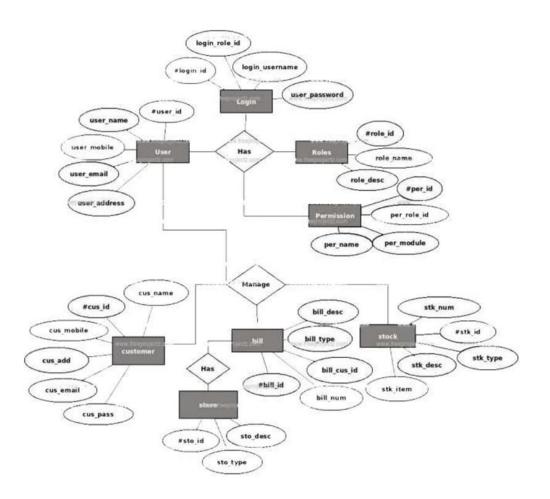
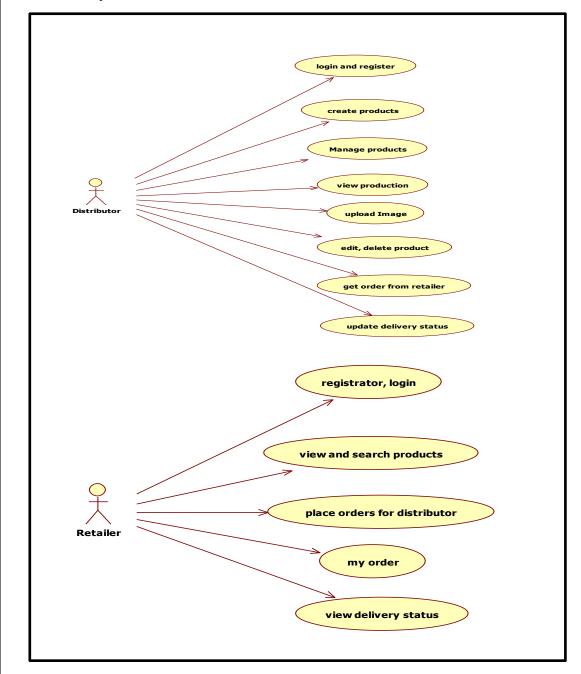


Figure 5.5: Activity Diagram

5.6 Use-Case Diagram

A use case diagram is a dynamic or behavior diagram in UML. Use case diagrams model the functionality of a system using actors and use cases. Use cases are a set of actions, services, and functions that the system needs to perform. The "actors" are people or entities operating under defined roles within the system.



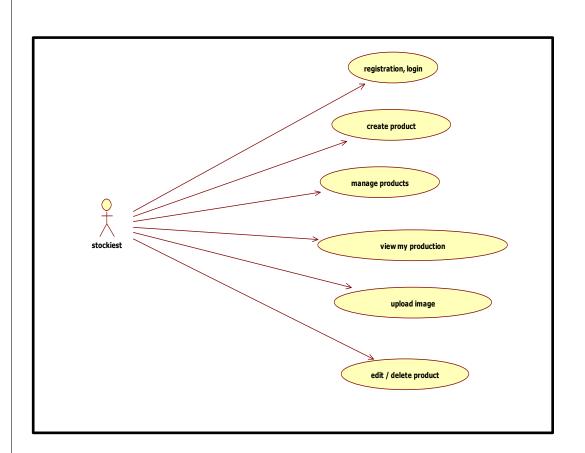


Figure 5.6: Use-Case Diagram

5.7 System Working Diagram

A system working diagram in engineering is a diagram that defines the boundary between the system, or part of a system, and its environment, showing the entities that interact with it. This diagram is a high level view of a system.

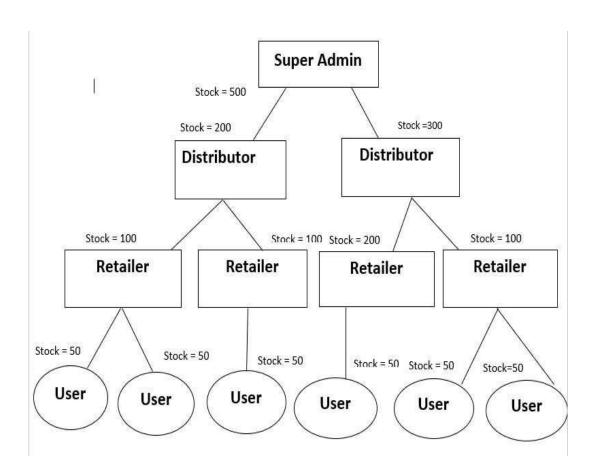


Figure 5.7: System Working Diagram

Chapter 6

Results and Application

6.1 Software Testing

Following are the main levels of software testing as described Types and Levels of Testing:

6.1.1 Unit Testing

Unit Testing is a level of the software testing process where individual units / components of a software/system are tested. The purpose is to validate that each unit of the software performs as designed

6.1.2 Integration Testing

Integration Testing is a level of the software testing process where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units.

6.1.3 System Testing

System Testing is a level of the software testing process where a complete, integrated system/software is tested. The purpose of this test is to evaluate the system's compliance with 4. Acceptance Testing is a level of the software testing process where a system is tested for the specified requirements. acceptability. The purpose of this test is to evaluate the system's compliance with the business requirements and assess whether it is acceptable for delivery.

6.2 Test Cases Login form

SR.NO	Test Case	Excepted Result	Test Result
1	Enter valid Name and	Software should Display main	Successful
	Password & Click on Login	window	
	For		
	(Distributor , Retailor,		
	Stockiest)		
2	Enter Invalid	Software should not display	Successful
		main window	

When Distributor Page Successfully Login

Sr. no	Test case	Excepted Result	Test Result
1	On The Click of Add Retailor Button	At first user have to fill all fields with proper data, if any Error like entering text data instead of number or entering number instead of text.is found then it gives proper message otherwise Adds Record To the Database	Successful
2	On The Click of Add Product Button	At first user have to fill all fields with proper data, if any Error like entering text data instead of number or entering number instead of text.is found then it gives proper message otherwise Adds Record To the Database	Successful
3	On The Click of Product Button	The product information and products added by the distributor will appear	Successful
4	On The Click of Retailor Button	The product information and Retailor added by the distributor will appear And can contact the retailer	Successful
5	On The Click of Logout Button	Logout from Distributer's page	Successful

When Retailor Page Successfully Login

Sr no	Test Case	Excepted Result	Test Result
1	On The Click of View Product Button	The product sold by the stockiest will be visible to the retailer	Successful
2	On The Click of Add Stockiest Button	At first user have to fill all fields with proper data, if any Error like entering text data instead of number or entering number instead of text.is found then it gives proper message otherwise Adds Record To the Database	Successful
3	On The Click of Logout Button	Logout from Retailors page	Successful

$When \ Stockiest \ Page \ Successfully \ Login:$

Sr. No	Test Case	Excepted Result	Test Result
1	On The Click of Add Product Button	At first user have to fill all fields with proper data, if any Error like entering text data instead of number or entering number instead of text.is found then it gives proper message otherwise Adds Record To the Database	Successful
2	On The Click of View Product Button	The stockiest will see the product they want to sell	Successful
3	On The Click of Sell Button	Successfully sells the product given to the stockiest	Successful
4	On The Click of Add Button	stockiest successfully add product	Successful
5	On The Click of Logout Button	Logout from Stuckist's page	Successful

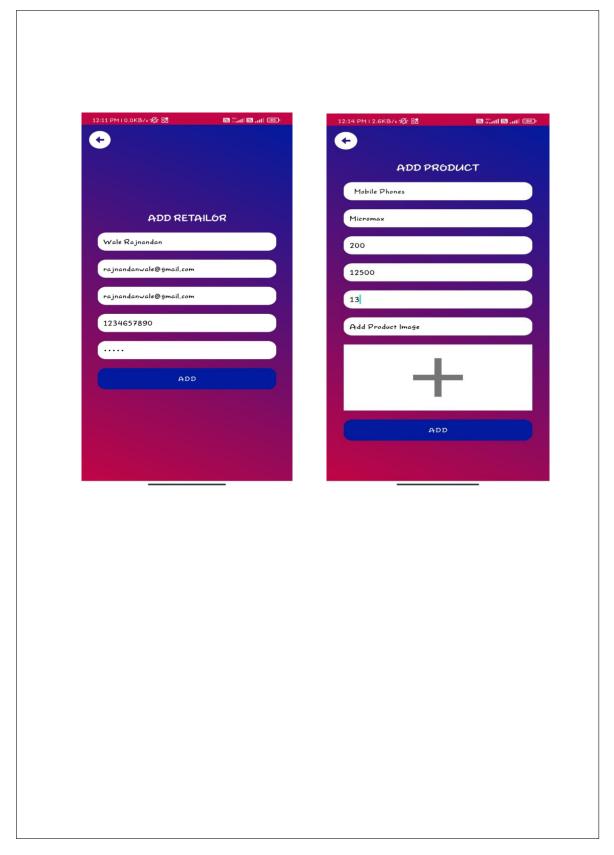
6.3 System Design Screenshot

Following are the Images and Screenshots of system.

System Design(DISTRIBUTOR) :







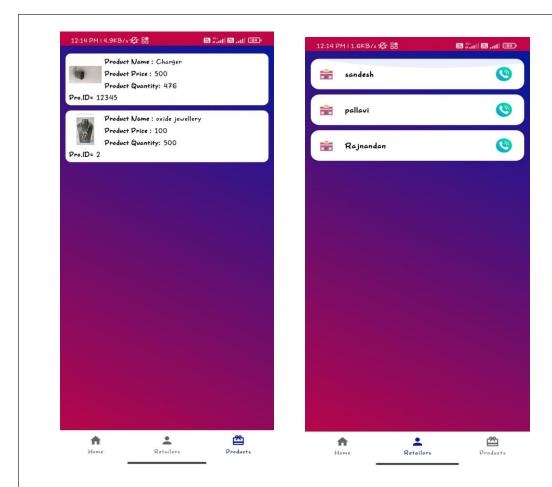
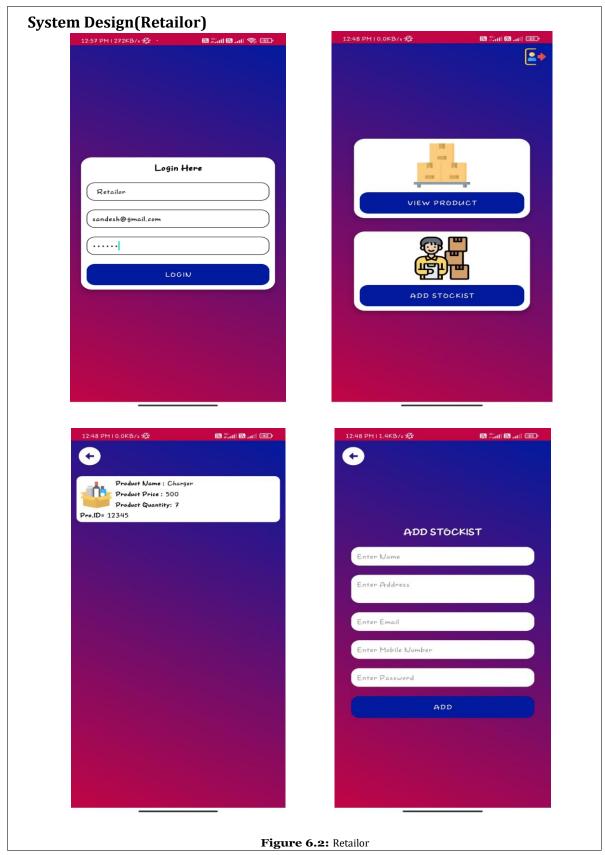
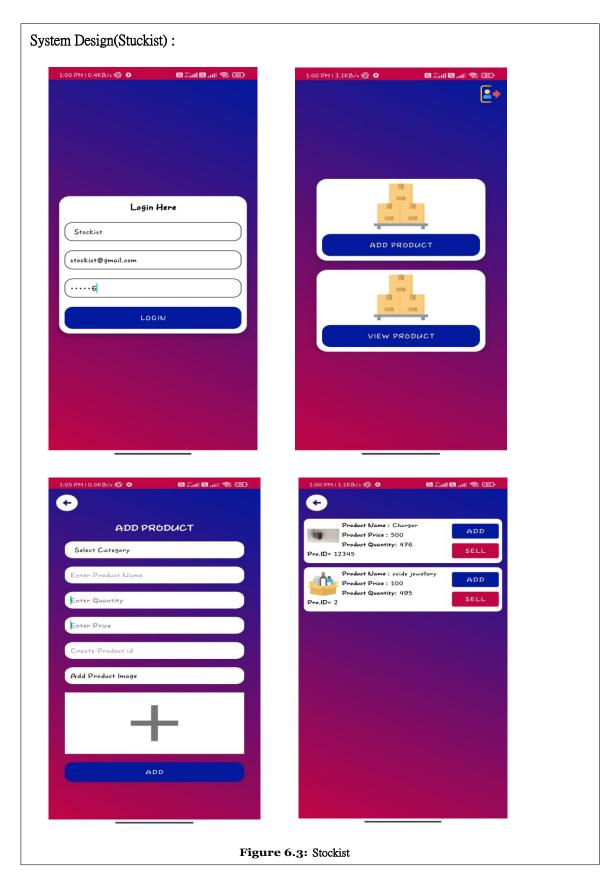


Figure 6.1: DISTRIBUTOR



41



42

6.4 Application

- 1. Allow online change or cancellation of order.
- 2. Online Purchase Of products
- 3. Maintain customer profile
- 4. Maintain stock.

Chapter 7

Conclusion and Future Scope

7.1 Conclusion

- The main objective of "ONLINE SMART BUSINESS" is to enhance and upgrade the existing system by increasing it efficiency and effectiveness.
- Due to the change in buying behavior of consumers, ecommerce business has emerged to provide another channel for shopping online.
 In an e-commerce business, orders are first received through the online platform, then the goods are delivered to customers.
- Using this application the retailer can maintain clients profile. Clients can find all the distributors available for the product for which has registered. clients can order the products from the nearest and available distributors based on the demands of the customers.
- Ssimilarly, using this application a distributor can maintain clients can order the products from the nearest and available stockiest based on the demands of the retailers. They can maintain the track of retailers existing in their location so that they can expand their business.

7.2 Future Scope

- 1. The retailer can make the online payment to distributor in future
- 2. In future we can develop this application for Windows and IOS.
- 3. In adding the more features of online smart business management system to develop access with user's flexibility.
- 4. To authenticate the users based on the system users list which is maintained by the operating system

Bibliography

- [1] M. Falk, and E. Hagsten, "E-commerce trends and impacts across Europe", International Journal of Production Economics, 170, pp. 357-369, 2015.
- [2] J. Mosteller, N. Donthu, and S. Eroglu, "The fluent online shopping experience", Journal of Business Research, 67(11), pp. 2486-2493, 2014.
- [3] Y. Fang, I. Qureshi, H. Sun, P. McCole, E. Ramsey, and K.H. Lim, "Trust, Satisfaction, and Online Repurchase Intention: The Moderating Role of Perceived Effectiveness of E-Commerce Institutional Mechanisms". Management Information Systems Quarterly, 38(2), pp. 407-427, 2014.