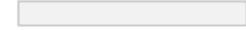


**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY  
VADODARA**



**E-Bazaar**



# E - Bazaar

**Group - 21**

Project Report

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# **Introduction**

## **1.1 Overview**

The ‘Online E-commerce Web application’ Services department strives to provide solutions to develop and transfer easy and efficient ways in the digital age and to help reduce human pressure and time. To help support shop collections, digital initiatives, and external partner institution digital projects, It provides services that include the digitization of analog objects, metadata management, digital preservation, and discovery and access of digital collections. “Shop Management System” is a web application written for all operating systems, designed to help users maintain and organize shops virtually. This software is easy to use for both beginners and advanced users. It features a familiar and well-thought-out, attractive user interface. The report generation facility of the shop system helps to get a good idea of which are the various items brought by the members, making it possible to get the product easily.

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## **1.2 Background Study**

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing websites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace. The objective of this project is to develop a general-purpose e-commerce store where any product (such as books, CDs, computers, mobile phones, electronic items, and home appliances) can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online e - commerce store. An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be

presented as an order. At that time, more information will be needed to complete the transaction.

## **1.3 Project Planning**

Project planning is part of project management, which relates to the use of schedules such as Gantt charts to plan and subsequently report progress within the project environment. Initially, the project scope is defined and the appropriate methods for completing the project are determined. Following this step, the durations for the various tasks necessary to complete the work are listed and grouped into a work breakdown structure. The logical dependencies between tasks are defined using an activity network diagram that enables the identification of the critical path. Float or slack time in the schedule can be calculated using project management software. Then the necessary resources can be estimated and costs for each activity can be allocated to each resource, giving the total project cost. At this stage, the project plan may be optimized to achieve the appropriate balance between resource usage and project duration to comply with the project objectives. Once established and agreed upon, the plan becomes what is known as the baseline. Progress will be measured against the baseline throughout the life of the project.

## **1.4 Purposes**

The project is about handling all the information of the shop regarding members. Also, it manages resources that were managed and handled by manpower previously. The main purpose of the project is to integrate distinct sections of the shop in a consistent manner so that complex functions can be handled smoothly. The project aims at the following matters

- Automation of product manipulation.
- Buying products.
- To manage information of different types of items.
- Consistently update the information of all the items.
- Managing security by providing authorized email & passwords. Manages databases efficiently.

# System Design

## 2.1 Design

There are three modules (Customer, Vendor, Admin) each with their respective functions and The system is divided into some parts : the Register system, Login System, , Buying System, Viewing System side with the database representing the server using Java, Java Servlet, MYSQL, and APACHE with tomcat server.

### CUSTOMER MODULE

- Login/Register
- Buy product and view/manage the cart
- View Previous login details
- View Shopping History

### ADMIN MODULE

- Login
- View the registered users
- Add a Product Category
- View sales record
- View Products tables

### VENDOR MODULE

- Login/Register
- Register the Product
- View/edit the stocks
- View the sales history

## **2.2 User Characteristics**

**Admin** The administrator has all the rights to access the system. He is the one who has all rights to view the members and product details, modify those details. Admin can also view the details of a member.

**Users**, The user can log in to the system by using his specific email and password. Users can view the products and order the products according to their own needs. He can view his profile.

## **2.3 System Information**

This system is an automated Shop Management System. Through the software, users can add members, add products, search products, update information, edit information, and buy the product in a quick time. The system has the following advantages:

- User-friendly interface
- Fast access to the database
- Search facility
- Look and Feel Environment

## **2.4 System Analysis**

System Analysis refers to the process of examining a situation with the intent of improving it through better procedures and methods. System Analysis is the process of planning a new system to either replace or complement an existing system. But before any planning is done the old system must be thoroughly understood and the requirements determined. System analysis is, therefore, the process of gathering and interpreting facts, diagnosing problems, and using the information to re-comment improvements in the system. System analysis is conducted with the following objectives in mind:

- Evaluate the system concept for feasibility.
- Perform economic and technical analysis.
- Allocate functions to hardware, software people, database, and other system elements.
- Establish cost and schedule constraints.
- Create a system definition that forms the foundation for all the subsequent engineering work.

## **2.5 Feasibility Analysis**

Whatever we think need not be feasible. It is wise to think about the feasibility of any problem we undertake. Feasibility is the study of impact, which happens in the organization by the development of a system. The impact can be either positive or negative. When the positives nominate the negatives, then the system is considered feasible. Here the feasibility study can be performed in two ways such as technical feasibility and Economical Feasibility.

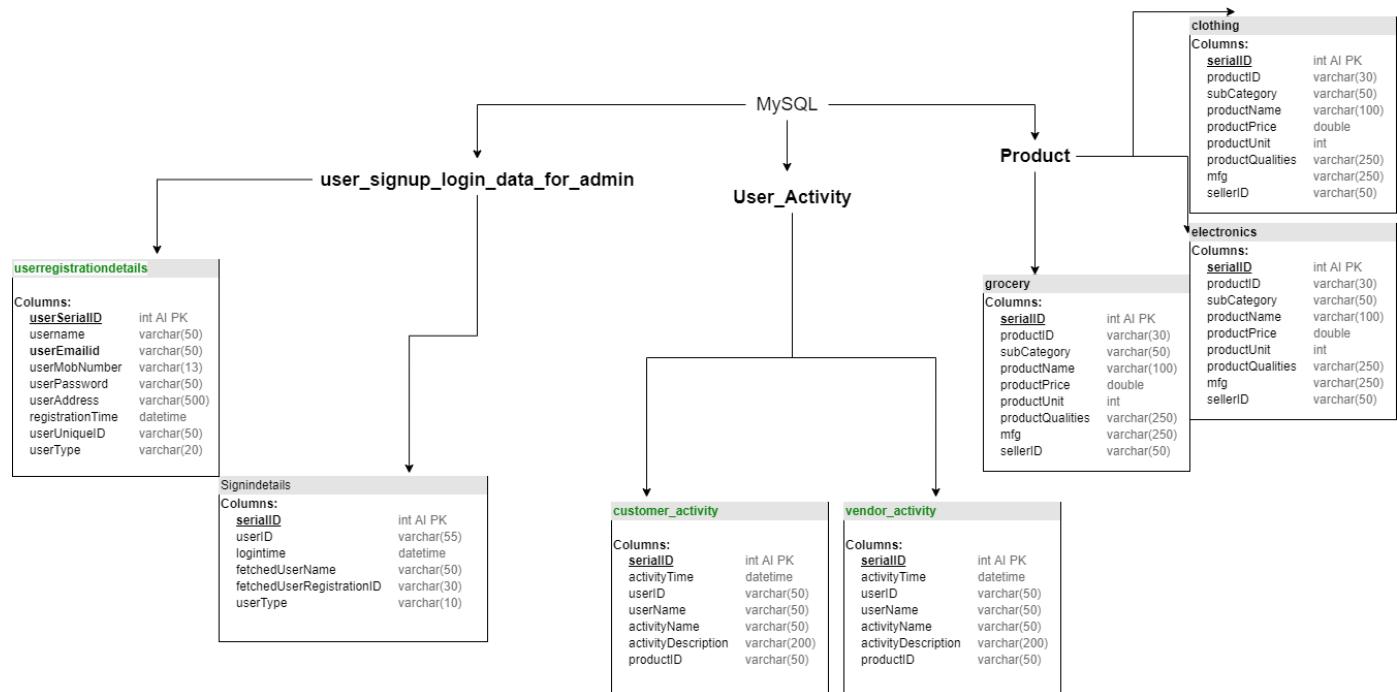
## Technical Feasibility

It is technically feasible since there will not be much difficulty in getting the required resources for the development and maintaining the system as well. All the resources needed for the development of the software as well as the maintenance

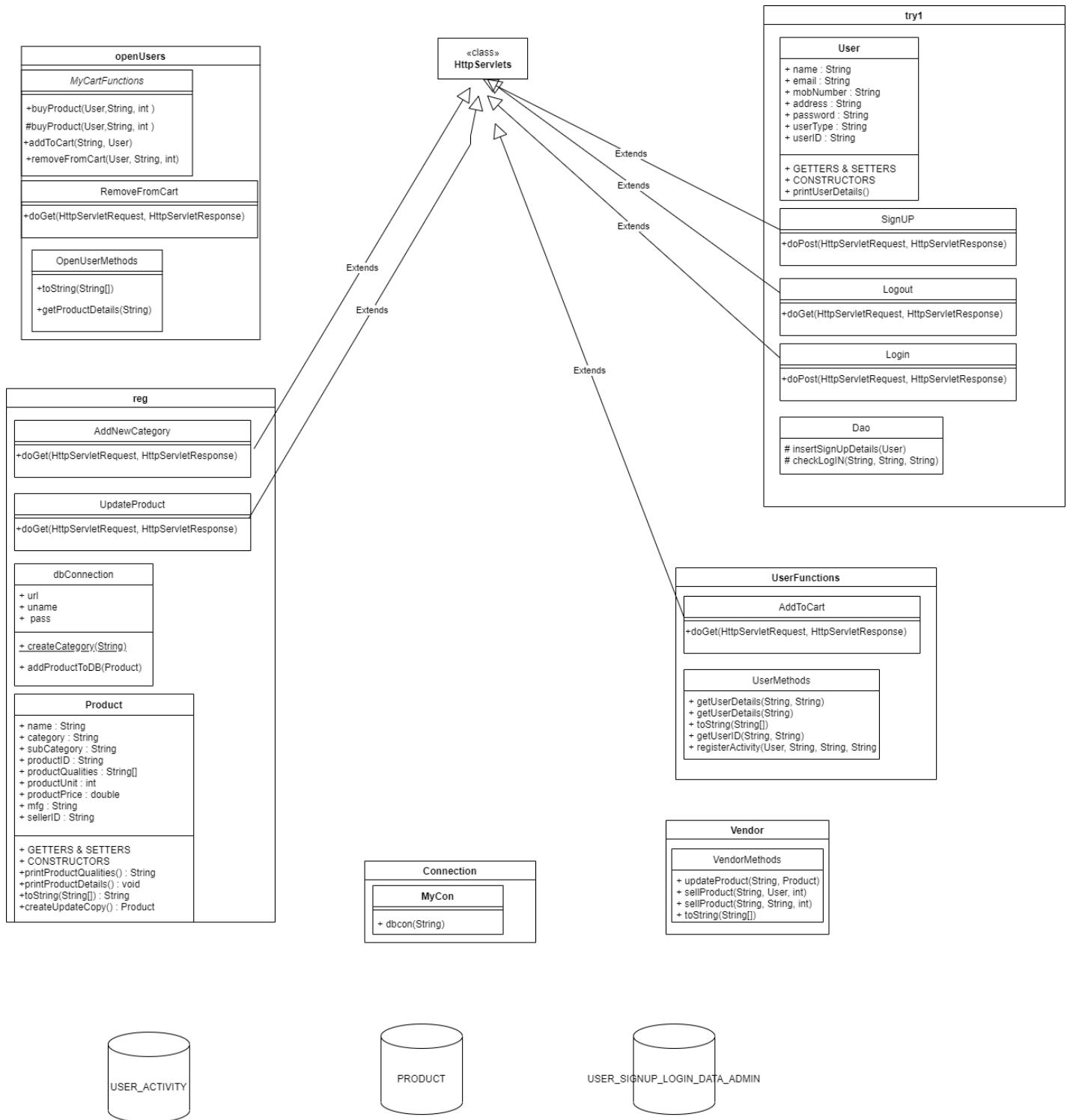
## Economical Feasibility

The development of this application is highly economically feasible. The organization needed not to spend much more on the development of the system already available. The only thing to be done is to make an environment for development with effective supervision. If we are doing so, we can attain the maximum usability of the corresponding resources . Even after the development, the organization will not be in a condition to invest more in the organization. Therefore, the system is economically feasible.

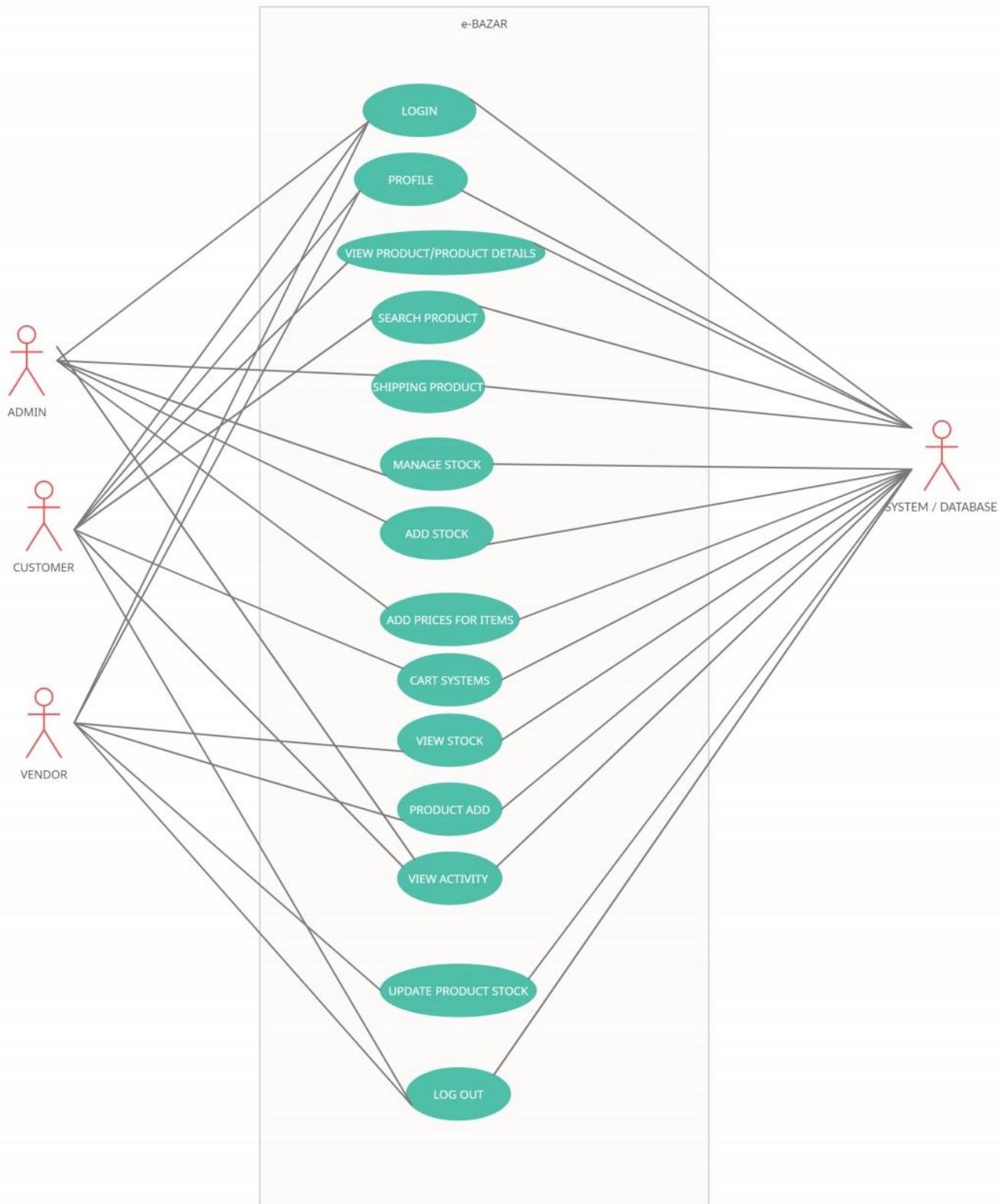
## Structures And Diagrams : Database Structure



# Structures And Diagrams : Class Diagram



# Structures And Diagrams : User Case Diagram (UML Diagram)



# **Programming languages used**

We have used Java and JSP's for Backend Support, HTML, CSS and JavaScript for Frontend Support and for Database We have used MySQL.

## **Object Oriented concepts used till now**

We have used the concepts of Abstraction, encapsulation, Inheritance, Polymorphism and error handling in the Project.

## **Hardware and software Requirements**

### **3.1 Hardware Required**

- Processor: //
- RAM: 2GB or above
- Hard Disk: 50GB or above
- Input Devices: Keyboard, Mouse
- Output Devices: Monitor

### **3.2 Software Required**

Operating System: Linux, Ubuntu, Mac, Windows XP, 7, 8, 8.1, 10

Software Used: Eclipse EE

Frontend : Java-Servlet,CSS, Bootstrap, JavaScript

Backend: JAVA, MySQL

Localhost: Apache Tomcat - 9

## **Screenshots of E - Bazaar Website**

# Appearance Of Admin Page:

## 4.1 Appearance Of Customer Page:

Welcome! customer21  
Email Id : customer21@gmail.com  
Userid : CUSTOMER21

**Recent Purchase history**

Activity Time	Activity Description	ProductId
2021-12-25 21:39:00	1 pieces from VENDOR1	ELECTRONICS_LAPTOP2
2021-12-22 09:56:51	1 pieces from VENDOR9	CLOTHING_T_SHIRT11
2021-12-22 09:56:15	1 pieces from VENDOR9	CLOTHING_T_SHIRT11
2021-12-20 20:29:55	1 pieces from null	CLOTHING_Suit2
2021-12-20 20:29:55	1 pieces from VENDOR1	ELECTRONICS_LAPTOP3

**Recent Login history**

Activity Time	Activity
2021-12-20 22:38:07	LOGGEDIN
2021-12-29 23:37:38	LOGGEDIN
2021-12-29 21:48:48	LOGGEDIN
2021-12-26 21:36:28	LOGGEDIN
2021-12-22 09:55:31	LOGGEDIN

**Clothing**

**T-SHIRT5**  
S34 311512399  
Elegant & Beautiful  
JK & Sons ALLAHABAD  
Product ID: CLOTHING\_T\_SHIRT5

**T-SHIRT6**  
S30 16218713  
Elegant & Beautiful  
JK & Sons ALLAHABAD  
Product ID: CLOTHING\_T\_SHIRT6

**T-SHIRT7**  
S70 16504422  
Elegant & Beautiful  
JK & Sons ALLAHABAD  
Product ID: CLOTHING\_T\_SHIRT7

**T-SHIRT8**  
S8 351712867  
Elegant & Beautiful  
JK & Sons ALLAHABAD  
Product ID: CLOTHING\_T\_SHIRT8

**Product Name**      **Quantity**      **Price**      **Subtotal**  
**T-SHIRT7**  
JK & Sons ALLAHABAD  
Qualities  
      **75.16065422**      total price  


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**Subtotal**      \$200  
**Tax**      \$20  
**Total**      \$200

## 4.2 Appearance Of Vendor Page:

**Log In**  
login here using your email and password

Customer     Vendor     Admin

**Recent Login history**

Activity Time	Activity
2021-12-20 19:35:01	1 pieces to CUSTOMER22
2021-12-20 18:23:50	1 pieces to CUSTOMER22
2021-12-20 18:23:29	1 pieces to CUSTOMER22

**Product Registration Page**

Sr.No.	ProductID	SubCategory	Name	Price	Unit	Qualities	MFG	Update
10	CLOTHING_TSHTN10	T-SHIRT	T-SHRT10	80.76347259	29	Elegant, Beautiful	JK & Sons ALLAHABAD	<button>Update</button>
21	CLOTHING_PANTS21	PANTS	PANTS21	74.30000000	100	Elegant, Beautiful	JK & Sons ALLAHABAD	<button>Update</button>
26	CLOTHING_PANTS26	PANTS	PANTS26	18.01000815	73	Elegant, Beautiful	JK & Sons ALLAHABAD	<button>Update</button>
35	CLOTHING_PANTS35	PANTS	PANTS35	62.11724619	89	Elegant, Beautiful	JK & Sons ALLAHABAD	<button>Update</button>
36	CLOTHING_PANTS36	PANTS	PANTS36	50.71604524	7	Elegant, Beautiful	JK & Sons ALLAHABAD	<button>Update</button>

**Update Product**

Sr.No.	ProductID	SubCategory	Name	Price	Unit	Qualities	MFG	Update
11	GROCERY_BHUIYA11	BHUIYA	BHUIYA11	5.513	969	Unknown	Suryani	<button>Update</button>
17	GROCERY_BHUIYA17	BHUIYA	BHUIYA17	15.0	868	This was new.	MFG15	<button>Update</button>
44	GROCERY_FLOUR44	FLOUR	FLOUR44	21.6065863	308	RUBBISH44	MFG31	<button>Update</button>
58	GROCERY_NAMKEEN58	NAMKEEN	NAMKEEN58	9.419524941	457	RUBBISH58	MFG24	<button>Update</button>

## Conclusions and Future Enhancements

### Conclusion

This project is only a humble venture to satisfy the needs of a shop. Several user-friendly coding has also been adopted. This package shall prove to be a powerful package in satisfying all the requirements of the organization. The objective of software planning is to provide a framework that enables the manager to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

This website provides a computerized version of the shop manipulates system which will benefit the users as well as the visitor of the shop. It makes the entire process online where users can search for products, and buy the various products. Review user's activity and also give occasional discounts and also add info about different events for the customer.

## **5. Future aspect**

The project has a very vast scope in the future. The project can be implemented on the intranet in the future. The project can be updated in the near future as and when the requirement for the same arises, as it is very flexible in terms of expansion. With the proposed software of database Space Manager ready and fully functional, the client is now able to manage and hence run the entire work in a much better, accurate, and error-free manner. The following are the future scope for the project.

- Should be added payment gateway
- Can be added inventory management system
- Can be added multiple branches
- Can be added multilingual to this site
- And many features can be added to this project to make it more robust.

## **CONTRIBUTIONS:**

<b>SATYAM GUPTA</b>	<b>202051169</b>	<b>Project Planning, Combining Modules, Managing Team, MySQL, ClassDiagram</b>
<b>NAVEEN NAVEENN</b>	<b>202051126</b>	<b>User Registration Module, Project Report, MySQL</b>
<b>SRUSHTI RATHVA</b>	<b>202051183</b>	<b>Product Module, Product Registration, Adding+Updating category, PPT</b>
<b>VISHAL KUMAR SAHU</b>	<b>202052347</b>	<b>Use case Diagram, Cart &amp; cart related activity</b>
<b>MIDDE PAVANA SRI</b>	<b>202051119</b>	<b>Show Vendor History, PPT</b>
<b>SUBODH SINGH</b>	<b>202051184</b>	<b>Frontend HTML+CSS Pages</b>
<b>APURV PATEL</b>	<b>202051133</b>	<b>View stocks – Vendor Module</b>
<b>SOURABH BASER</b>	<b>202051181</b>	<b>View Previous Login Details , Shopping History</b>
<b>SPARSH AGRAWAL</b>	<b>202051182</b>	<b>User methods, Shopping History</b>
<b>SONU RAJ</b>	<b>202051180</b>	<b>Class Diagram</b>