

ONLINE SUPER MARKETMANAGEMENT SYSTEM

A Project Report Submitted to the Acharya Nagarjuna University, Guntur



For the partial fulfillment of requirements for the Award of the Graduation

BACHELOR OF SCIENCES

By

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CERTIFICATE

This is to certify that it is a bonifide work entitles **“ONLINE
SUPER MARKET MANAGEMENT SYSTEM”** have done by
“SIRIPELLI. MOUNIKA (Y193016067)”, In the academic year 2021 – 2022 in
partial fulfillment of the requirements for the award of degree of **Bachelor of
Sciences** in the Department of **Computer Science**.

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ACKNOWLEDGEMENT

I sincerely thank the following distinguished personalities who have given their advice and support for successful completion of this work.

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I Extend my Sincere thanks to **Smt. N. RAJYA LAKSHMI**, Head of the Dept. for her kind Co-operation and providing the Required resources.

I am very thankful to my project guide **Sri. P. MABU JOHNY** Asst. Professor, Dept. of computer Science, **Y.A. Govt. Degree College for Women, Chirala**, for his Co-operation and inspiring guidance and immense help during the course of Project.

I Extend our Sincere thank to all other teaching and non-teaching staff of the department and who helped directly or indirectly for their co-operation and encouragement.

This Project is a proud presentation of my work to the greatness of our professors and friends who have encouraged me all through the duration of project.

S. Mounika
SIRIPILLI. MOUNIKA
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DECLARATION

This is to state that the dissertation titled "ONLINE SUPER MARKECT MANAGEMENT SYSTEM" carried out at the Department of Computer Science, Y.A. Government Degree College for Women, Chirala is based on the original work carried by me under the guidance of Sri. P. Mabu Johny Asst. Professor towards the partial fulfillment of requirements for award of B.Sc. This Project work has not been submitted to any other University or Institution either in part of full towards any other degree up to my knowledge and belief.

Date: 22/06/2022

Place: Chirala

S. Mounika
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SIRIPILLI. MOUNIKA

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ABSTRACT

This project is aimed to develop the **Supermarket Administration System**, which is used to simplify the maintenance of the complete details of products, inventory, staff, customers, billing, delivery of goods, etc.

This project is to be used in many big supermarket / departmental stores and is to be used to cater the need of the sales system there. This is an online system and should be used to maintain / control most of the activities happening in supermarket. This maintain should and control the stock details and should do the online billing and generate various online reports.

CHAPTER 1: INTRODUCTION TO THE PROJECT WORK

1.1 Background CHAPTER

This project is aimed to develop the Supermarket Administration System, which is used to simplify the maintenance of the complete details of products, inventory, staff, customers, billing, delivery of goods, etc.

This project is to be used in many big supermarket / departmental stores and is to be used to cater the need of the sales system there. This is an online system and should be used to maintain /control most of the activities happening in supermarket. This maintain should and control the stock details and should do the online billing and generate various online reports.

The development work is taken up by WICORE Pvt. Ltd., Hyderabad.

Organization Profile:

WICORE Pvt. Ltd., Was found in 1994, Wicore is organized as three strategic Business units catering to Software Development, Software services and data managements and training areas. The company is steered by a highly motivated team of technologists with solid software development experience. The company is steered by a high performing and young board of directors, all of who have an average software industry experience of 8 years. The management is result oriented, which is achieved by consensus. Key issues are brainstormed and an optimal solution ensured. All the business functions, the strategic business units and related responsibilities are shared among the directors thus ensuring smooth and efficient business process.

Wicore implemented mini client/server applications for a variety of business processes and developed software libraries for finance, inventory, sales orders, purchases, manufacturing, human resources and production process in an enterprise.

1.2 Existing System

Imperial Retail Supermarket is a big supermarket where 2000 types of items are sold. Every day 500 customers visit the supermarket and make the purchases. Presently this supermarket is using a computerized system to sales. But this system maintained at individual databases. And the system doesn't provide online services like online reports, and centralized database.

Limitations in Existing System

1. This system is maintained at individual database.
2. The User or customer cannot easily access the database.
3. In the current system there is not much database maintenance, therefore accessing single records take more time to verify the data of particular customer information.

1.3 Proposed System

The Proposed system is a browser which is completely related to online system, which provides the centralized database. The web enabled Retail super market system designed to computerize the entire operations of a modern Retail Super markets. The system allows multi-divisional, multi-department system handling that includes various activities.

Advantages over Existing System

1. In this system the database is maintained in centralized manner.
2. The user can access the entire supermarket products list so that they can place an order of particular products.
3. This system is very fast because of the centralized database and accessing database will be very easy, when compared to the existing system.

1.4 Team Setup

The company formed a group of programmers with one project manager and two team leaders. The Team arrangement is organized in the form, one team for Analysis, second team for Design and Development, and the other Independent team for Testing in order to deliver the error-free product, with Transferability of Individuals from one team to other team on need base.

I have been entrusted with responsibilities of design and development for a period of time. I have taken part in the development of the present system at different phases including documentation and preparing user manuals.

CHAPTER 2: SYSTEM ANALYSIS

System Analysis is first stage according to System Development Life Cycle model. This System Analysis is a process that starts with the analyst. Analysis is a detailed study of the various operations performed by a system and their relationships within and outside the system. One aspect of analysis is defining the boundaries of the system and determining whether or not a candidate should consider other related systems. During analysis, data is collected from the available files, decision points, and transactions handled by the present system.

2.1 Conversion of Problem Statement to Computerized Solution

This project is aimed to develop the Supermarket Administration System, which is used to simplify the maintenance of the complete details of products, inventory, staff, customers, billing, delivery of goods, etc.

This is an online system and is used to maintain / control most of the activities happening in supermarket. This maintains and controls the stock details and does online billing and generates various online reports.

The retailer buys goods or products in large quantities from manufacturers or importers, either directly or through a wholesaler, and then sells individual items or small quantities to the general public or end user customers, usually in a shop, also called store. Retailers are at the end of the supply chain. Marketers see retailing as part of their overall distribution strategy.

Shops may be on residential streets, or in shopping streets with little or no houses, or in a shopping center or shopping mall. Shopping streets may or may not be for pedestrians only. Shopping is buying things, sometimes as a recreational activity.

Module Description

Imperial Retail Super Market Administration System mainly consists four modules ...

1. Stock
2. Staff
3. Customer
4. Reports.

Stock Details: This module is used to maintain the various products available in the store. Each product available in the store should be classified under a product category. This module is accessible to only admin type of users.

Staff Details: This module is used to maintain the total staff details.

Reports:

1. Excellent quality of output for Reports
2. All frequently used reports at the click of a button
3. All reports can be previewed, printed, exported to Excel/Word etc., or can be faxed or emailed

Customers – Has restricted access. i.e., customers have access to some of the modules only i.e. user can see the complete detailed list of products and can order online. Customers need to register before placing an order in the supermarket application. Customers can access their account which is created by admin to see the information about the supermarket and can place any feedback information about the customer facilities and maintenance to the admin.

2.2 Development Environment

1. Software Requirements

Operating System	:	Windows XP/2003 or Linux/Solaris
User Interface	:	HTML, CSS
Client-side Scripting	:	JavaScript
Programming Language	:	Java
Web Applications	:	JDBC, JNDI, Servlets, JSP
IDE/Workbench	:	Eclipse with MyEclipse Plug-in
Database	:	Oracle/Access
Server Deployment	:	RetHat JBoss AS

2. Hardware Requirements

Processor	:	Pentium IV
Hard Disk	:	40GB
RAM	:	256MB

2.3 Execution Environment

1. Client Side Requirements

Operating System	:	Windows XP/2003 or Linux/Solaris
User Interface	:	HTML, CSS
Client-side Scripting	:	JavaScript
Programming Language	:	Java
Web Applications	:	JDBC, JNDI, Servlets, JSP
IDE/Workbench	:	Eclipse with MyEclipse Plug-in
Database	:	Oracle/Access
Server Deployment	:	RetHat JBoss AS

2. Server Side Requirements

Processor	:	Pentium IV
Hard Disk	:	40GB
RAM	:	256MB

2.4 Diagrams

UML Diagrams

Unified Modeling Language:

The Unified Modeling Language allows the software engineer to express an analysis model using the modeling notation that is governed by a set of syntactic semantic and pragmatic rules.

A UML system is represented using five different views that describe the system from distinctly different perspective. Each view is defined by a set of diagram, which is as follows.

User Model View:

This view represents the system from the users perspective.

The analysis representation describes a usage scenario from the end-users perspective.

Structural Model view:

In this model the data and functionality are arrived from inside the system.

This model view models the static structures.

Behavioral Model View:

It represents the dynamic of behavioral as parts of the system, depicting the interactions of collection between various structural elements described in the user model and structural model view.

Implementation Model View:

In this the structural and behavioral as parts of the system are represented as they are to be built.

Environmental Model View:

In this the structural and behavioral aspects of the environment in which the system is to be implemented are represented.

UML is specifically constructed through two different domains they are:

UML Analysis modeling, this focuses on the user model and structural model views of the system.

UML design modeling, which focuses on the behavioral modeling, implementation modeling and environmental model views.

Class Diagram

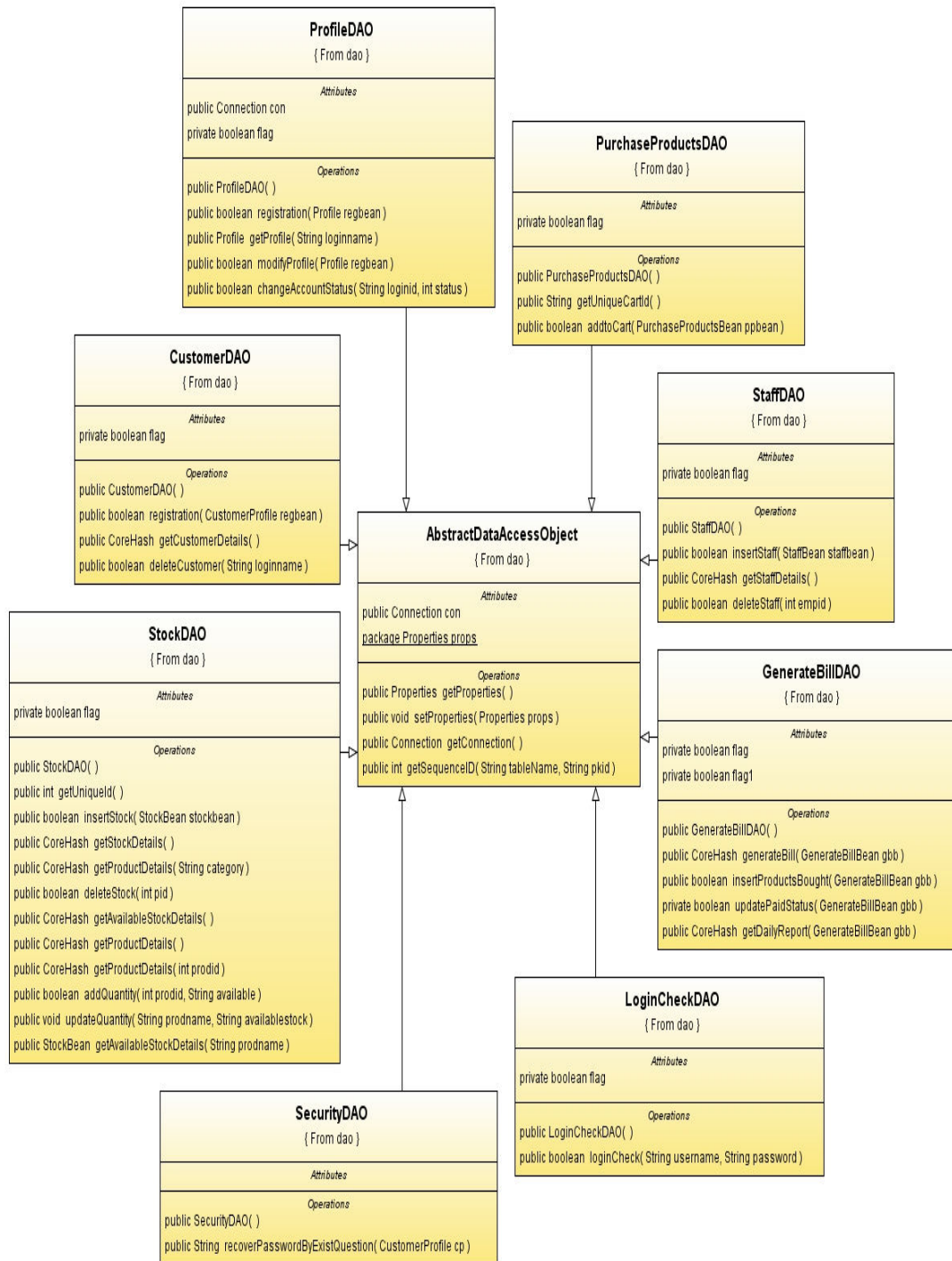


Fig: 2.4.1. Class diagram

Use-case Diagrams

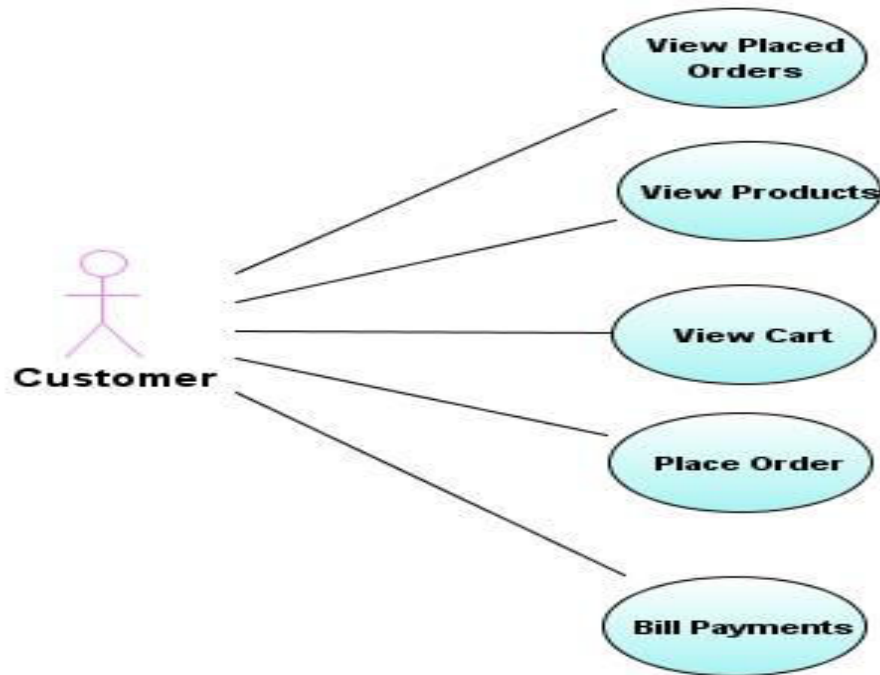


Fig: 2.4.2. Use case diagram for Customer.

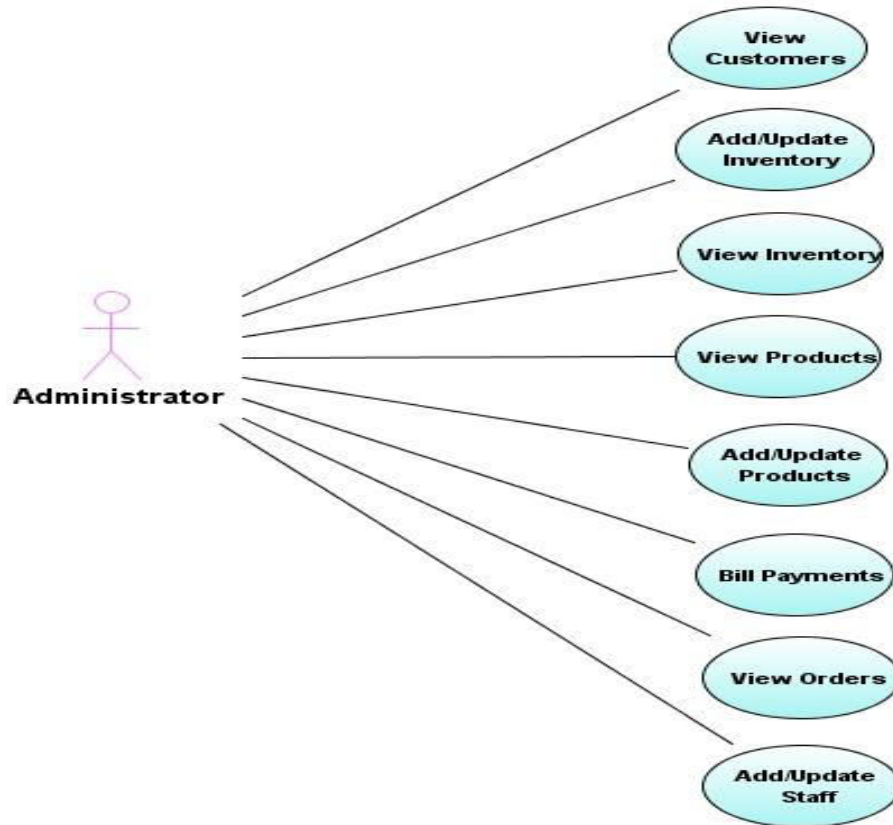


Fig: 2.4.3. Use case diagram for Administrator.

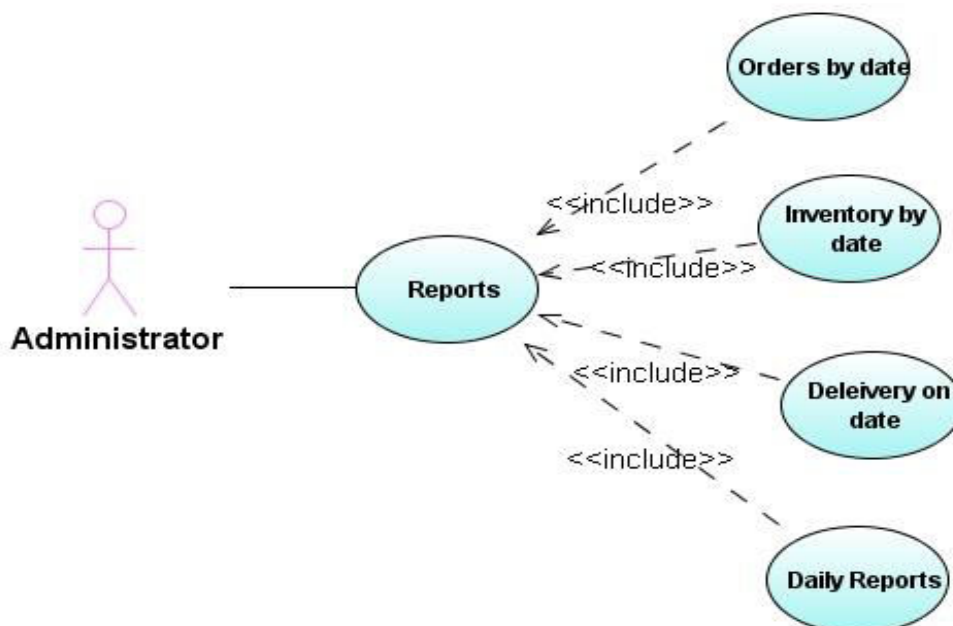


Fig: 2.4.4. Use case diagram for reports.

Sequence Diagrams

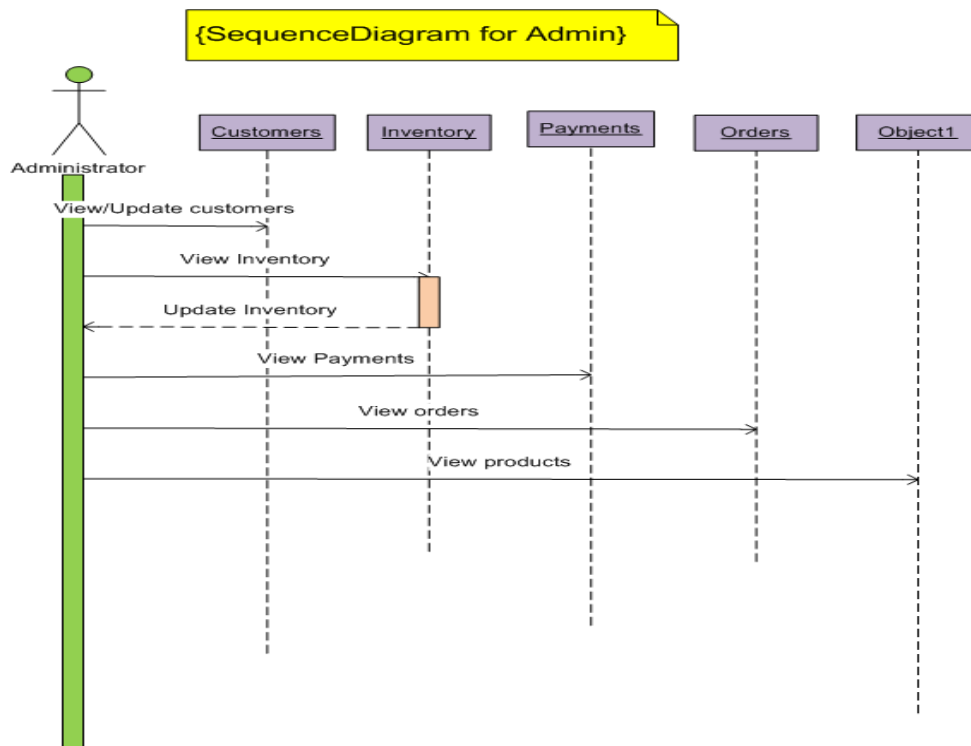


Fig: 2.4.5. Sequence diagram one for admin.

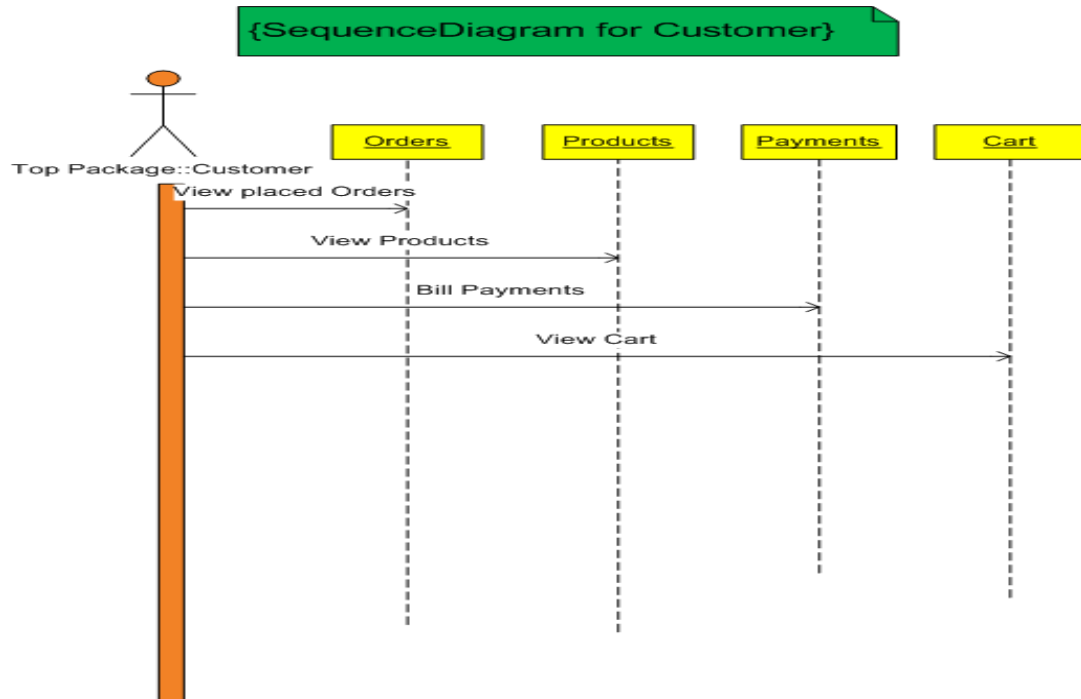


Fig: 2.4.6.Sequence Diagrams two for Customer.

Component Diagram

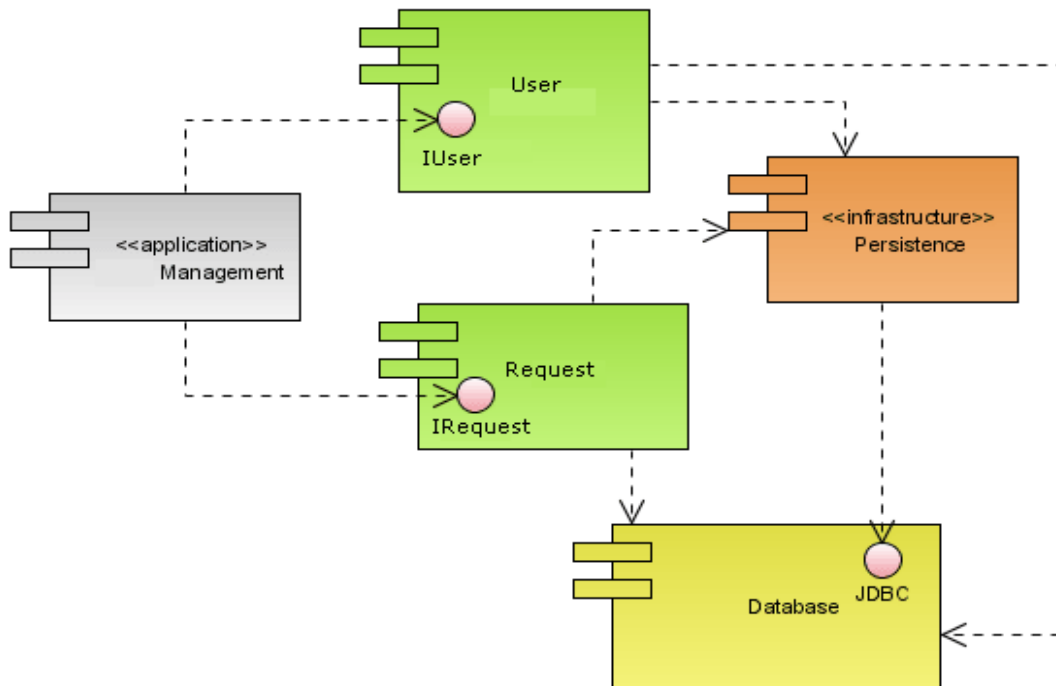


Fig: 2.4.7. Component diagram.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM

Deployment Diagram

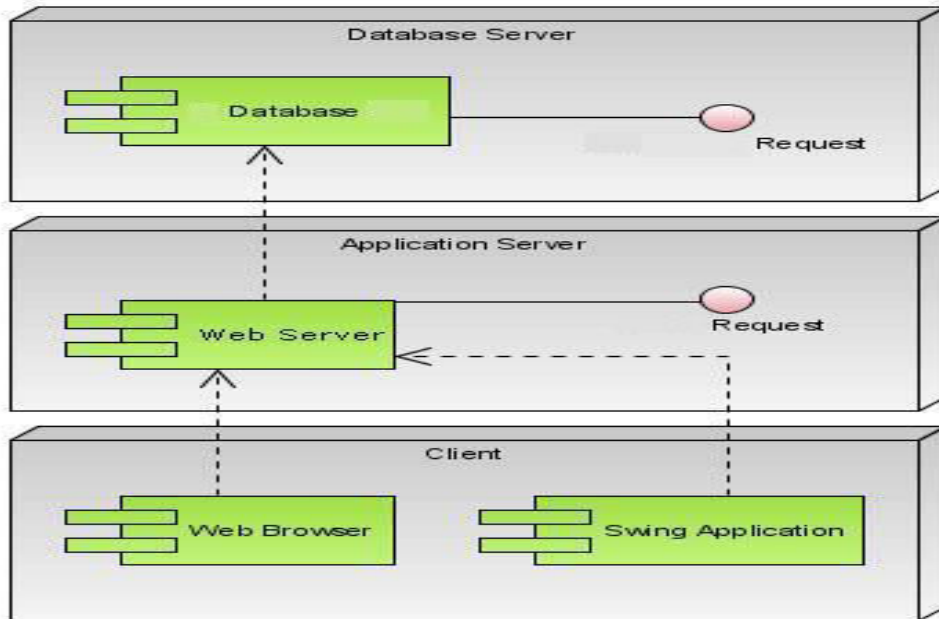


Fig: 2.4.8. Deployment diagram one.

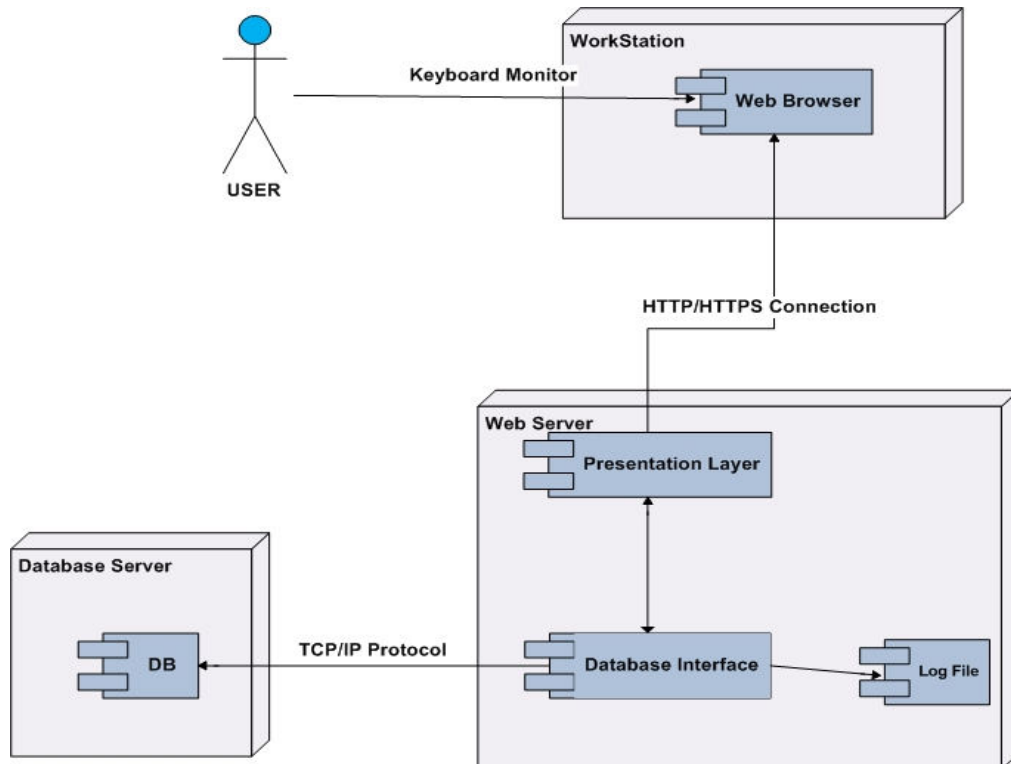


Fig: 2.4.9. Deployment diagram two.

2.5 Description of Interfaces

- i. **Front Tier:** This project is purely a web application. Each and every user expects a user friendly and attractive interface. In order to develop the interface we have used HTML, Jsp. The HTML language is static and it contains lot of built-in controls which are very helpful in designing the interface, so this has been used to develop the attractive environment. Jsp is used for the dynamic activity that takes place at the time of execution.
- ii. **Back Tier:** An Access database is a collection of data treated as a unit. The purpose of a database is to store and retrieve related information. A database server is the key to solving the problems of information management. In general, a server reliably manages a large amount of data in a multi-user environment so that many users can concurrently access the same data. All this is accomplished while delivering high performance.
- iii. **Communication Tier:** For any application it is mandatory to have a communication path between Front -end and Back-end. The Concept of JDBC is used for this specific purpose and the concept of RMI (Remote method Invocation) is used from invoking the methods located on the remote computer as this application is developed for distributed environment.
- iv. **Language Chosen:** As this being a web application there is possibility to use the same application in the variety of platforms. So the application should be platform independent. As we know that the JAVA is platform independent we have chosen JAVA language because of its platform independency nature. This language has enormous concepts which are helpful in developing the application in the distributed environment. So we have chosen JAVA language for developing this application.
- v. **Users of the System:** Presently the user of the system is only the administrator. The main intention here is to extend more number of users including the staff, customer located.

CHAPTER 3: DESIGN ASPECTS

3.1 Hierarchy Chart

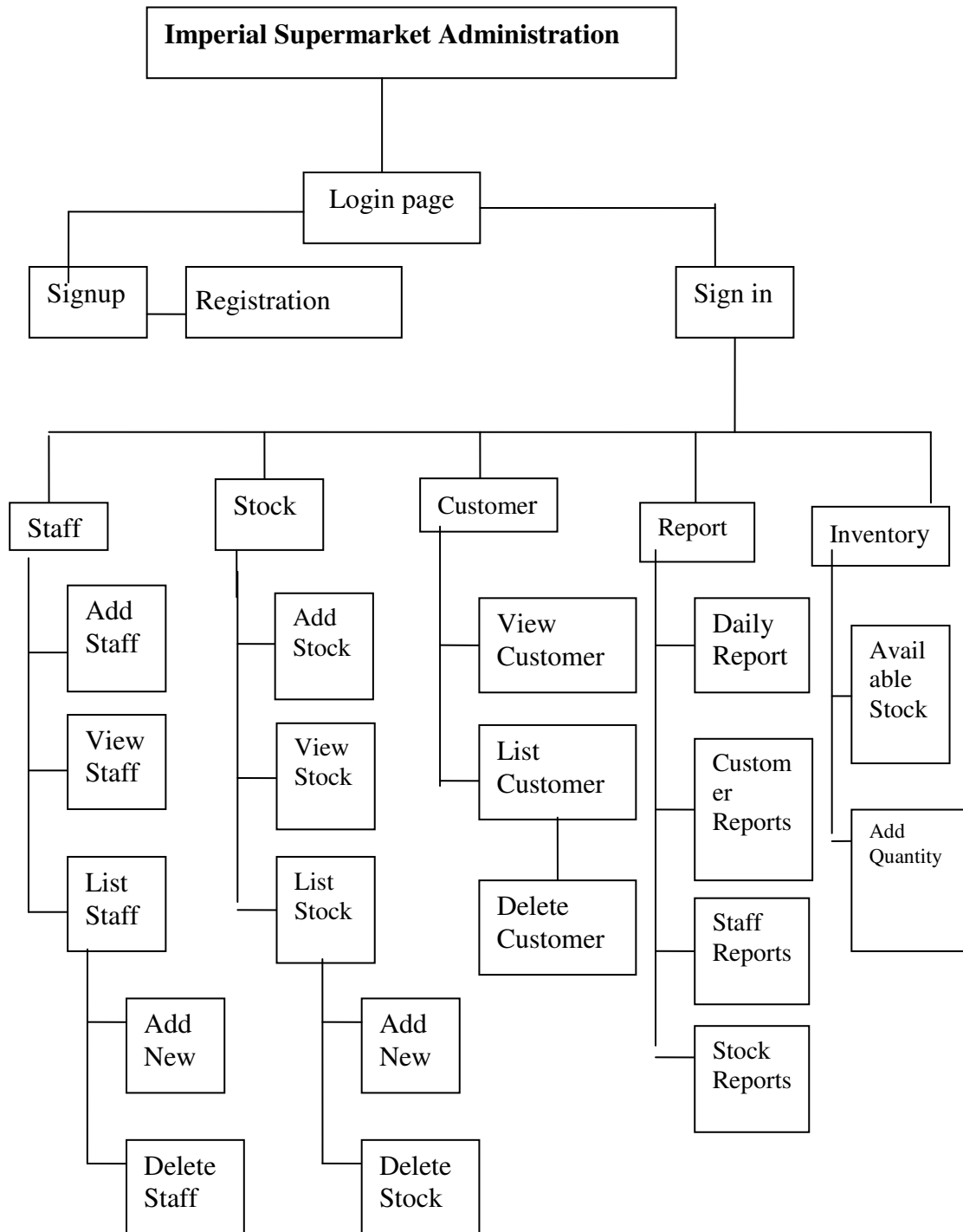


Fig 3.1-Imperial Retail Supermarket Administration System Hierarchy Chart

3.2 Description of the Tables in the Database

S. No	Table Name	Purpose
1	Admintable	To maintain admin details
2	Customerdetails	To maintain the customer details
3	Employeeetails	To maintain the Employee details
4	Productbought	To maintain the purchasing product details
5	Shoppingcort	To maintain the shopping details
6	Productlist	To maintain the product details

Fig: 3.2.1. Description of the Tables

3.3 Tables giving the test data:

Admin table:

Admin name	Admin password
Admin	admin
Bargav	bargav
Pandu	pandu
Suresh	reddy
Super	market

Table 3.3.1: Admin Table

ONLINE SUPER MARKET ADMINISTRATION SYSTEM

Employee details

Eid	Emp name	Designation	salary	Doj	Account no	Contact address	Phone no
1	udaykiran	Sales man	5000	1-3-08	3201	Filmnagar	9440125689
2	sreya	Manager	10000	30-4-08	2408	tankbund	9985577668
3	bargav	auditor	7000	2-2-08	5645	ameerpet	9965743424
4	suresh	Sales man	6000	3-1-08	3700	S.R.Nagar	9441236021
5	ishu	Sales girl	4500	2-4-08	5678	Sanath Nagar	9848984801

Table 3.3.2: Employee details Table

Product bought;

Custname	Grand total	Bought date
Pandu	2000	3-5-2008
Krishna	5000	7-5-2008
Jagan	3500	2-3-2008
Bargav	10000	21-4-2008
Suresh	6000	30-5-2008

Table 3.3.3: Product bought details Table

Productlist:

Product id	Product name	price	Category	Available stock
9	Fair&lovely	25	Beauty	30
10	Ring	5000	Jewelary	35
11	notebook	8	stationary	20
12	Nokia-6030	3500	stationary	10
13	Heater	210	Electronic	50

Table 3.3.4: Product list details Table

ONLINE SUPER MARKET ADMINISTRATION SYSTEM

Shoppingcart:

cart_id	custname	prodname	quantity	purchasedate	paid_status
4	Pandu	Fair&lovely	8	2-4-2008	Cash
6	Namitha	Notebook	5	5-3-2008	Check
5	Suresh	Nokia-6030	1	31-3-2008	Cash
7	Namitha	Pen	10	10-5-2008	Cash
8	Srikanth	Heater	1	15-2-2008	Cash

Table 3.3.5: Shopping cart details Table

Customerdetails:

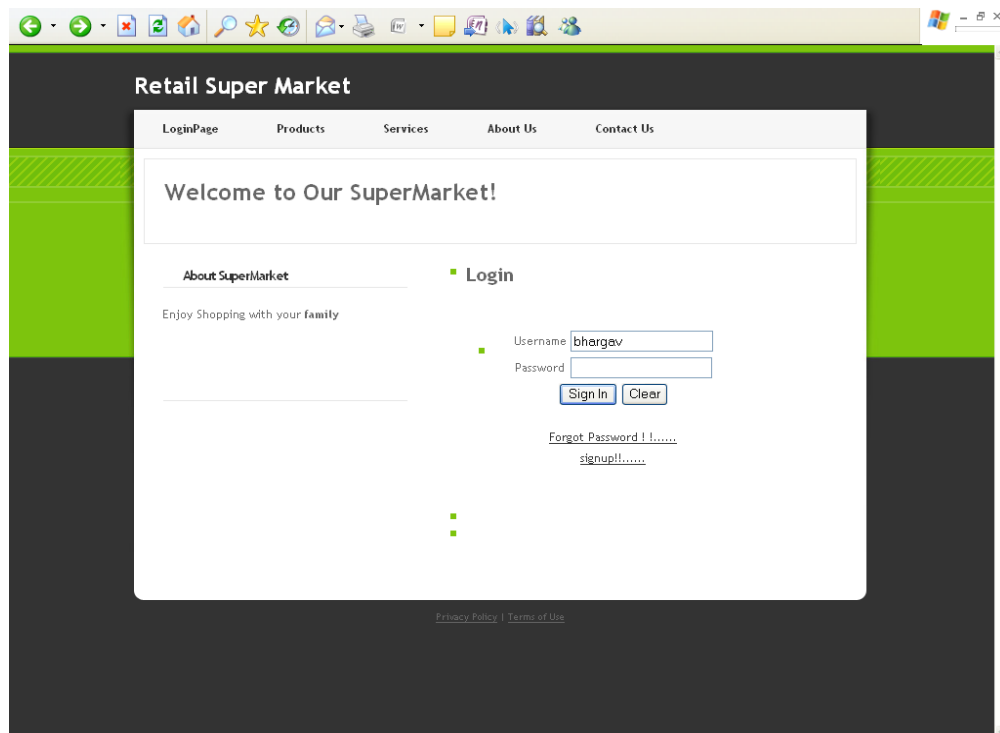
First name	Last name	Dob	city	state	Phno	e-mail	Login name
siva	boyana	1-1-2008	hyd	ap	9876543346	siva@siva.com	siva
babu	mega	5-2-2008	tpt	ap	9966523432	babu@gmail.com	babu
pandu	balla	10-4-2008	hyd	ap	9866543542	pandu@gmail.com	balla

Table 3.3.6: Customer details Table

3.4 Reports and Their Corresponding Tables

Reports	Table name
Product details	product
Staff details	employee
Stock details	Product
Product purchases	Customer,product,productbought
Customer details	Customer, product

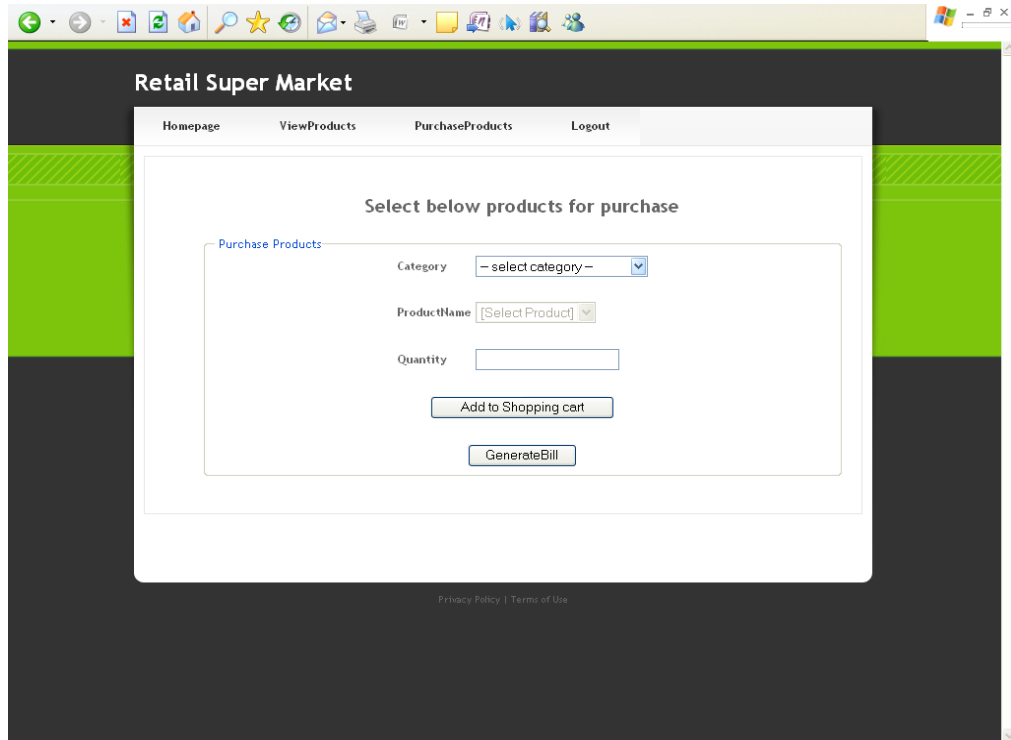
3.5 Forms / Reports and Their Description.



Screen:3.1. Login screen

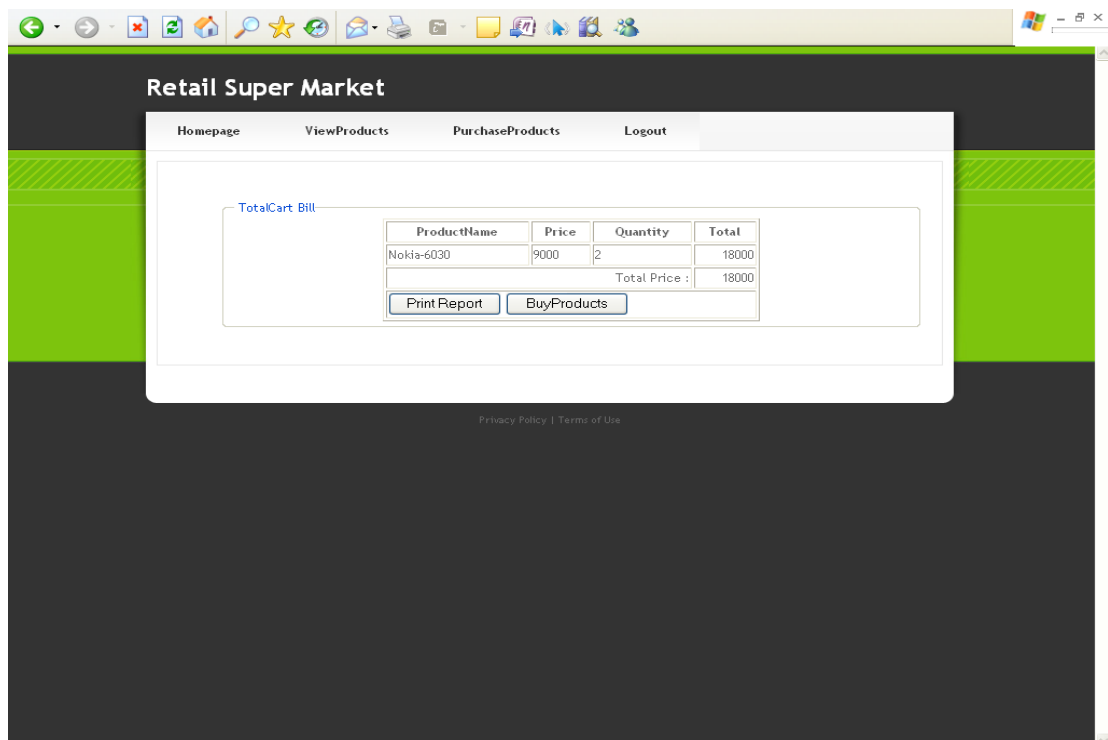
Purpose: customer login in to the System.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM



Screen :3.2 Products to purchasing Form

Purpose: This Screen Shows Selecting product to purchasing



Screen :3.3 CartBill Report.

Purpose: This report is providing Total CartBill.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM

Retail Super Market

Home Staff Stock Customer Inventory Reports Logout

Staff Details

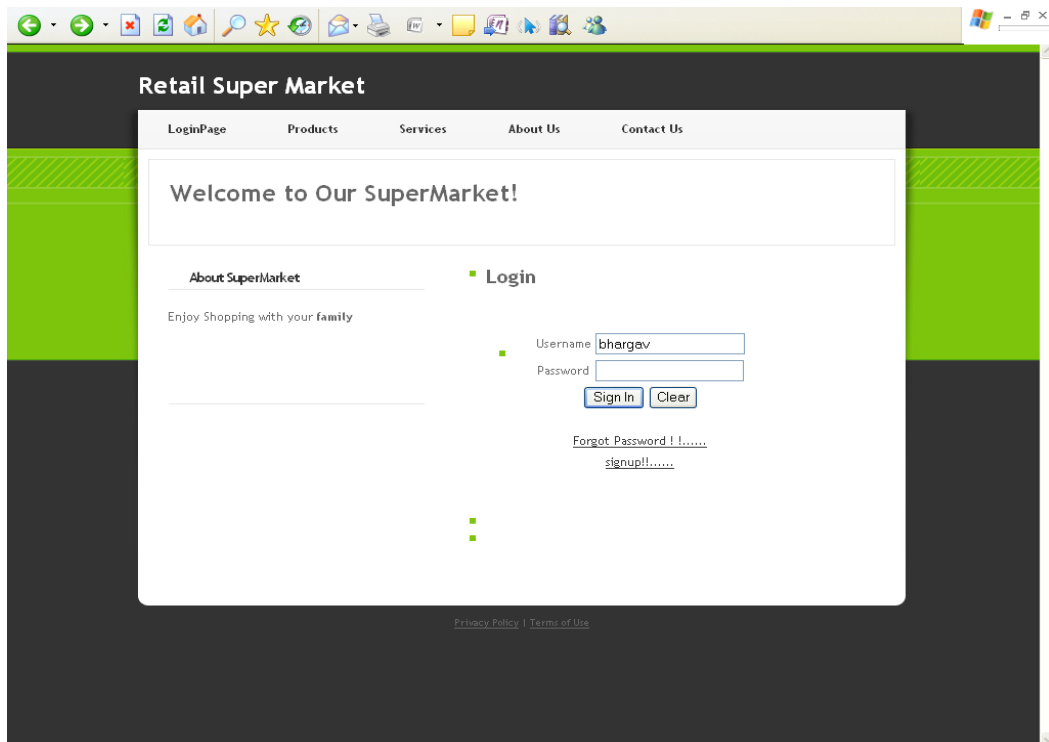
Employee No	EmployeeName	Designation	Salary	JoiningDate	AccountNo	ContactAddress	PhoneNo
9	Namitha	SalesGirl	500	1-1-2008	54235345	Filmnagar	9676876545
8	Anushka	SalesGirl	500	1-1-2008	53453255	Filmnagar	9874656264
7	Genelia	SalesGirl	500	1-1-2008	42314245	Filmnagar	9845654655
6	Sreya	SalesGirl	500	1-1-2008	42343244	Filmnagar	9787979778
5	Trisha	SalesGirl	500	1-1-2008	12345678	Filmnagar	9988776655
4	varma	auditor	9000	4-2-2008	1234	tankbund	1122334455
3	sivakumar	marketing	5000	5-11-2007	2972	Madhapur	9955886622
2	bhargav	manager	10000	1-1-2008	1111	YusafGuda	9247102708
10	Aishwarya	SalesGirl	500	1-1-2008	64536546	Filmnagar	9345478535
1	UdayKumar	salesman	1000	3-12-2007	3695	ameerpet	924720369

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Screen:3.4.Staff details Report.

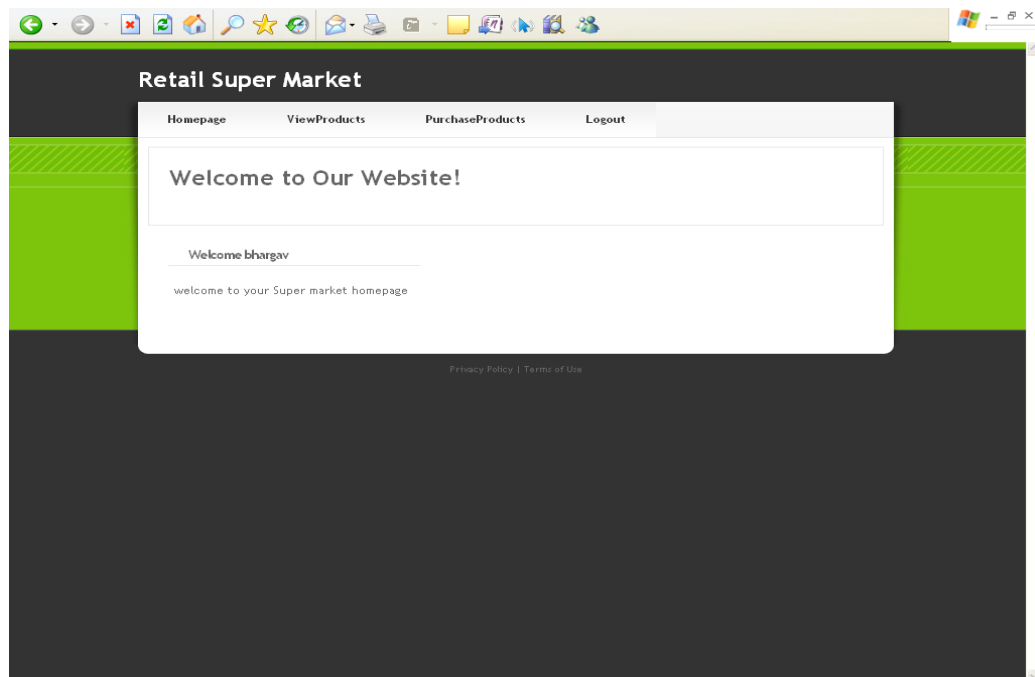
Purpose: This report is providing total staff details.

CHAPTER 4: WALKTHROUGH



Screen: 4.1.User login page

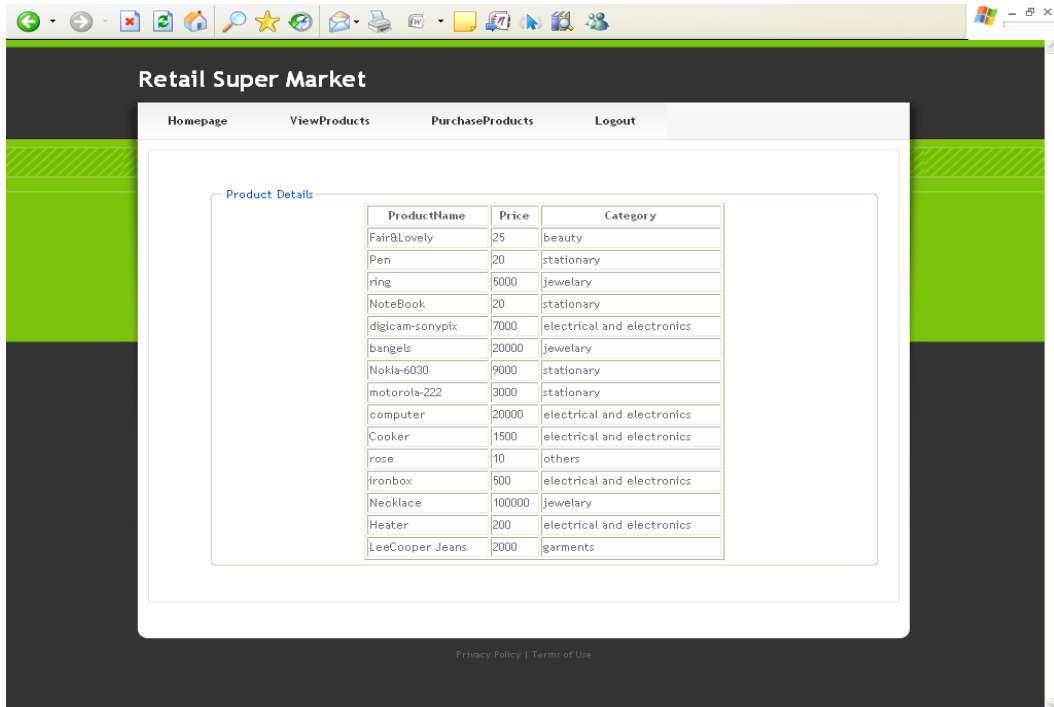
Purpose: This Screen is used to user login into the System.



Screen: 4.2 Home page

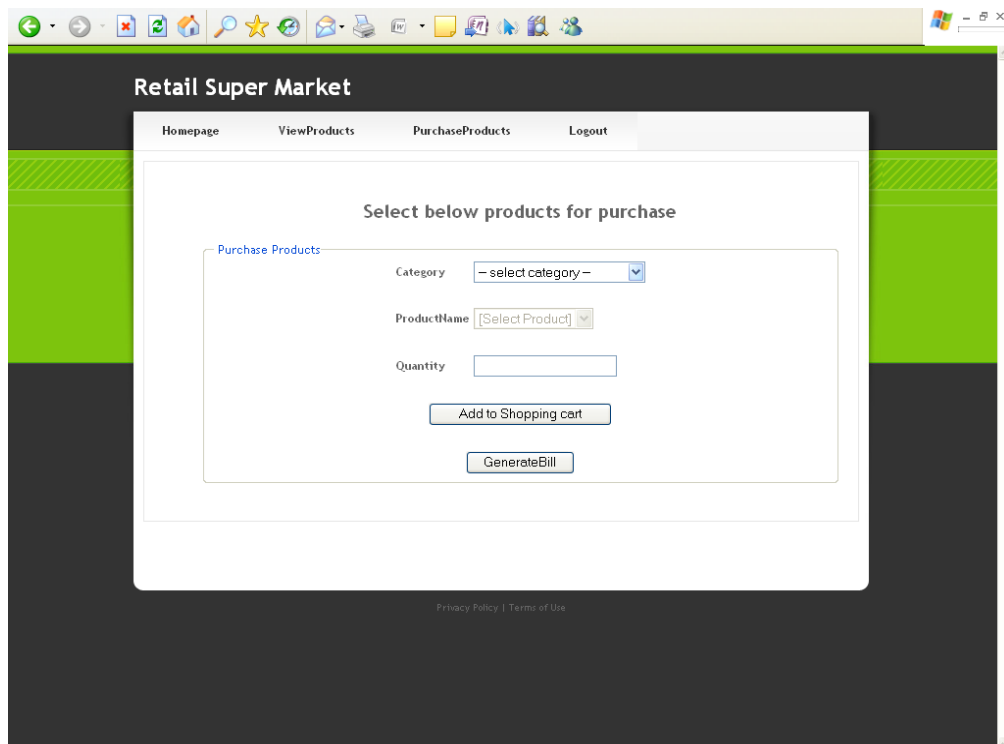
Purpose: This Screen Shows Home page of the Retail SuperMarket.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM



Screen: 4.3. Product details

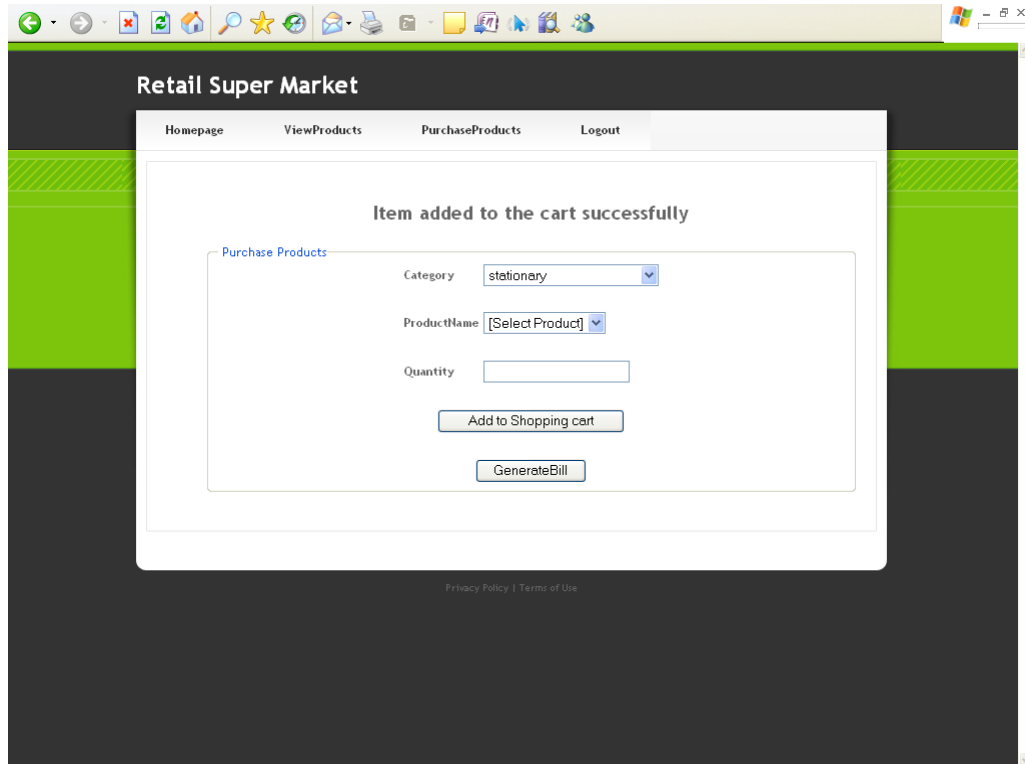
Purpose: This Screen Shows Total Product details.



Screen: 4.4. Selecting the products to purchasing

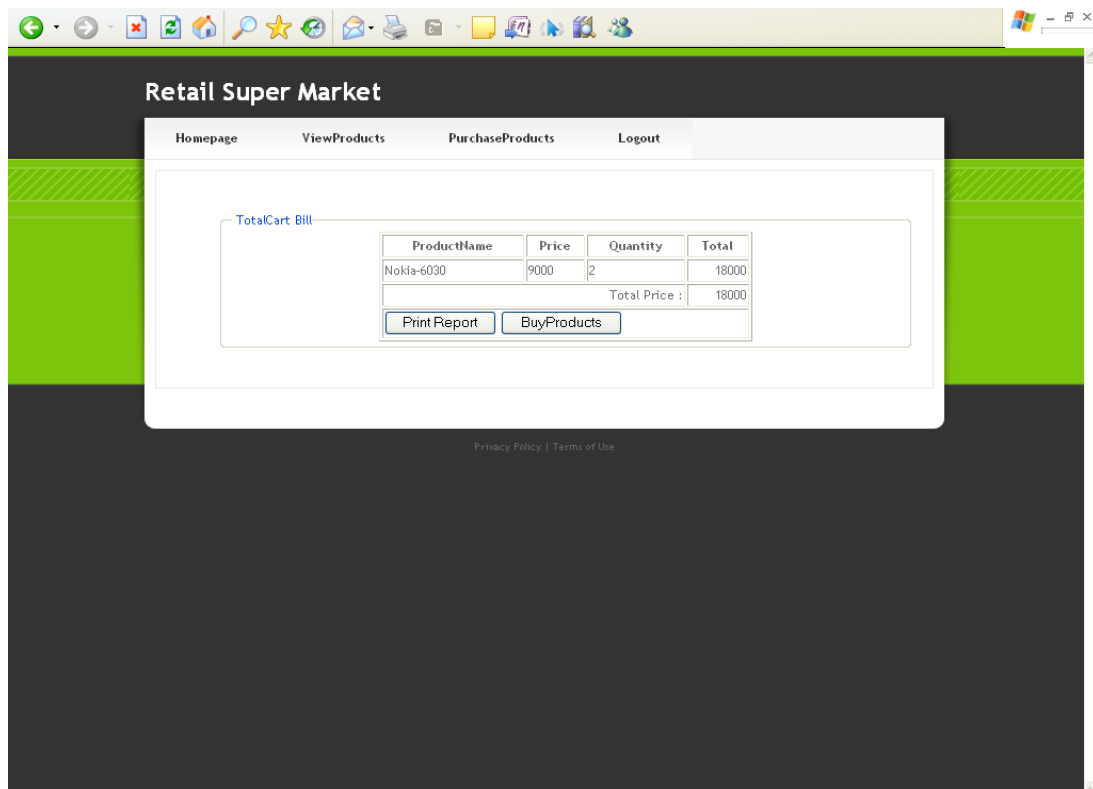
Purpose: This Screen is used selecting the products to purchasing.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM



Screen: 4.5 Items added to the Shopping cart

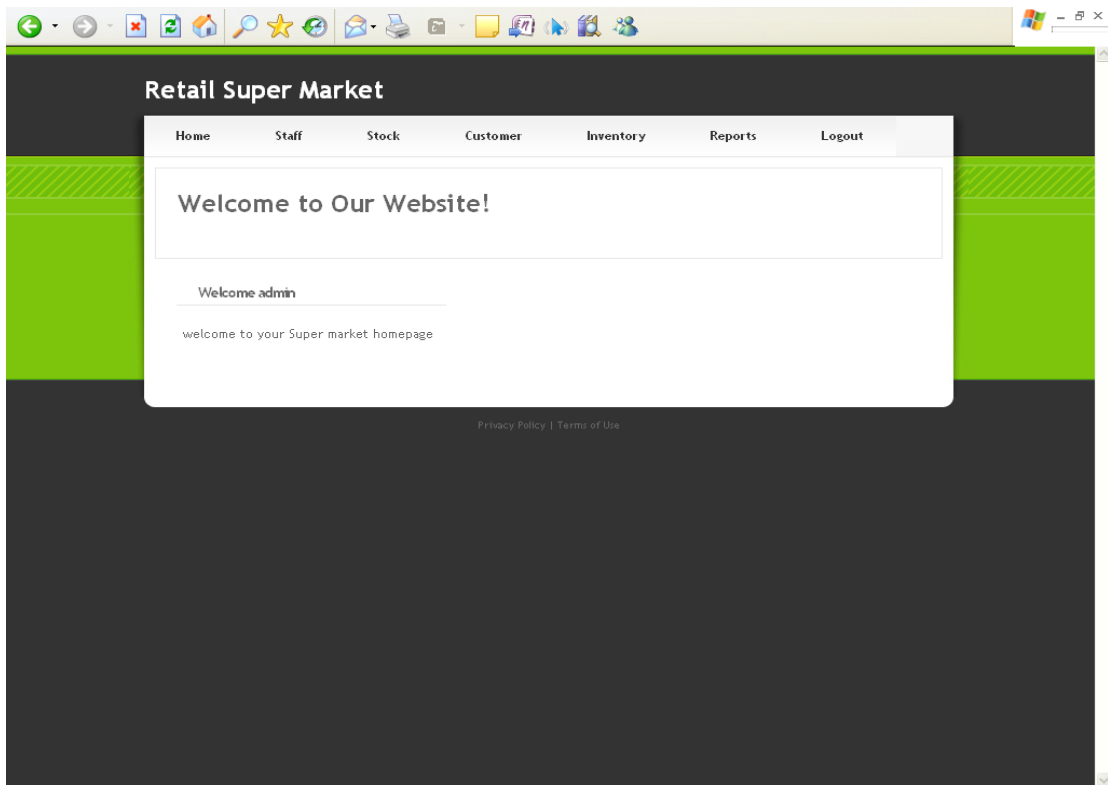
Purpose: This Screen is Used to adding the items in to Shopping cart.



Screen: 4.6 Generating the total cart bill

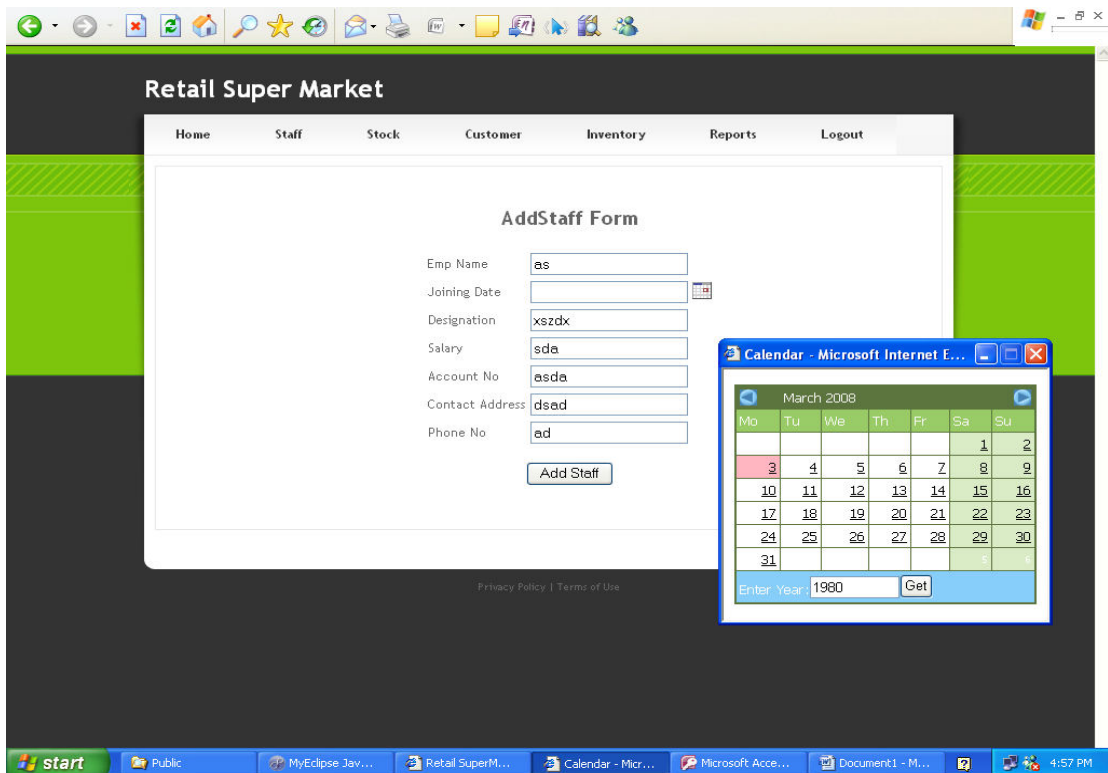
Purpose: This Screen is used to providing the total cart bill to customer.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM



Screen: 4.7 Admin home page

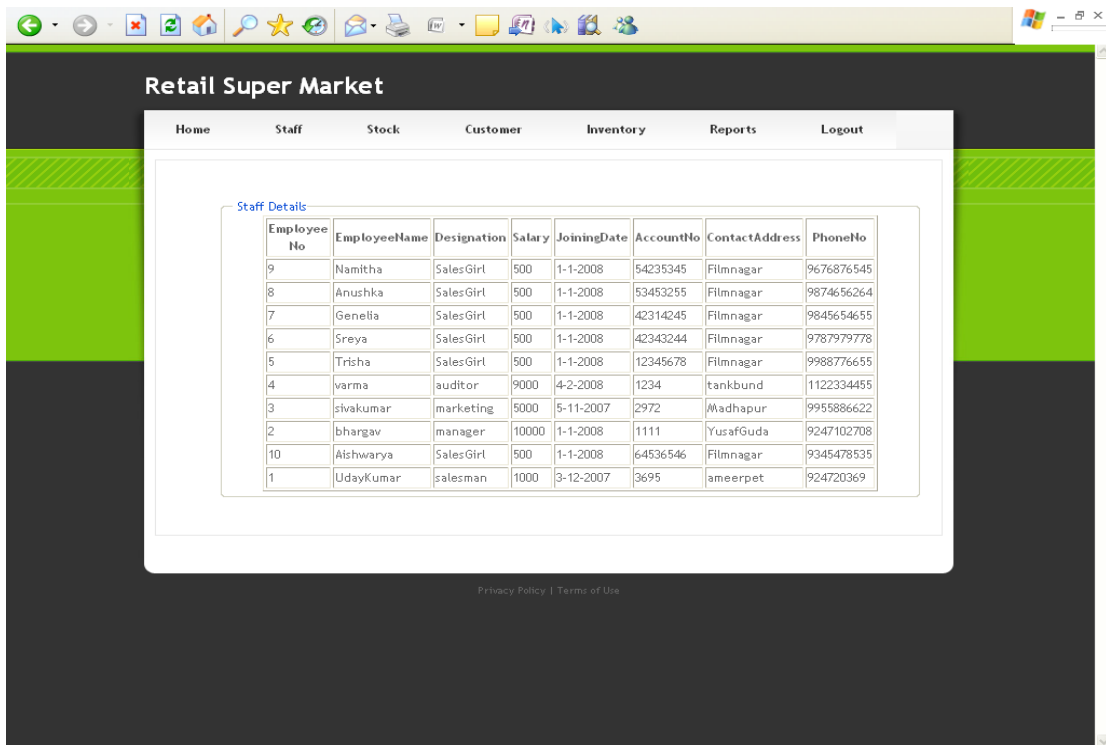
Purpose: This Screen shows administrator home page.



Screen: 4.8 adding the new staff

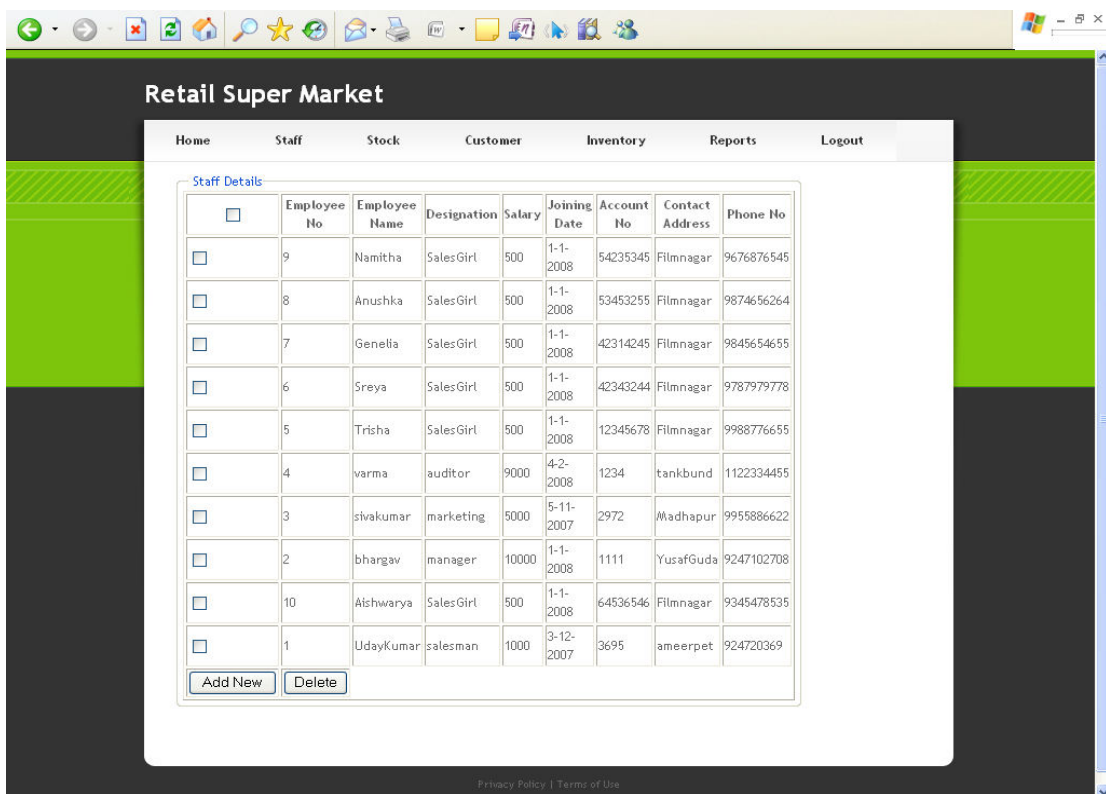
Purpose: This Screen is used to adding the new staff.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM



Screen: 4.9 total view staff details

Purpose: This Screen is Used to show the total staff details.



Screen: 4.10 Add or deleting the staff

Purpose: This Screen is Used to add or deleting the staff from the staff list.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM

Retail Super Market

Home Staff Stock Customer Inventory Reports Logout

AddStock Form

Product Name

Price

Category

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Screen: 4.11 adding the stock

Purpose: This Screen is used to adding the new stock.

Retail Super Market

Home Staff Stock Customer Inventory Reports Logout

Stock Details

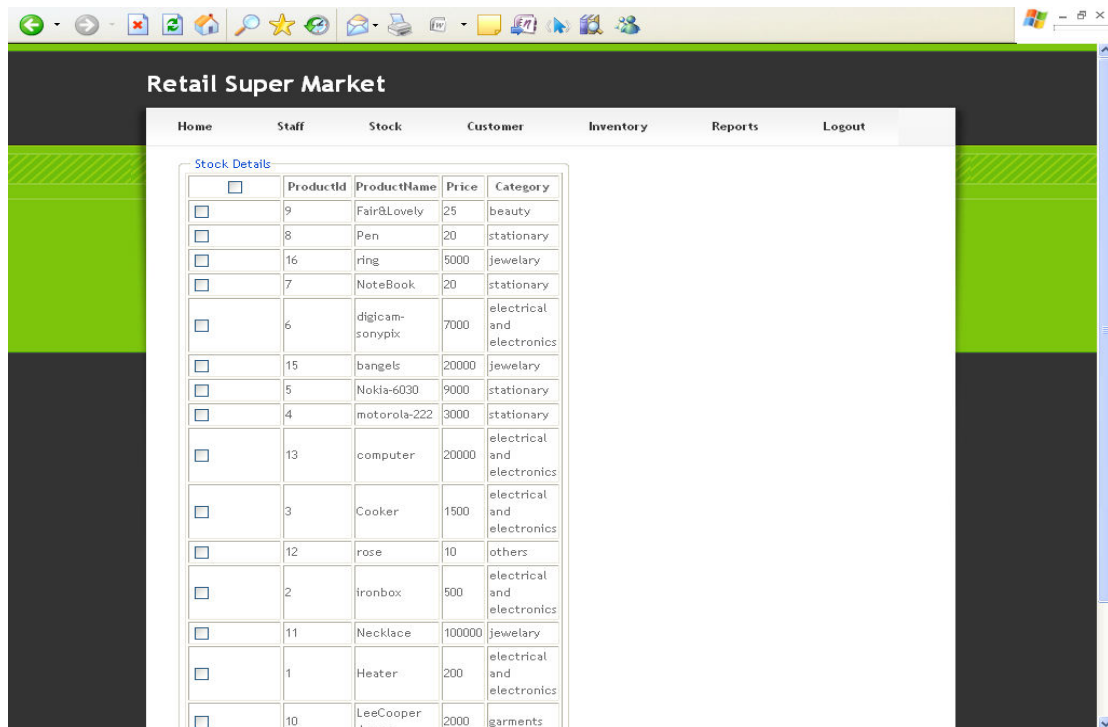
Productid	ProductName	Price	Category
9	Fair&Lovely	25	beauty
8	Pen	20	stationary
16	ring	5000	jewelry
7	NoteBook	20	stationary
6	digicam-sonytpx	7000	electrical and electronics
15	bangels	20000	jewelry
5	Nokia-6030	9000	stationary
4	motorola-222	3000	stationary
13	computer	20000	electrical and electronics
3	Cooker	1500	electrical and electronics
12	rose	10	others
2	ironbox	500	electrical and electronics
11	Necklace	100000	jewelry
1	Heater	200	electrical and electronics
10	LeeCooper Jeans	2000	garments

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Screen: 4.12. Stock details

Purpose: This Screen is used to show the total stock details.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM

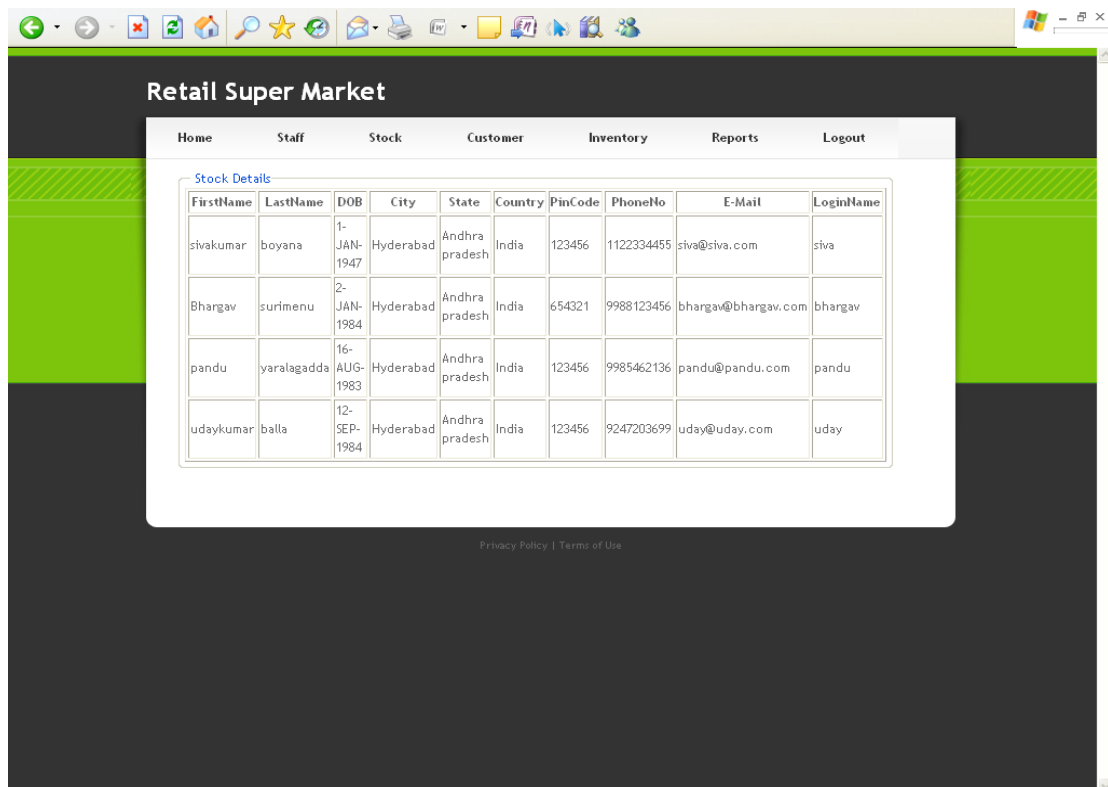


The screenshot shows a web browser window with the title "Retail Super Market". The navigation menu includes Home, Staff, Stock, Customer, Inventory, Reports, and Logout. The "Stock" menu item is selected, displaying a table titled "Stock Details".

<input type="checkbox"/>	ProductId	ProductName	Price	Category
<input type="checkbox"/>	9	Fair&Lovely	25	beauty
<input type="checkbox"/>	8	Pen	20	stationary
<input type="checkbox"/>	16	ring	5000	jewelry
<input type="checkbox"/>	7	NoteBook	20	stationary
<input type="checkbox"/>	6	digicam-sonypix	7000	electrical and electronics
<input type="checkbox"/>	15	bangels	20000	jewelry
<input type="checkbox"/>	5	Nokia-6030	9000	stationary
<input type="checkbox"/>	4	motorola-222	3000	stationary
<input type="checkbox"/>	13	computer	20000	electrical and electronics
<input type="checkbox"/>	3	Cooker	1500	electrical and electronics
<input type="checkbox"/>	12	rose	10	others
<input type="checkbox"/>	2	ironbox	900	electrical and electronics
<input type="checkbox"/>	11	Necklace	100000	jewelry
<input type="checkbox"/>	1	Heater	200	electrical and electronics
<input type="checkbox"/>	10	LeeCooper	2000	garments

Screen: 4.13. List of stock

Purpose: This Screen is Used to shows the total stock list.



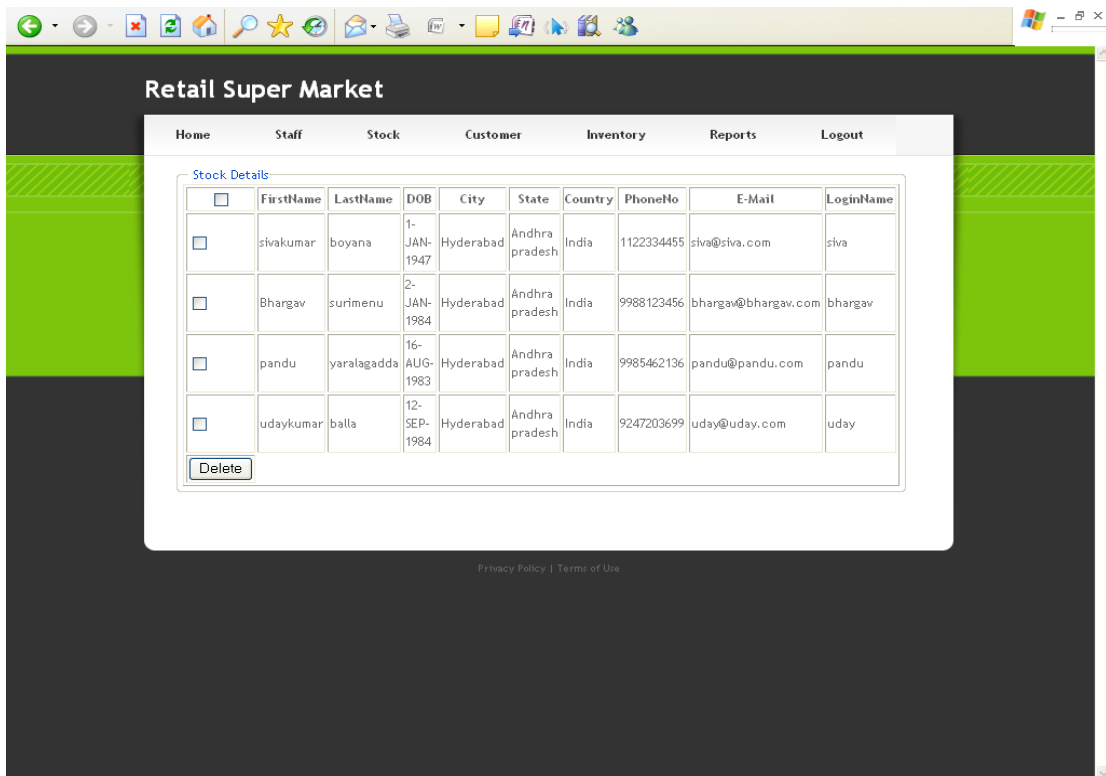
The screenshot shows a web browser window with the title "Retail Super Market". The navigation menu includes Home, Staff, Stock, Customer, Inventory, Reports, and Logout. The "Customer" menu item is selected, displaying a table titled "Customer Details".

FirstName	LastName	DOB	City	State	Country	PinCode	PhoneNo	E-Mail	LoginName
sivakumar	boyana	1- JAN- 1947	Hyderabad	Andhra pradesh	India	123456	1122334455	siva@siva.com	siva
Bhargav	surimenu	2- JAN- 1984	Hyderabad	Andhra pradesh	India	654321	9988123456	bhargav@bhargav.com	bhargav
pandu	yaralagadda	16- AUG- 1983	Hyderabad	Andhra pradesh	India	123456	9985462136	pandu@pandu.com	pandu
udaykumar	balla	12- SEP- 1984	Hyderabad	Andhra pradesh	India	123456	9247203699	uday@uday.com	uday

Screen: 4.14. Customer details report.

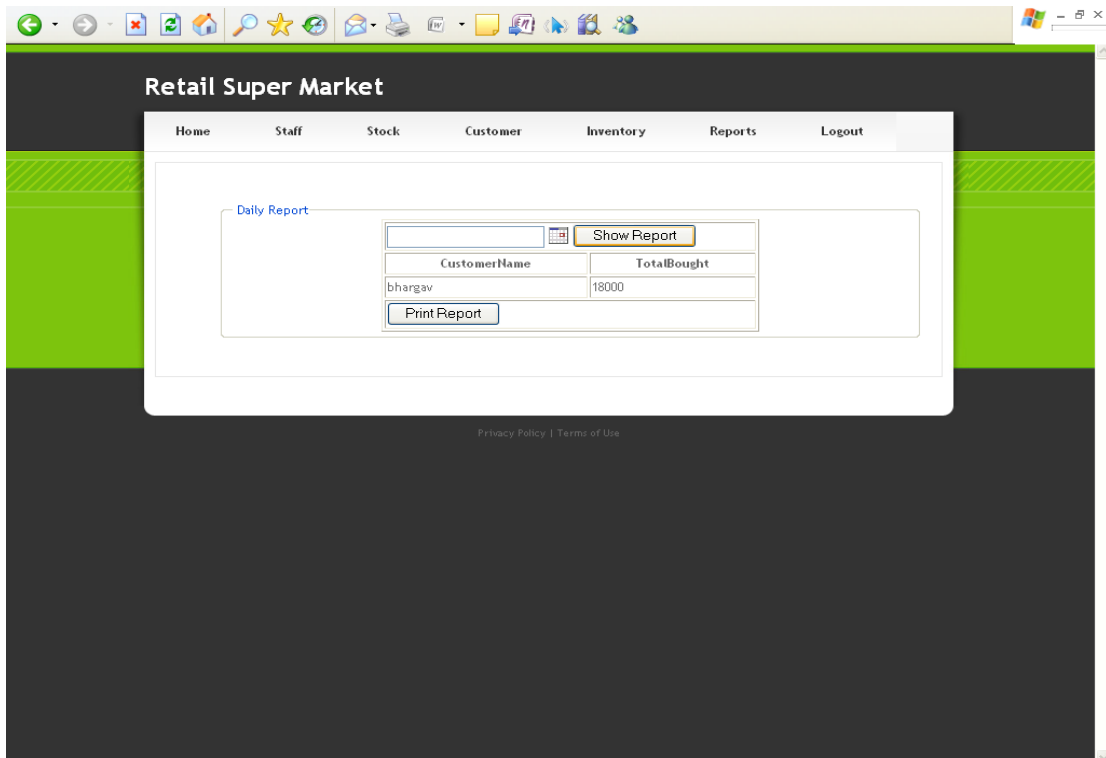
Purpose: This Screen is shows total customer details.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM



Screen: 4.15. Customer list report.

Purpose: This Screen is shows deleting the customer after purchasing the items



Screen: 4.16. Daily customer reports

Purpose: This Screen is shows daily customer reports.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM

Staff Details

Employee No	Employee Name	Designation	Salary	Joining Date	Account No	Contact Address	Phone No
9	Namitha	SalesGirl	500	1-1-2008	54235345	Filmnagar	9676876545
8	Anushka	SalesGirl	500	1-1-2008	53453255	Filmnagar	9874656264
7	Genelia	SalesGirl	500	1-1-2008	42314245	Filmnagar	9845654655
6	Sreya	SalesGirl	500	1-1-2008	42343244	Filmnagar	9787979778
5	Trisha	SalesGirl	500	1-1-2008	12345678	Filmnagar	9988776655
4	varma	auditor	9000	4-2-2008	1234	tankbund	1122334455
3	shivakumar	marketing	5000	5-11-2007	2972	Madhapur	9955886622
2	bhargav	manager	10000	1-1-2008	1111	YusafGuda	9247102708
10	Aishwarya	SalesGirl	500	1-1-2008	64536546	Filmnagar	9345478535
1	UdayKumar	salesman	1000	3-12-2007	3695	ameerpet	924720369

Print Report

Screen: 4.17. View the staff details.

Purpose: This Screen is shows total available staff.

Stock Details

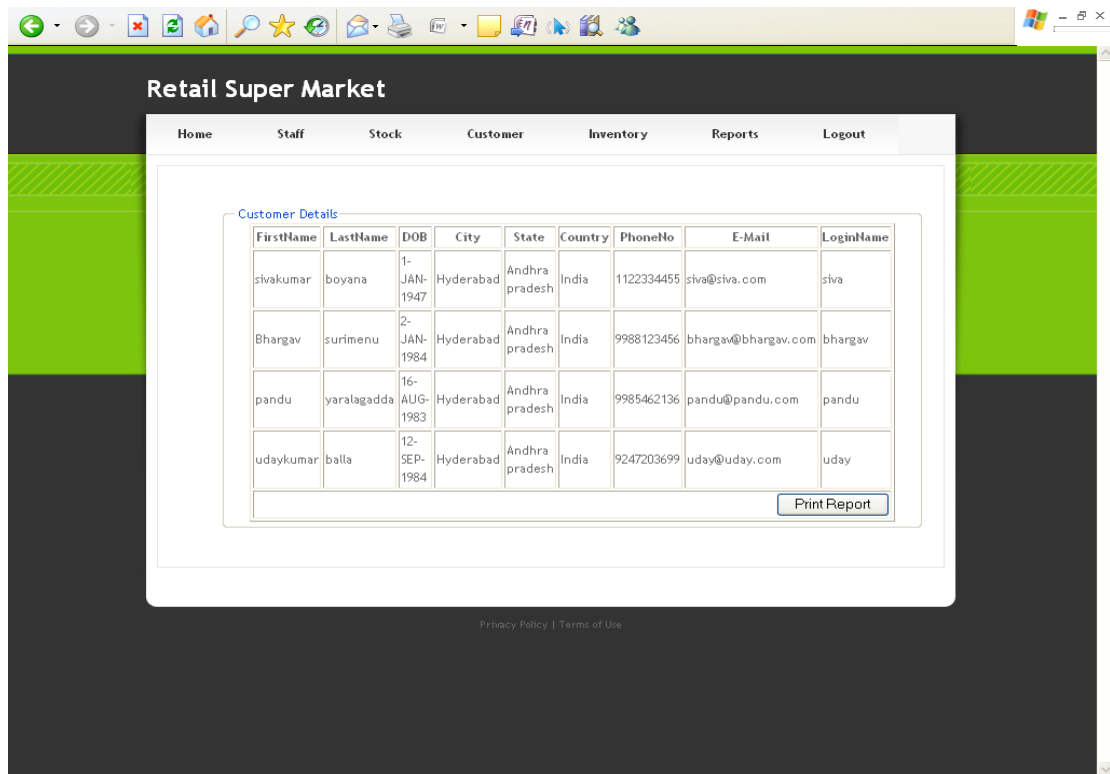
ProductId	ProductName	Price	Category
9	Fair&Lovely	25	beauty
8	Pen	20	stationary
16	ring	5000	jewelary
7	NoteBook	20	stationary
6	digicam-sonypix	7000	electrical and electronics
15	bangels	20000	jewelary
5	Nokia-6030	9000	stationary
4	motorola-222	3000	stationary
13	computer	20000	electrical and electronics
3	Cooker	1500	electrical and electronics
12	rose	10	others
2	ironbox	500	electrical and electronics
11	Necklace	100000	jewelary
1	Heater	200	electrical and electronics
10	LeeCooper Jeans	2000	garments

Print Report

Screen: 4.18. View the stock details

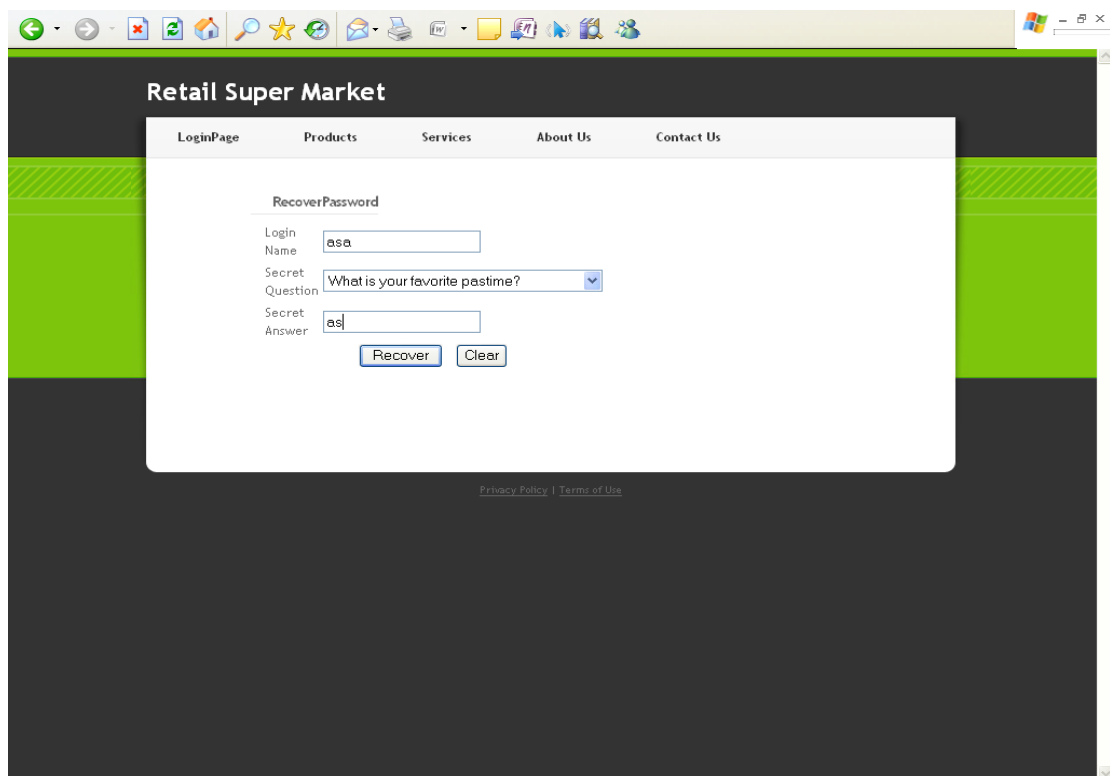
Purpose: This Screen is used to show the available stock in the Shopping cart.

ONLINE SUPER MARKET ADMINISTRATION SYSTEM



Screen: 4.19. View the customer details

Purpose: This Screen is used to show the Customer details.



Screen: 4.20. Recovering the password.

Purpose: This Screen is used to recovering the password using Secret answer.

Retail Super Market

LoginPage Products Services About Us Contact Us

Registration

First Name:

Last Name:

Birth Date:

House No:

Street:

City:

State:

Country:

Pincode:

Contact No:

Email:

Login Name:

Password:

Secret Question:

Secret Answer:

Creditcard Number:

Calendar - Microsoft Internet E...
March 2008

Mo	Tu	We	Th	Fr	Sa	Su
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Enter Year:

start Public MyEclipse Jav... Retail MuperM... Calendar - Mcr... Microsoft Acce... Document1 - M... 5:00 PM

Screen: 4.21.registration form

Purpose: This Screen is used to adding the new customer.

CHAPTER 5: CONCLUSIONS

The **Imperial Retail Supermarket Administration System** is a web-based application for primarily providing training to the employees who provide customized solutions to meet organizational needs.

This application software has been developed successfully and was also tested successfully by taking “test cases”. It is user friendly, and has required options, which can be utilized by the user to perform the desired operations.

The software is developed using Java as front end and MS-Access/Oracle as back end in Windows environment.

5.1 Goals That Are Met:

1. Instant access.
2. Improved productivity.
3. Optimum utilization of resources.
4. Efficient management of records.
5. Simplification of the operations.
6. Less processing time and getting required information.
7. User friendly.
8. Portable and flexible for further enhancement.

5.2 Conclusion Remarks:

Limitations of the system:

1. System works in all platforms and its compatible environment.
2. Advanced techniques are not used to check the authorization.

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