INFOWAY TECHNOLOGIES,
KOTHRUD, PUNE.

Documentation on

"HOMEMADE CREATIONS"

PG-DAC SEPT 2021

Submitted By:

Group No: 03

Names & roll numbers

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1.INTRODUCTION:

The Homemade Creations is a web based application intended for online homemade, organic, natural products retailers and customers. The main objective of this application is to make interactive online platform for homemade products and to provide financial support to business women. It would make searching, viewing and selection of a homemade product easier. It contains a sophisticated search engine for user's to search for homemade products specific to their needs. The provides an easy and convenient way to search for products where a user can search for a homemade product interactively and the application would refine the products available based on the user's input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews. The application also provides a feature that a user can add a product to the shopping cart by adding the item to the shopping cart.The main emphasis lies in providing a userfriendly online platform for homemade products for effectively showing the desired results.

1.1 Problem Statement:

Existing system of a buying and selling of homemade products is based on our traditional way.
But access of these products is no longer normal due to the pandemic situation to people considering the safety. Due to this homemade product sellers are facing financial issues. Hence this system is proposed to overcome the flaws of the existing system and giving power to the customer and sellers. business women or seller can manage their products as per requirement and customers can select homemade products as per their choice.

1.2 Objectives of project:

Specific goals are: -

- To produce a web-based system that allows the sellers and customers to sell and buy products online. Admin can view the list of customers, sellers, products also can add, update and delete the vendors, customers and products.
- To develop proper communication between vendor and customers.
- The customer can order products online without being present physically .
- To give financial support to business women.

3.ANALYSIS:

3.1 Existing System:

Existing system of a buying and selling of homemade products is based on our traditional way.

But access of these products is no longer normal due to the pandemic situation to people considering the safety.

3.2. Proposed System:

- **Admin Management:**

  Admin can add categories, view customer details and view vendor details. He can also view, approve and deny all products. He can approve vendor too.

- **Vendor functionality:**

  Vendor can add and delete products.

- **Customer Functinality:**
  1) Customer can visit product from various categories.
  2) He request to product order placement.

3.3 SOFTWARE REQUIREMENT SPECIFICATION:

Hardware:

1. Intel i3 processor 3rd generation or later / AMD Ryzen 200 2nd generation or later
2. 2 GB ddr3 ram.
3. Windows 7 Home edition or later.
4. 200 GB Sata HDD Space
5. Data Connection 200 kbps

Software:

- **Back End:**
  1)Framework : Spring Boot
  2)ORM Tool: Hibernate
  3)Database: MySQL
  4)Build Tool: Maven dependencies

- **Front End:**
  1)React-Js

4. DATABASE DESIGN:

4.1 ADMIN TABLE:

Field	Type	Null	Key	Default	Extra
adminid	int	NO	PRI	NOT NULL	Auto_increment
apassword	varchar(20)	NO	UNI	NOT NULL	
awallet	decimal (9,2)	NO		0.00	

4.2 CATEGORY TABLE:

Field	Type	Null	Key	Default	Extra
cid	int	NO	PRI, UNI	NOT NULL	Auto_increment
cname	varchar(100)	NO	UNI	NOT NULL	
ctype	varchar(100)	NO			

4.3 CUSTOMER TABLE:

Field	Type	Null	Key	Default	Extra
uid	int	NO	PRI, UNI	NOT NULL	Auto_increment
upassword	varchar(100)	NO		NOT NULL	
ufname	varchar(100)	NO		NOT NULL	
ulname	varchar(100)			NOT NULL	
uemail	varchar(100)		UNI	NOT NULL	
uaddress	varchar(100)			NOT NULL	
ucontactno	varchar(100)			NOT NULL	
uwallet	Decimal(9,2)			2000.00	

4.4 MYORDER TABLE:

Field	Type	Null	Key	Default	Extra
oid	int	NO	PRI, UNI, FKEY	NOT NULL	Auto_increment
Uid	int	NO	FKEY	NULL	
Uname	varchar(100)	NO		NOT NULL	
Address	varchar(100)			NOT NULL	
Contactno	varchar(100)		UNI	NOT NULL	
Totalprice	decimal(9,2)			NOT NULL	
Qty	int			NULL	
ostatus	varchar(100)			PLACED	
pid	int		FKEY	NULL	

4.5 MYORDER_PRODUCT TABLE:

Field	Type	Null	Key	Default	Extra
pid	int	NO	FKEY	NOT NULL	
oid	int	NO	FKEY	NOT NULL	

4.6 PIDAUDIT TABLE:

Field	Type	Null	Key	Default	Extra
paid	int	NO	PRI	NOT NULL	Auto_increment
Oid	int	NO	FKEY	NULL	
Otime	date	NO		NULL	
pid	int			NULL	

4.7 PRODUCT TABLE:

Field	Type	Null	Key	Default	Extra
pid	int	NO	PRI, UNI	NOT NULL	Auto_increment
Pname	Varchar(100)	NO		NOT NULL	
Pdesc	varchar(100)	NO		NOT NULL	
Pimg1	longblob			NOT NULL	
Pimg2	longblob			NOT NULL	
Prating	int			3	
Pqty	varchar(100)			NULL	
pprice	Decimal(9,2)			NOT NULL	
papprove	Varchar(100)			FALSE	
cid	Int		FKEY	NULL	
vid	int		FKEY	NULL	

4.8 PRODUCT_MY_ORDER TABLE:

Field	Type	Null	Key	Default	Extra
pid	int	NO	FKEY	NOT NULL	
oid	int	NO	FKEY	NOT NULL	

4.9 PRODUCTAUDIT TABLE:

Field	Type	Null	Key	Default	Extra
paid	int	NO	PRI, UNI	NOT NULL	Auto_increment
Pid	int	NO		NULL	
Pname	varchar(100)	NO		NULL	
Pprice	Decimal(9,2)			NULL	
Pqty	int			NULL	
ptime	datetime			NULL	
qty	int			NULL	

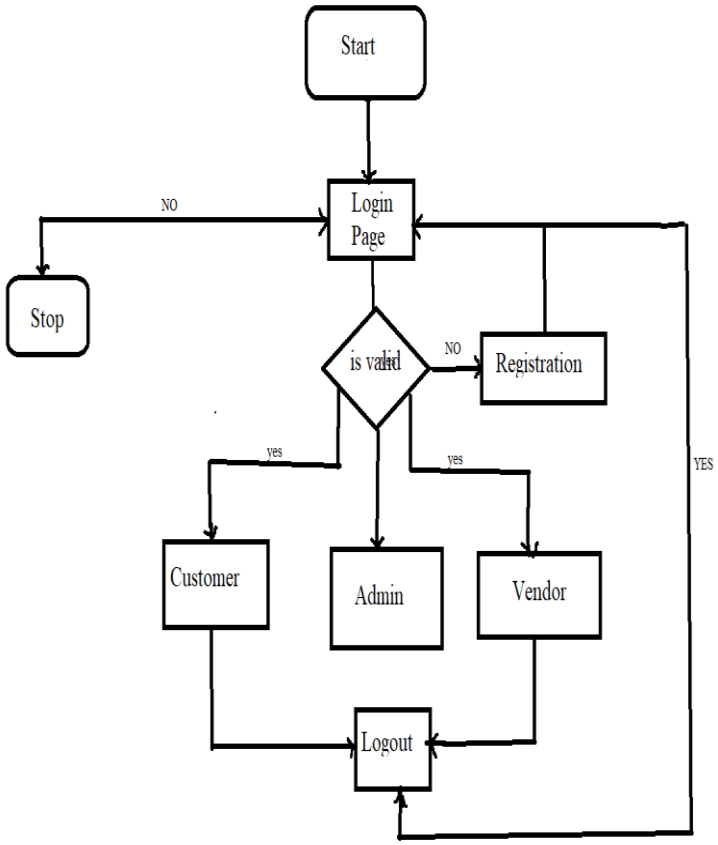
4.10 VENDOR TABLE:

Field	Type	Null	Key	Default	Extra
Vid	int	NO	PRI, UNI	NOT NULL	Auto_increment
Vpassword	Varchar(100)	NO		NOT NULL	
Vfname	varchar(100)	NO		NOT NULL	
Vlname	Varchar(100)			NOT NULL	
Vcontactno	bigint			NOT NULL	
Vaddress	papprove			NOT NULL	
Vemail	varchar(45)			NOT NULL	
Vwallet	decimal(9,2)			0.00	
vstatus	varchar(45)			FALSE	

4.11 VENDORAUDIT TABLE:

Field	Type	Null	Key	Default	Extra
Vaid	int	NO	PRI	NOT NULL	Auto_increment
Vid	Int	NO		NULL	
Vuid	int	NO		NULL	
Vfname	Varchar(100)			NULL	
Vlname	Varchar(100)			NULL	
Vtime	datetime			NULL	

4.2 DESIGN
Flowchart:



4.2 UML Diagrams:

4.2.1Customer:

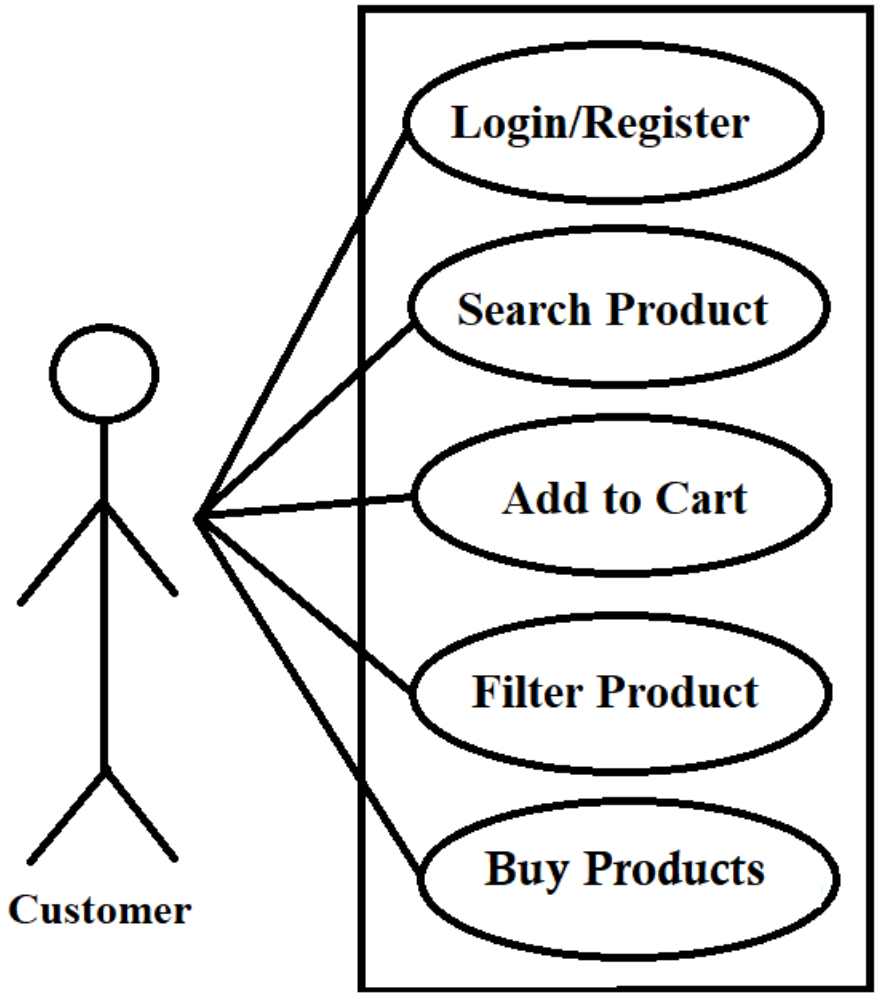


Figure 1: Use Case For Customer

4.1.2 Vendor:

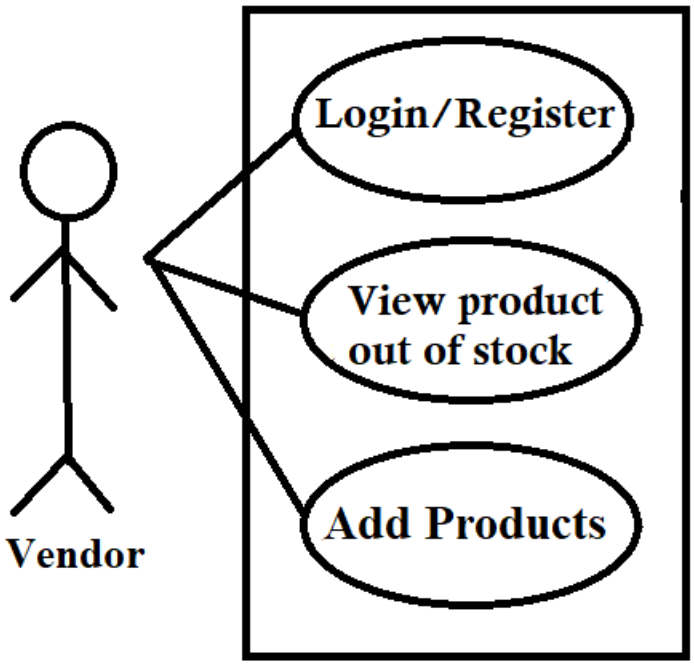


Fig. Use-Case Diagram for Vendor

4.2.3Admin:

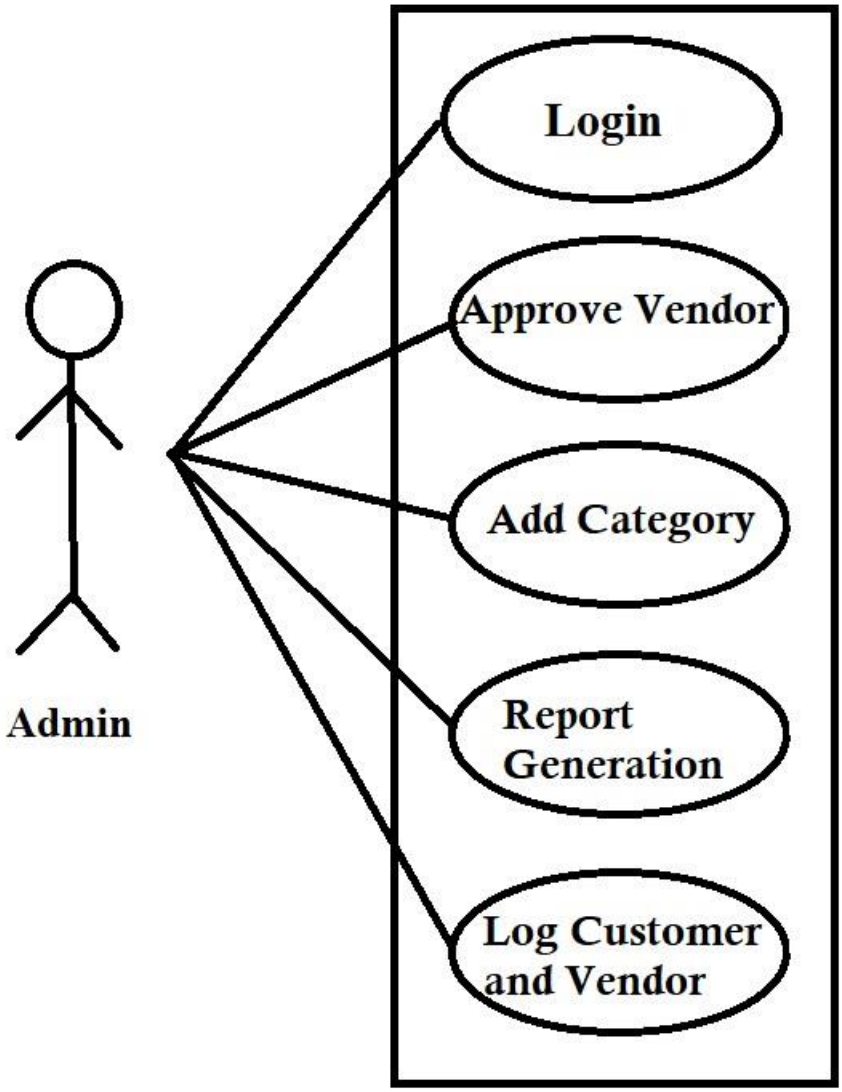
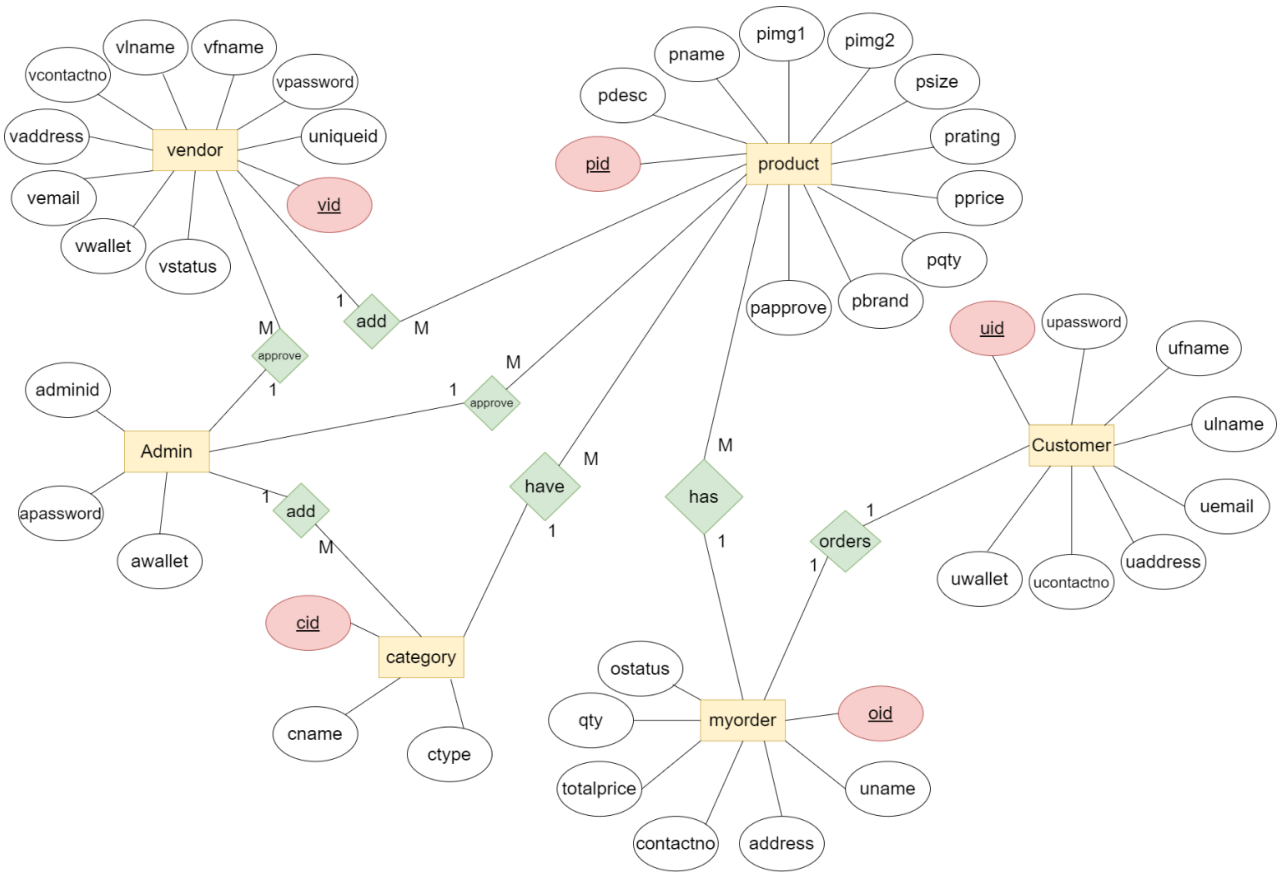


Fig. Use-Case Diagram for Admin

4.3 ER-DIAGRAM:



E-R diagram shows database of Homemade Creations

5.IMPLEMENTATION:

5.1 Modules and Description:

Homemade Creations consists of three modules described as below.

1. Customer Module
2. Vendor Module
3. Admin Module

5.1.1 Customer Module

- Customer can login or register.
- Customer can search for a particular product.
- Add products to cart.
- Customer can filter products according to their requirements.
- Buy products selected in the cart.

5.1.2 Vendor Module

- Vendor can login or create his own account.
- Vendor can add products for sell.
- View alert on products out of stock.

5.1.3 Admin Module

- Admin can login.
- Admin can approve vendor.
- Track customers and vendors activities and data.
- Add category of product.

1.2 Introduction to Technologies:

- **Spring Boot Framework:**

Spring Boot is a project that build on the top of Spring Framework. It provides an easier and faster way to set up, configure, and run both simple and web-based applications.

It is a Spring Module that provides the RAD (Rapid Application Development) feature to the Spring Framework. It is used to create a stand-alone spring based application that we can just run because it needs minimal spring configuration.

Features of Spring Boot Framework:

- **Web Development:**

  It is well suited module for web application development. We can easily create a self-contained HTTP server using embedded servers like Tomcat.

- **Spring Application:**

  It is a class which provides the convenient way to bootstrap a spring application which can be started from main method. We can call start our application just by calling a static run() method.

- **Application Events and Listeners:**

  Spring Boot uses events to handle variety of tasks. It allows us to create factories file that are used to add listeners. We can refer it by using Application Listener key.

- **Admin Support**

  Spring Boot provides the facility to enable admin related features for the application. It is used to access and manage application remotely. We can enable it by simply using spring. application.admin.enabled property.

- **Properties Files**

  Spring Boot provides rich set of Application Properties. So, we can use that in properties file of our project. Properties file is used to set properties like: server.port = 8080 and many others. It helps to organize application properties.

- **Security**

  Spring Boot applications are spring based web applications. So, it is secure by default with basic authentication on all HTTP endpoints. A rich set of Endpoints are available for develop a secure Spring Boot application.

1.2 Advantages of Spring Boot Framework:

1. It creates stand-alone Spring applications that can be started using Java -jar.
2. It tests web applications easily with the help of different Embedded HTTP servers such as Tomcat, Jetty, etc. We don't need to deploy WAR files.
3. It provides opinionated 'starter' POMs to simplify our Maven configuration.
4. It provides production-ready features such as metrics, health checks, and externalized configuration.
5. There is no requirement for XML configuration.
6. It offers a CLI tool for developing and testing the Spring Boot application.
7. It offers the number of plug-ins.

- **Hibernate**
- Hibernate is a Java framework that simplifies the development of Java application to interact with the database. It is an open source, lightweight, ORM (Object Relational Mapping) tool. Hibernate implements the specifications of JPA (Java Persistence API) for data persistence.
  - **ORM Tool:**

  An ORM tool simplifies the data creation, data manipulation and data access. It is a programming technique that maps the object to the data stored in the database. The ORM tool internally uses the JDBC API to interact with the database.
- **JPA:**

  Java Persistence API (JPA) is a Java specification that provides certain functionality and standard to ORM tools. The javax.persistence package contains the JPA classes and interfaces.

1.4 MySQL

MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

Features of MySQL:

- **MySQL is a database management system.**

  A database is a structured collection of data. It may be anything from a simple Salonping list to a picture gallery or the vast amounts of information in a corporate network. To add, access,

and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.

- **MySQL databases are relational.**

A relational database stores data in separate tables rather than putting all the data in one big storeroom. The database structures are organized into physical files optimized for speed. The logical model, with objects such as databases, tables, views, rows, and columns, offers a flexible programming environment.

- **MySQL software is Open Source.**

Open Source means that it is possible for anyone to use and modify the software. Anybody can download the MySQL software from the Internet and use it without paying anything.

- **The MySQL Database Server is very fast, reliable, scalable, and easy to use:**

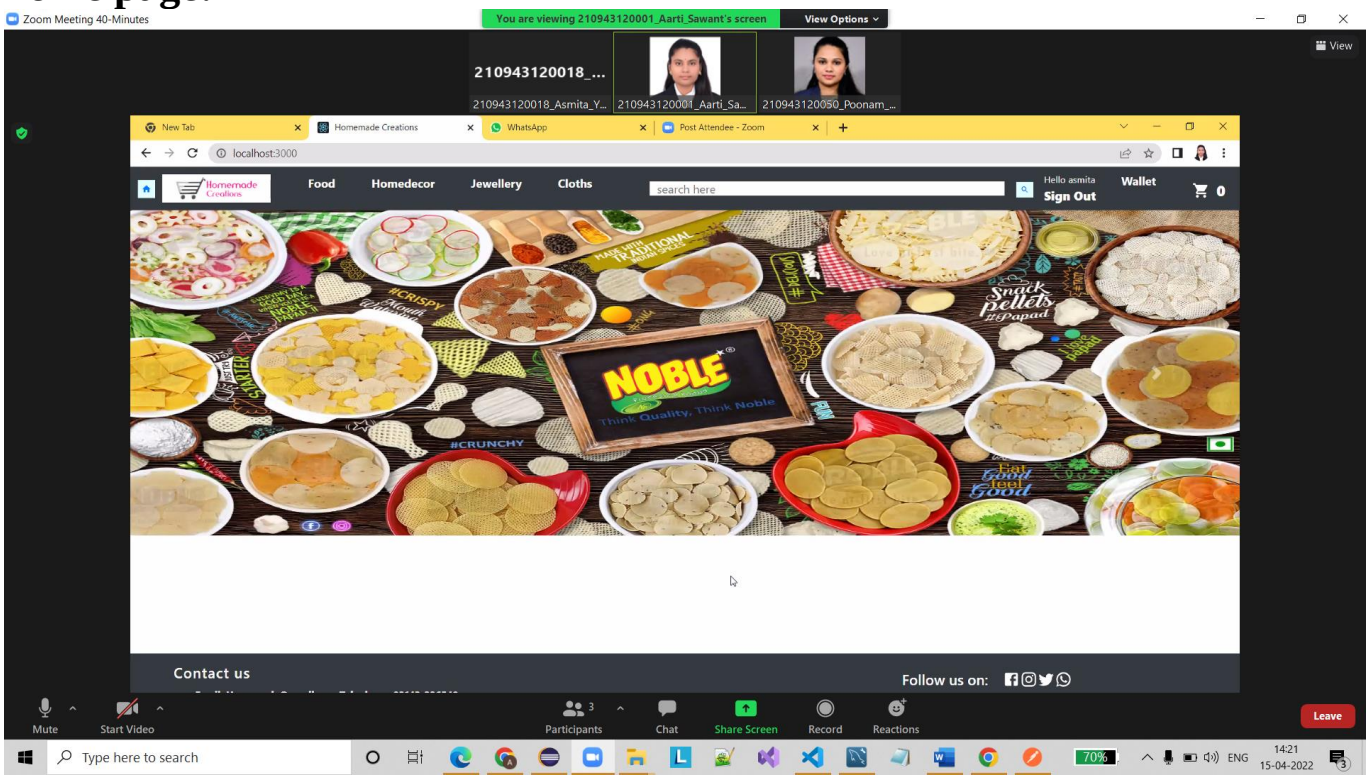
MySQL Server was originally developed to handle large databases much faster than existing solutions and has been successfully used in highly demanding production environments for several years. Although under constant development, MySQL Server today offers a rich and useful set of functions. Its connectivity, speed, and security make MySQL Server highly suited for accessing databases on the Internet.

- **MySQL Server works in client/server or embedded systems:**

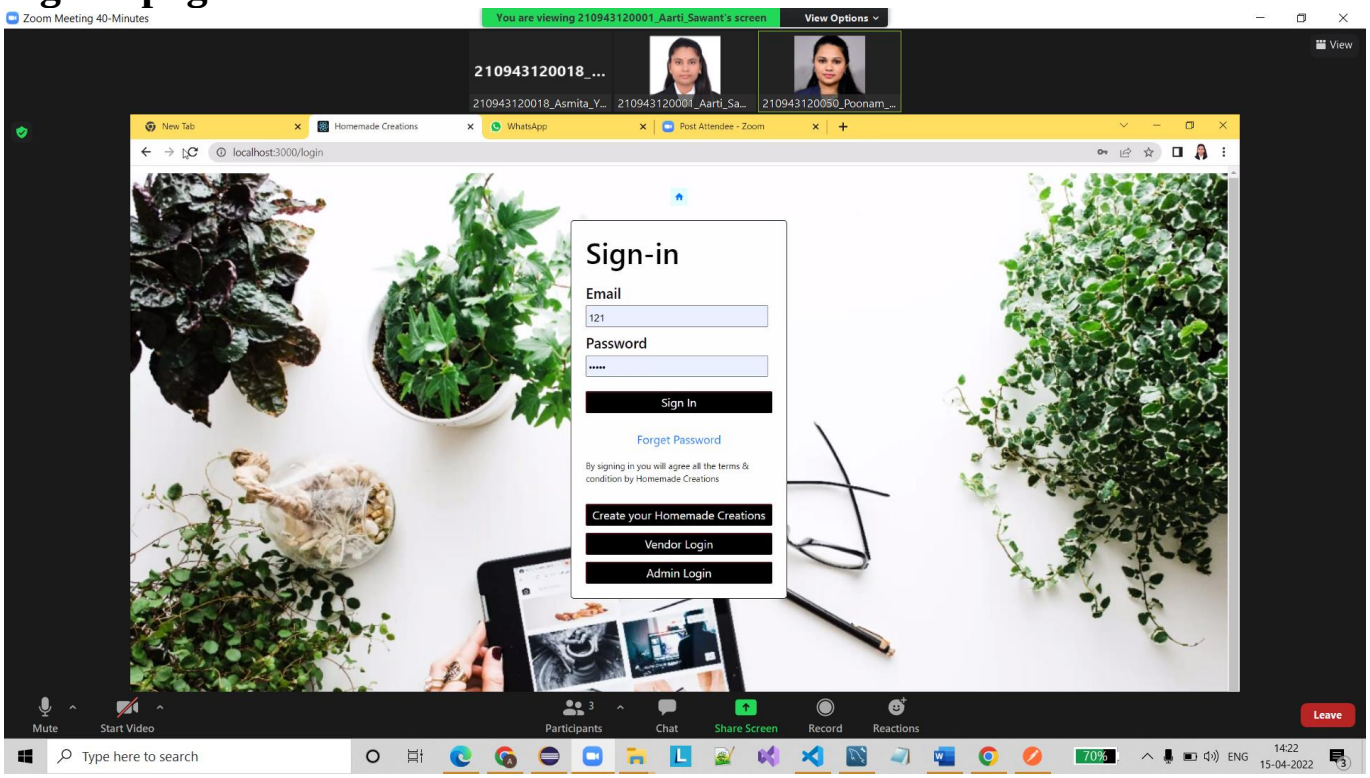
The MySQL Database Software is a client/server system that consists of a multithreaded SQL server that supports different back ends, several different client programs and libraries, administrative tools, and a wide range of application programming interfaces.

7.SCREENSHOT:

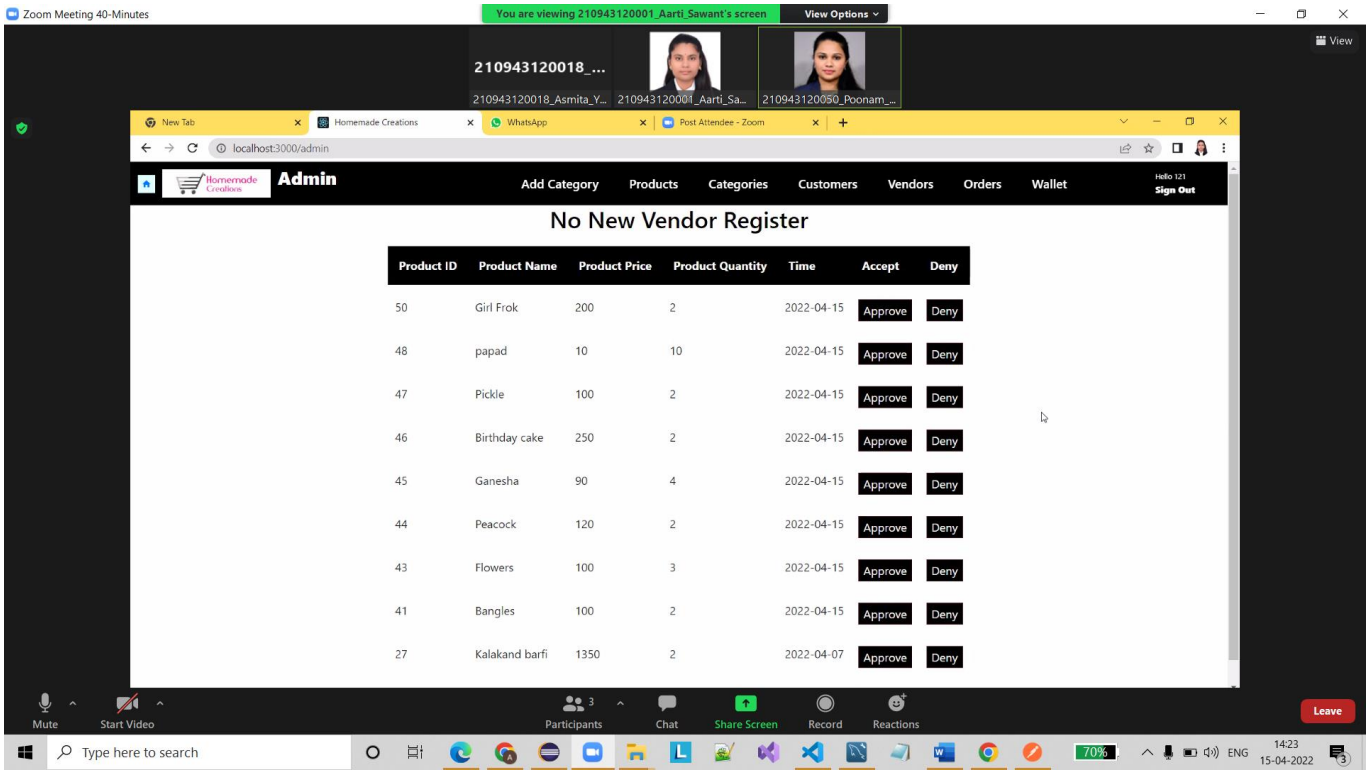
home page:



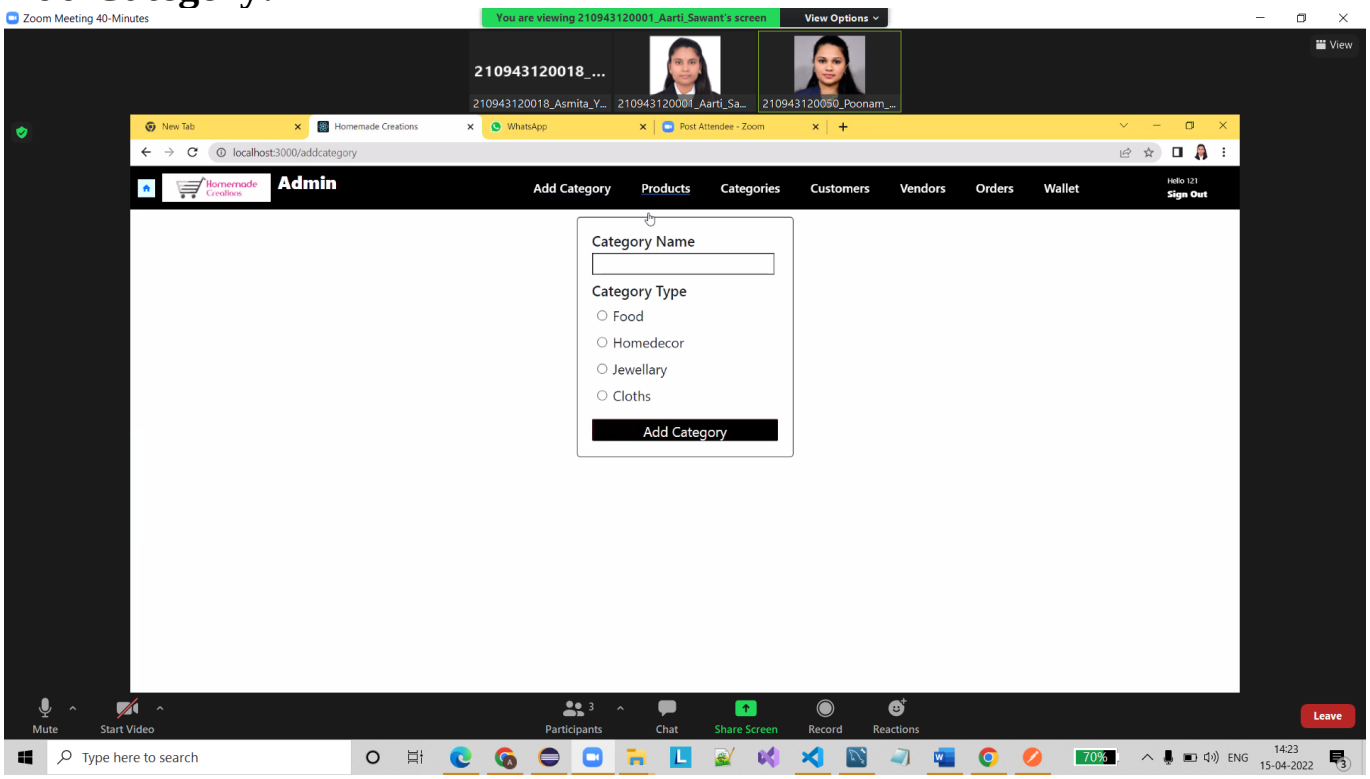
Sign in page:



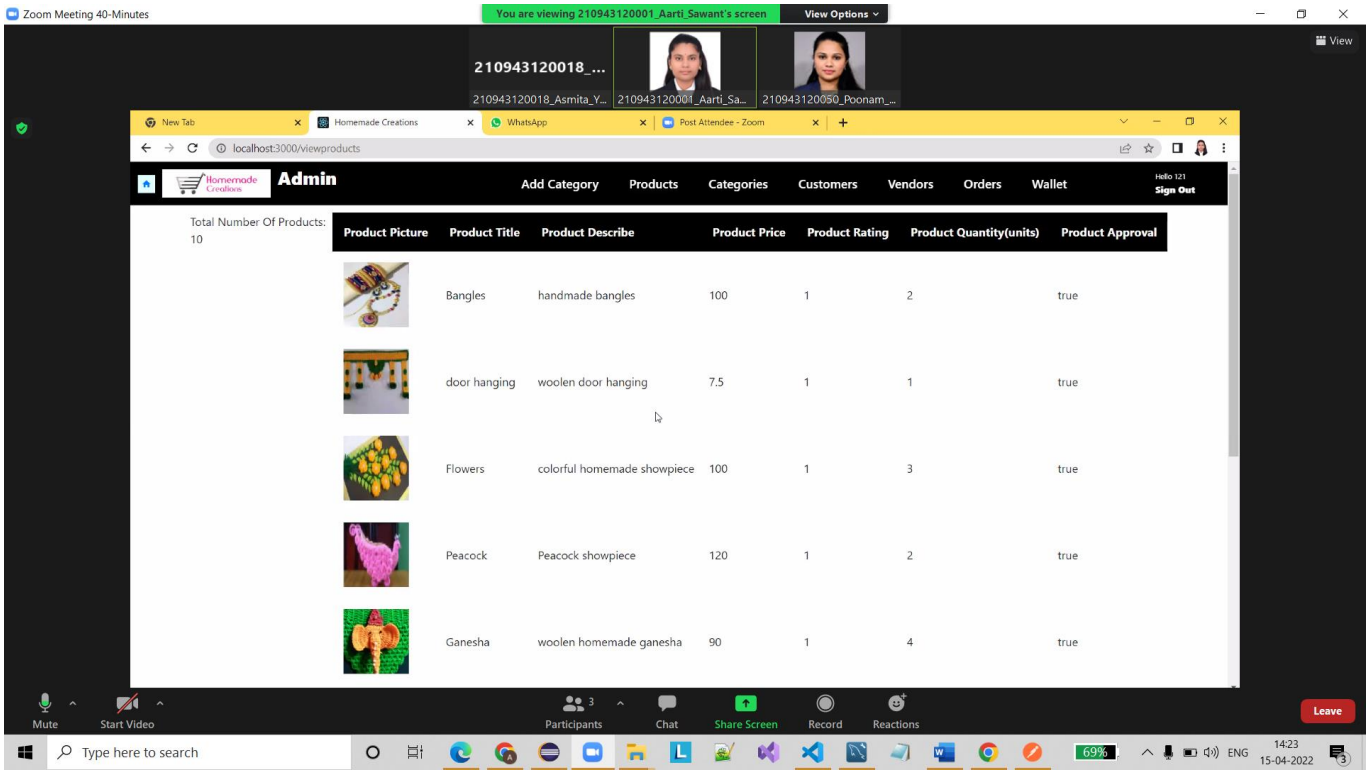
Admin:



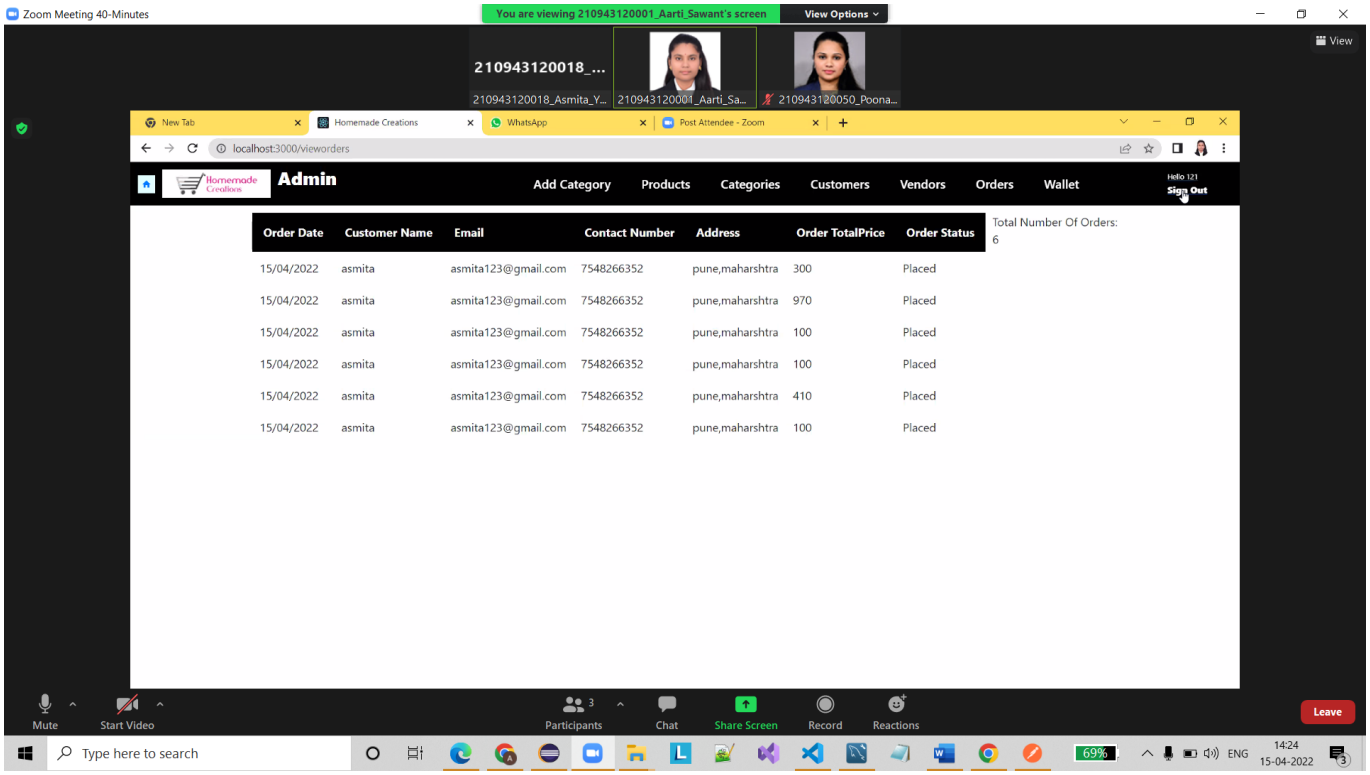
Add Category:



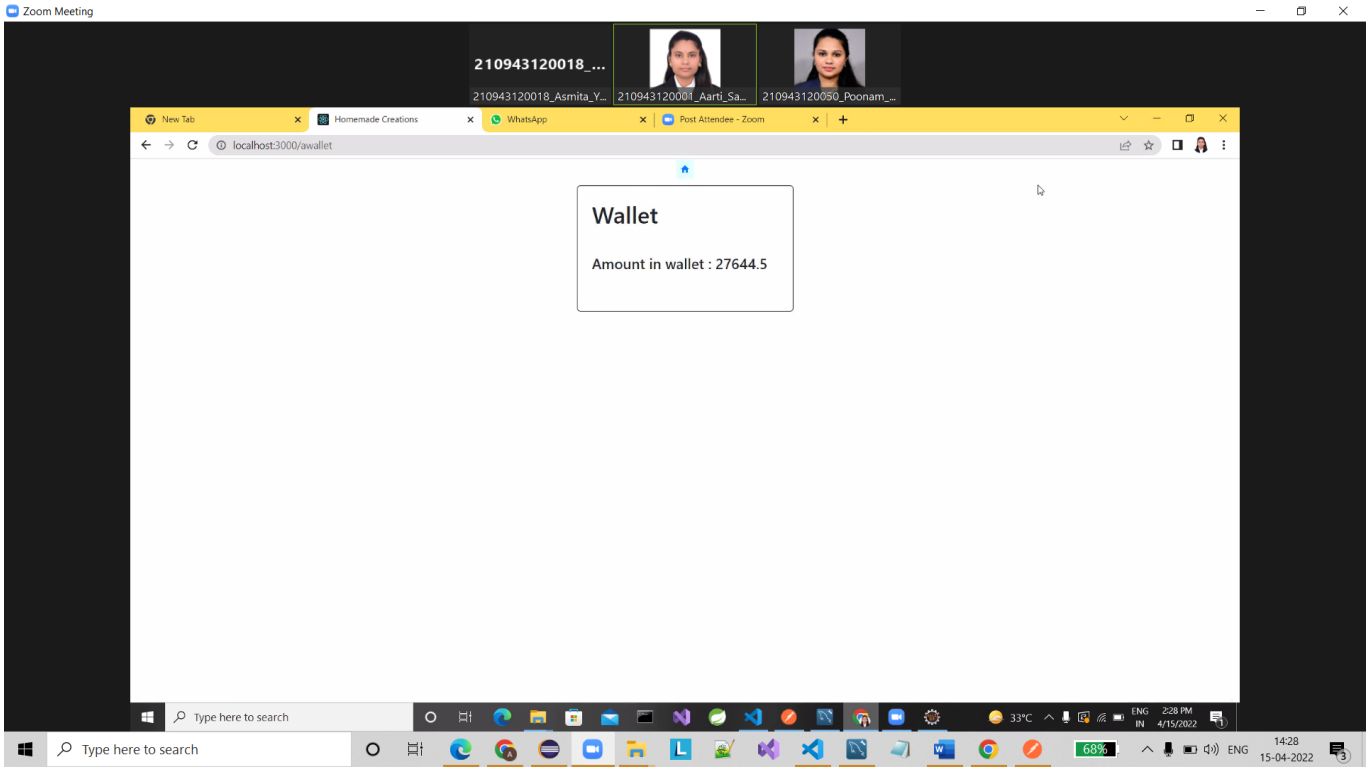
Product:



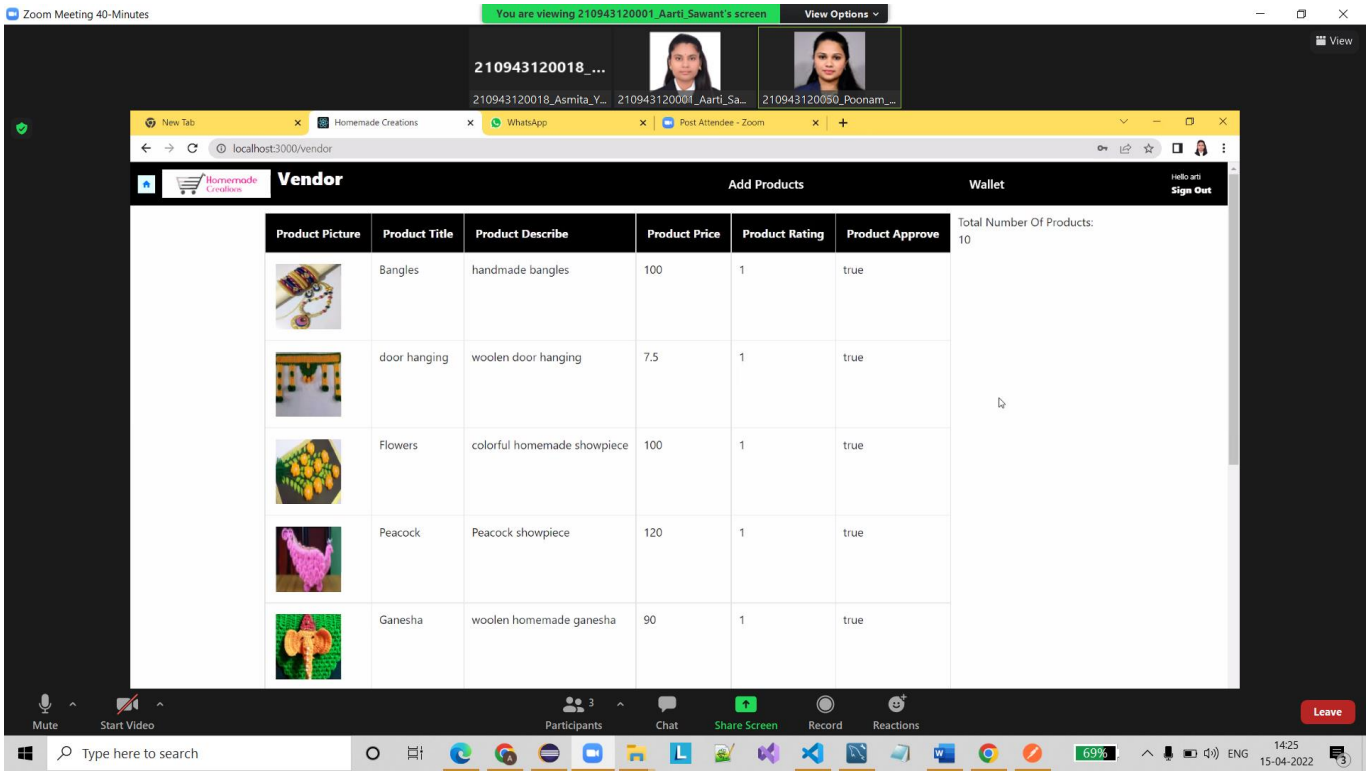
Customer:



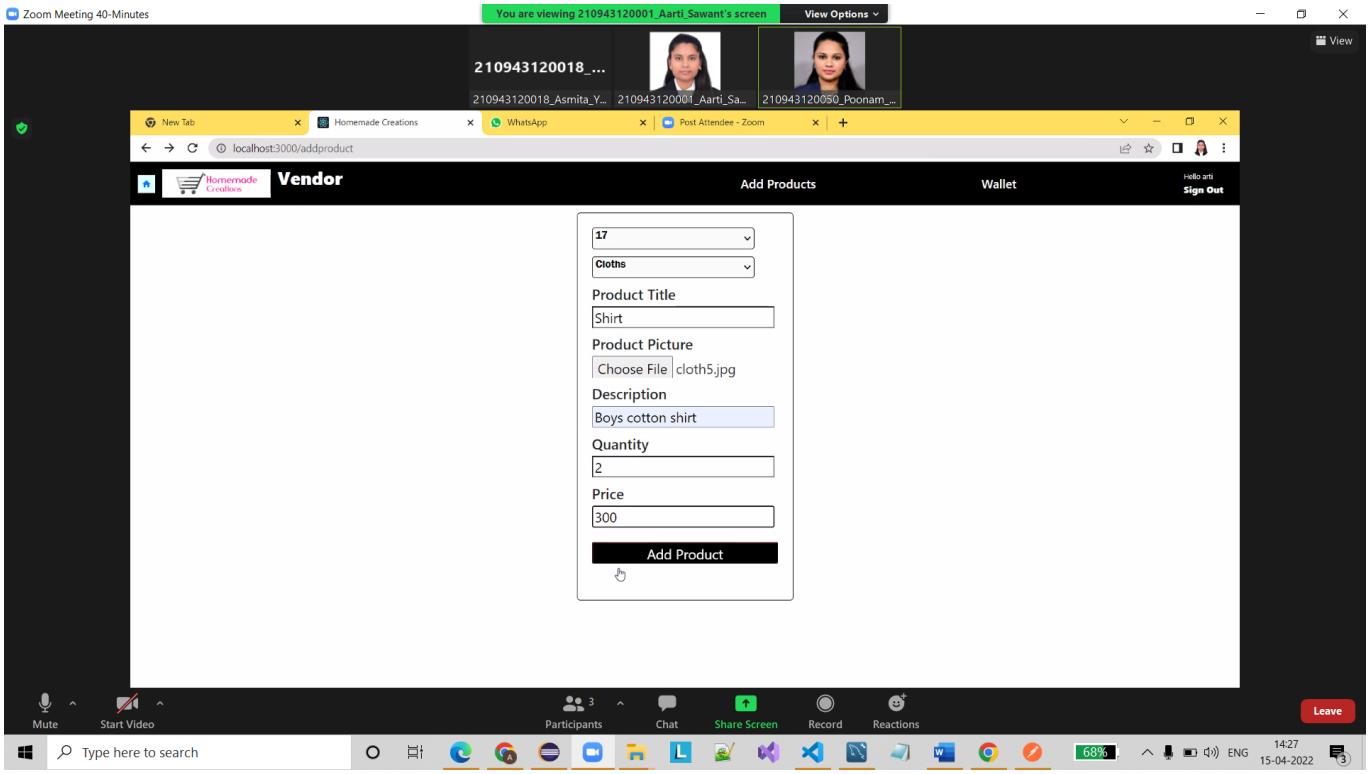
Admin Wallet:



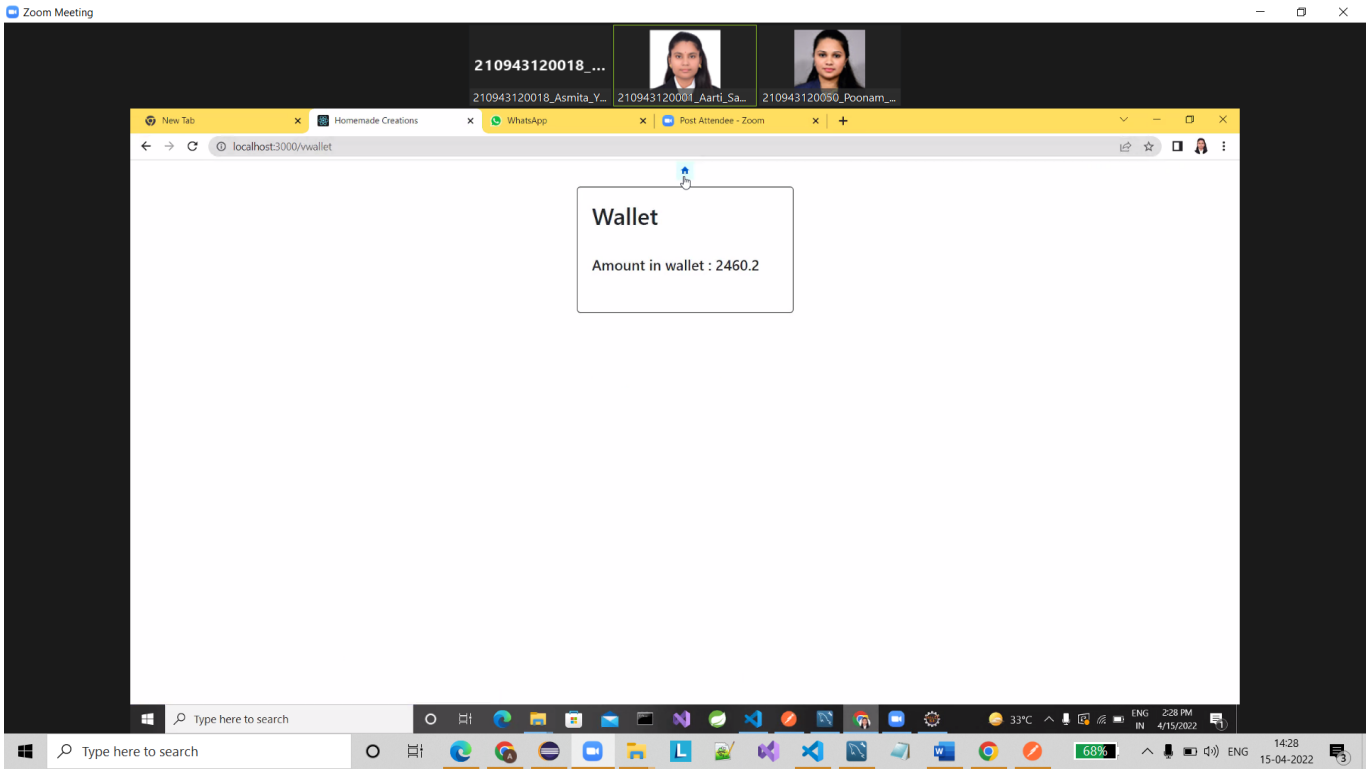
Vendor:



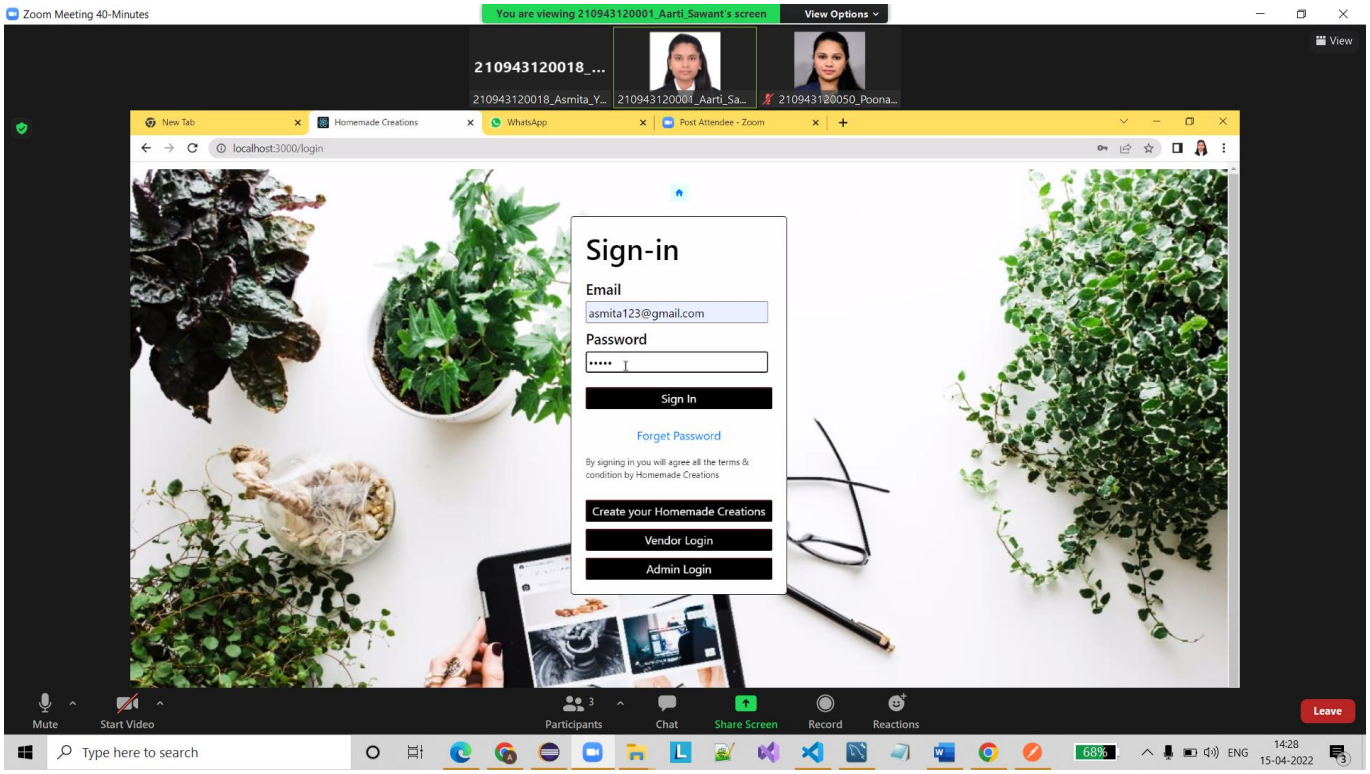
Add Product:



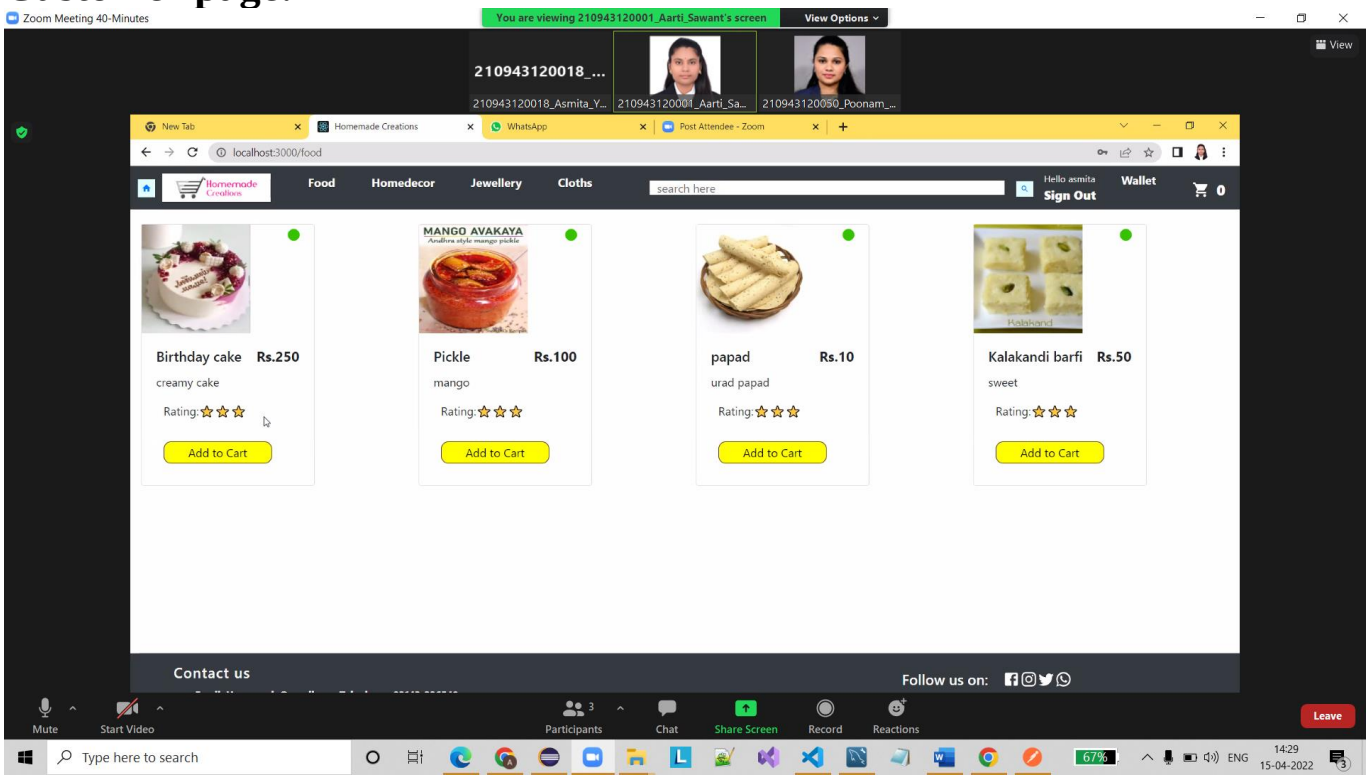
Vendor Wallet:



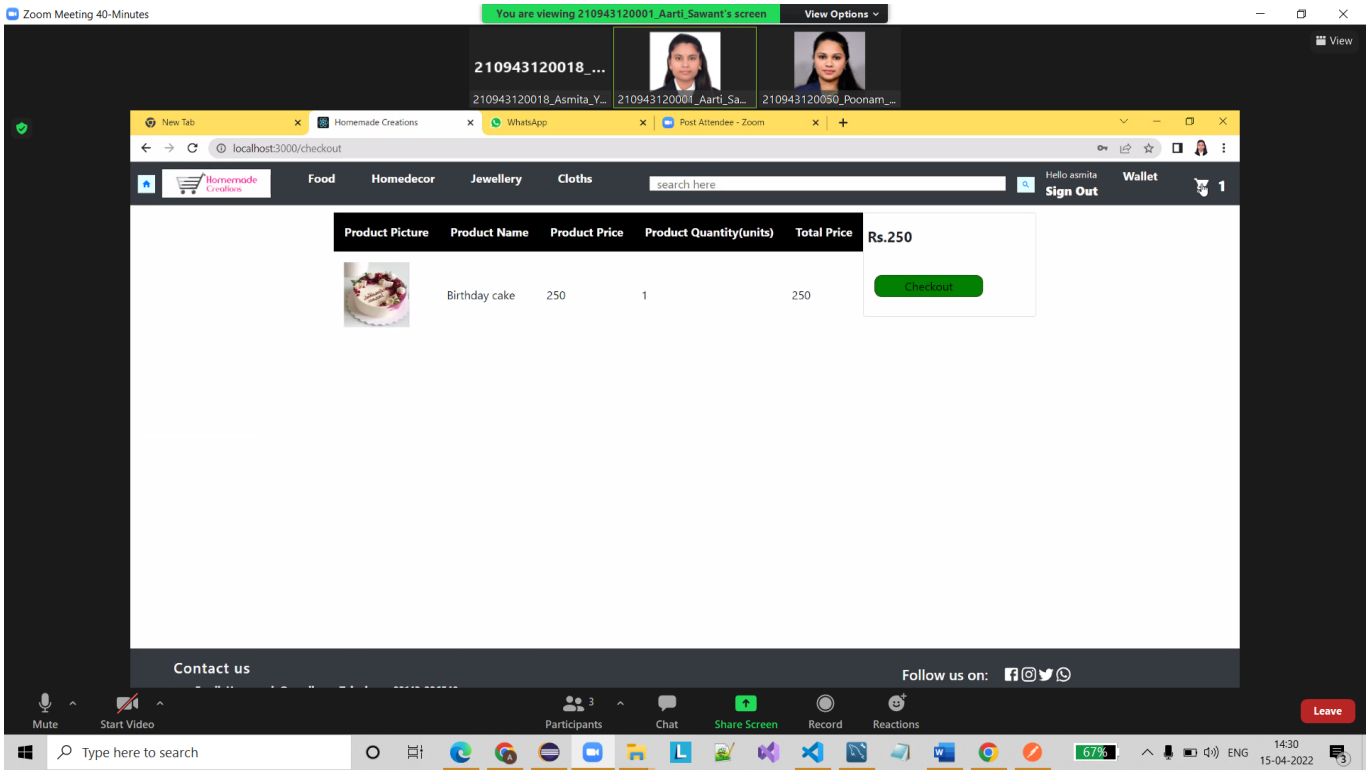
Customer:



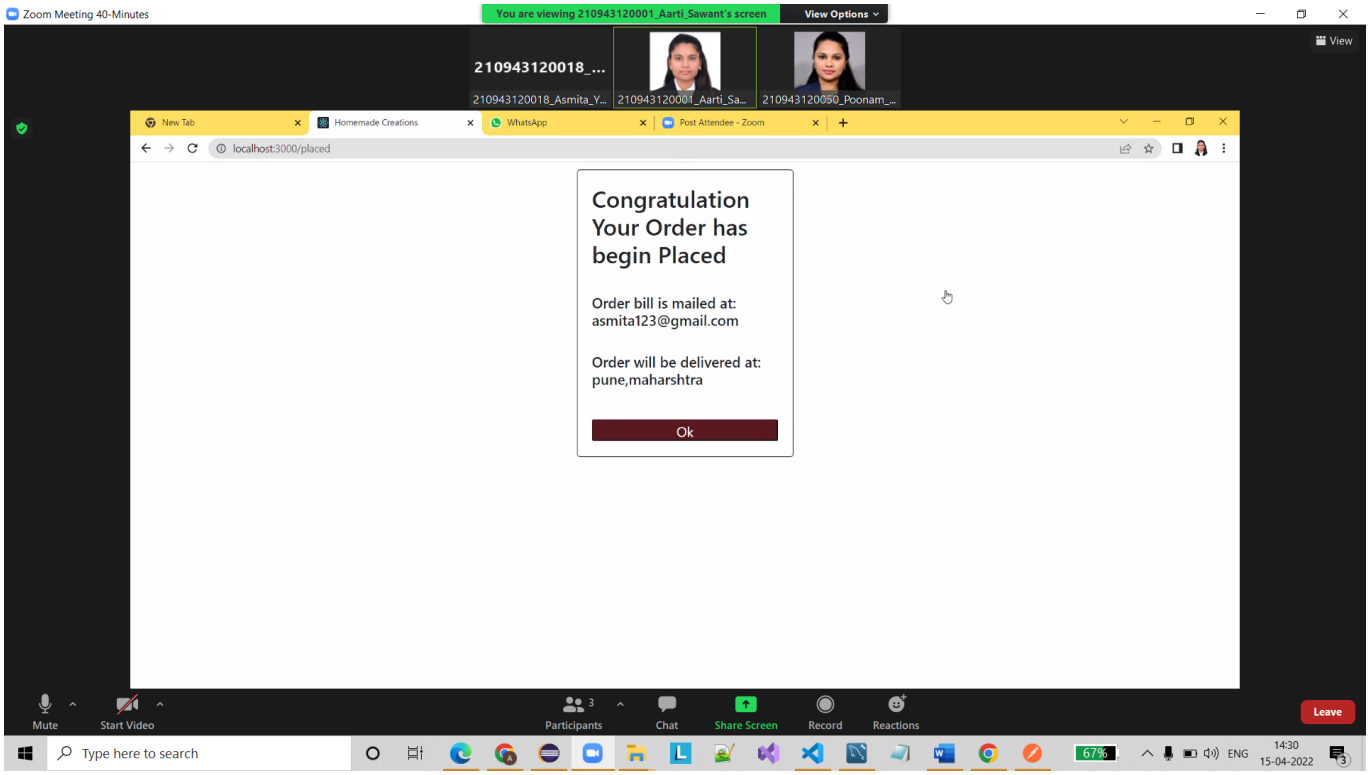
Customer page:



Add to Cart:



Order Bill:



8.CONCLUSION:

- The ‘Homemade Creations’ is designed to provide a web based application that would make searching, viewing and selection of a homemade product easier.
- The growing quality demand of homemade products makes it necessary to exploit the interactive online platform efficiently, also to improve the management in order to minimize cost and improve the quality of homemade products.
- Traditional methods of crafting, creating is preserved.

9.FUTURE SCOPE:

1. We will arrange training forum for women to improve quality of products.

2.we will make it available globally. S