A

PROJECT REPORT

ON

“ **SHOP FOR HOME: AN ECOMMERCE WEB APPLICATION** ”

Submitted to

GREAT LEARNING

Submitted By

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1. INTRODUCTION

1.1 ABSTRACT:

This document aims to give a brief description about E-Commerce web application using angular, Spring Boot and MySQL. The main aim of this project is to build an E-commerce website of home décor items in the Covid situation where all the offline shops are closed. E-commerce is gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming common. The objective of this project is to develop a general-purpose e-commerce store where product like home décor items can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online shopping for home décor items. 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. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. An e-mail notification is sent to the customer as soon as the order is placed.

1.2 PROBLEM STATEMENT:

During this pandemic time, it has been difficult to shop offline with the fear of spreading of corona virus. Hence many offline home décor shops have been closed due to no visitors. Almost all small businesses have been paused due to the pandemic. Hence there must be a way created for these small businesses to run even in these pandemic times so that they don’t have to bear huge loss.

Shop For Home is a popular Store in the market for shopping the home décor stuff. Due to Covid 19 all the offline shopping stopped. So, the store wants to move to the online platforms and wants their own web application.

There are 2 users on the application:

1. User
2. Admin

1.3 SCOPE OF THE PROJECT:

Online selling and purchasing offer innumerable benefits to both sellers and buyers, and these advantages are also the reasons for the rising scope of e-Commerce. As of 2019, the total value of the e-commerce business in India was USD 38.5 billion, according to IBEF, and it is expected to hit USD 200 billion by 2026. That gives us a good idea about the future scope of e-commerce in India.

1.4 OBJECTIVES:

The primary goal of e-commerce is to reach maximum customers at the right time to increase sales and profitability of the business. Functions of e-commerce include buying and selling goods, transmitting funds or data over the internet.
The three main objectives are as follows

1. Find the best solution for their needs
2. Make a purchase, and
3. Get information/answers to their questions

2. OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

Home décor shop is aimed towards the vendors who want to reach out to the maximum cross-section of customer and common people who can be potential customer. This project envisages bridging the gap between the seller, the retailer and the customer. OFS should be user- friendly, 'quick to learn' and reliable software for the above purpose. OFS is intended to be a stand-alone product and should not depend on the availability of other software. It should run on both UNIX and Windows based platform

2.2 USER CLASSES AND CHARACTERISTICS

The user should be familiar with the shopping mall related terminology like Shopping cart/Checking out/Transaction etc.
The user should be familiar with the Internet.

2.3 OVERVIEW:

An E-commerce website that allows people to buy and sell physical goods, services, and digital products over the internet rather than at a brick-and-mortar location. Through an e-commerce website, a business can process orders, accept payments, manage shipping and logistics, and provide customer service.

2.4 PRODUCT FUNCTIONS

1. **User-Friendly Design**
   Perhaps the most important feature customers want in an ecommerce site is a good user experience. If your customers can't find their way around your website or they struggle to find what they're looking for, they will likely move swiftly on to one of the many other online retailers. Utilize ecommerce UX best practices. Prioritize

customer experience by: Creating a simple, straightforward, high-quality homepage. Including a search bar. Clearly listing category pages in the navigation bar. Focusing on creating a responsive website. 14 Modern Website Design Trends for 2022

2. **Mobile-Friendly Features**

   In the modern marketplace, ecommerce consumers are increasingly reliant on their mobile devices. According to Sale Cycle, mobile devices were used in 56% of all online purchases in 2020. In other words, most customers want to browse online stores on their phones, so including mobile optimization in your ecommerce website design is vital. Ensure your web design is automatically modified for the screen size and shape of phones to increase your conversion rate and keep customers happy.

3. **User Discounts Customers**

   like to feel that they're getting a good deal and being treated differently from other customers. Offer personalized deals, offers, and other user features to give them this type of attractive, customized experience. Offer user accounts where customers can access loyalty pricing offers, their personalized wish list, and account history. You can also use an ecommerce platform automated emailing system to send targeted special offers to loyal customers.

4. **Extensive Product Information**

   Shopping online has become extremely common, but many consumers still feel hesitant about making online purchases — especially from smaller brands that they may be unfamiliar with. A big disadvantage of online shopping for consumers is that they are unable to see or try the product before making a purchase. In order to convince your customers that your product is high-quality and worth their money, be sure to offer as much product information as possible. On your product pages, include detailed product descriptions that offer information about size, material, color, ingredients, and place of origin. Offer high-quality product photography that show the product from every angle. For clothing, be sure to include images of a model wearing the item.

3. SPECIFIC REQUIREMENTS

3.1 FUNCTIONAL REQUIREMENTS

User Stories –

1. As a user I should be able to login, Logout and Register into the application.
2. As a user I should be able to see the products in different categories.
3. As a user I should be able to sort the products.
4. As a user I should be able to add the products into the shopping cart.
5. As a user I should be able to increase or decrease the quantity added in the cart.
6. As a user I should be able to add “n” number of products in the cart.
7. As a user I should be able to get the Wish list option where I can add those products which I want but don’t want to order now.
8. As a user I should get different discount coupons.

Admin Stories –

1. As an Admin I should be able to login, Logout and Register into the application.
2. As an Admin I should be able to perform CRUD on Users.
3. As an Admin I should be able to Perform CRUD on the products.
4. As an Admin I should be able to get bulk upload option to upload a csv for products details
5. As an Admin I should be able to get the stocks.
6. As an Admin I should be able to mail if any stock is less than10.
7. As an Admin I should be able to get the sales report of a specific duration.
8. As an Admin I should be able to set the discount coupons for the specific set of users

3.2 SOFTWARE REQUIREMENTS:

The functional requirements or the overall description documents include the product perspective and features, operating system and operating environment, graphics requirements, design constraints and user documentation.

The appropriation of requirements and implementation constraints gives the general overview of the project in regards to what the areas of strength and deficit are and how to tackle them.

Technologies	**Angular, Spring Boot, MySQL**
Languages	**Type Script, Java, SQL Queries**
IDE	Eclipse , Vs code, Mysql Workbench
Operating System	Windows 7/8/10/11 , Linux distros, MacOS X or later.

3.3 HARDWARE REQUIREMENTS:

Minimum hardware requirements are very dependent on the particular software being developed by a given Enthought Python/ VS Code user. Applications that need to store large arrays/objects in memory will require more RAM, whereas applications that need to perform numerous calculations or tasks more quickly will require a faster processor.

Processor	Intel or AMD dual core x86 processor.
Ram	4 GB or above.
Hard disk	500 MB of free disk space or more.

3.3 ARCHITECTURE

Angular Architecture:

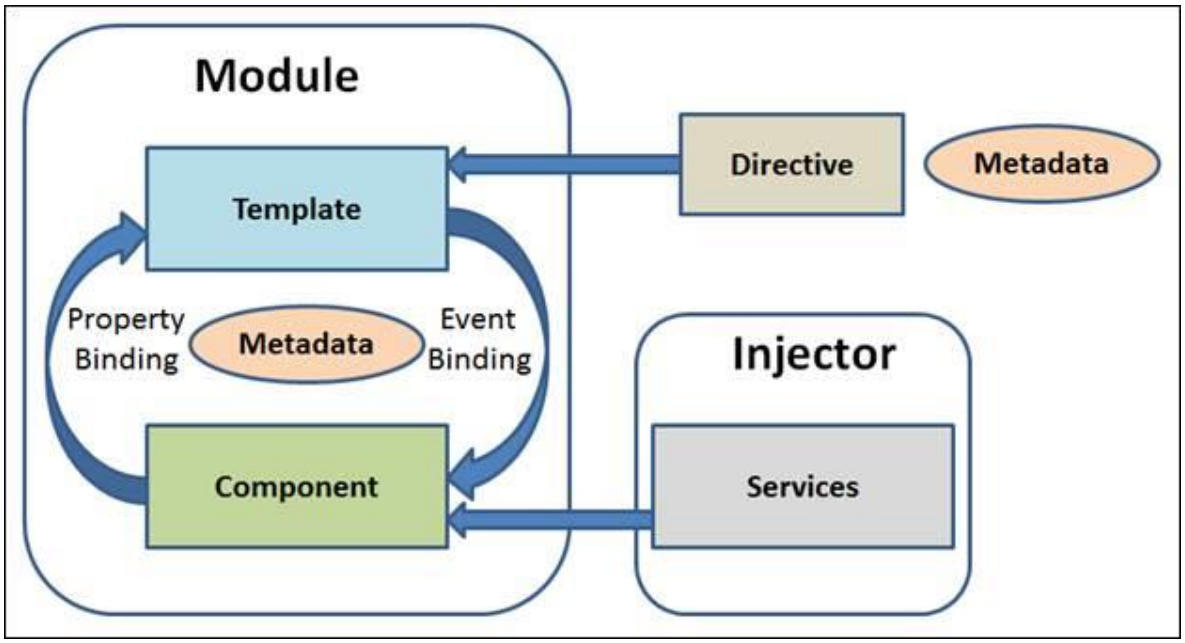


Fig. 3.1 Angular Architecture

There is main eight blocks of Angular.

1. Module
2. Component
3. Metadata
4. Template
5. Data Binding
6. Service
7. Directive
8. Dependency Injection

Spring Boot Architecture:

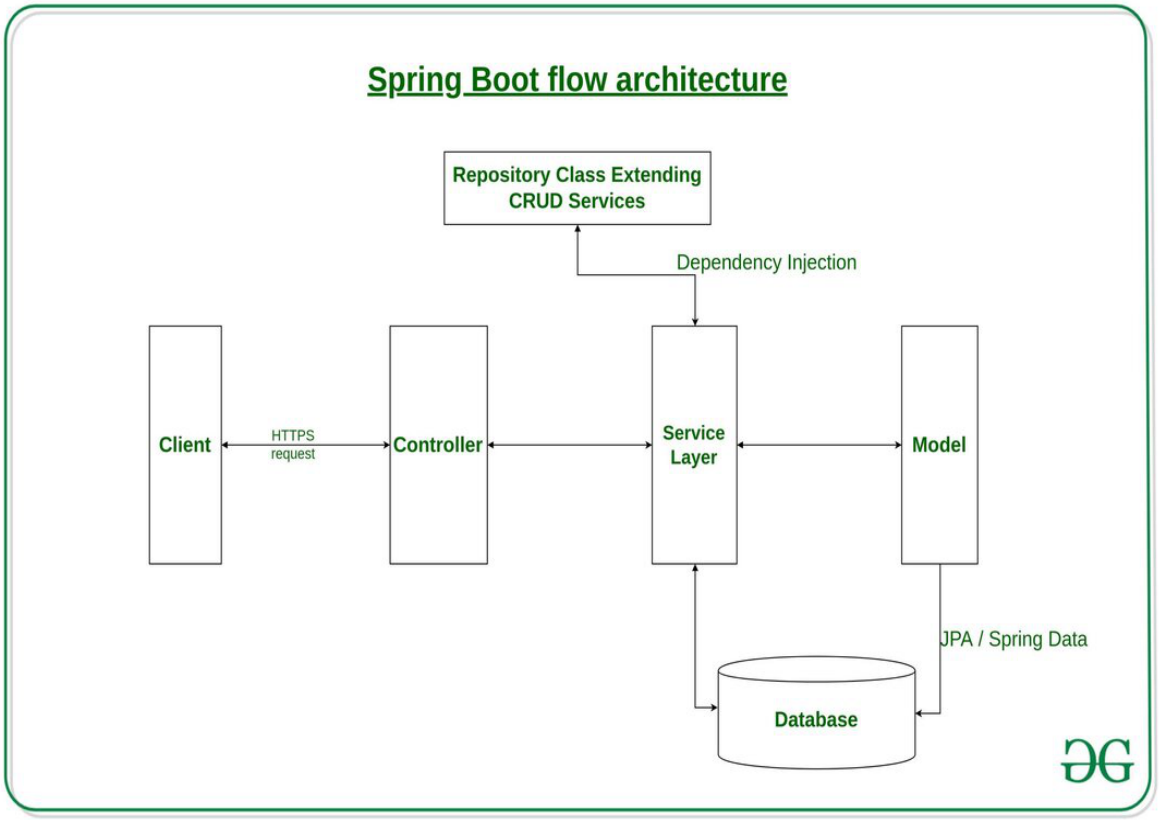


Fig. 3.2 Spring Boot Architecture

The spring boot consists of the following four layers:

1. Presentation Layer – Authentication
2. Business Layer – Business Logic, Validation & Authorization
3. Persistence Layer – Storage Logic
4. Database Layer – Actual Database

Micro Services Architecture

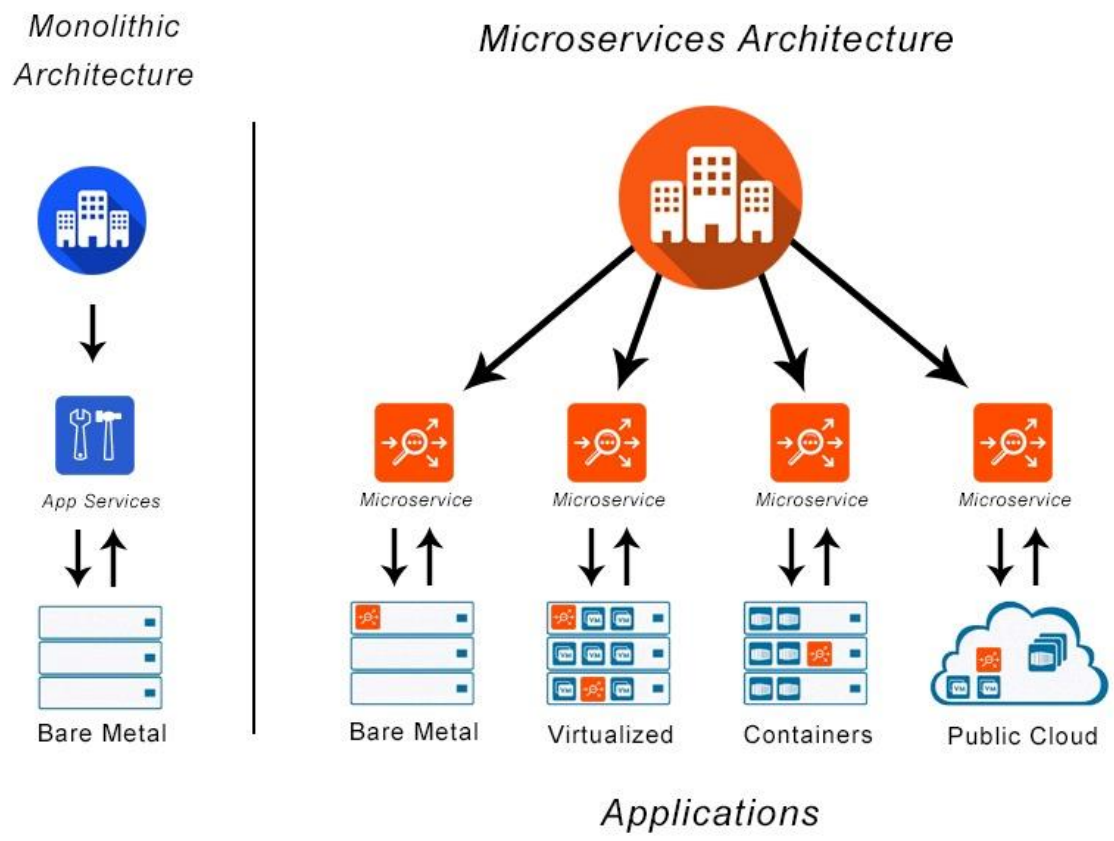
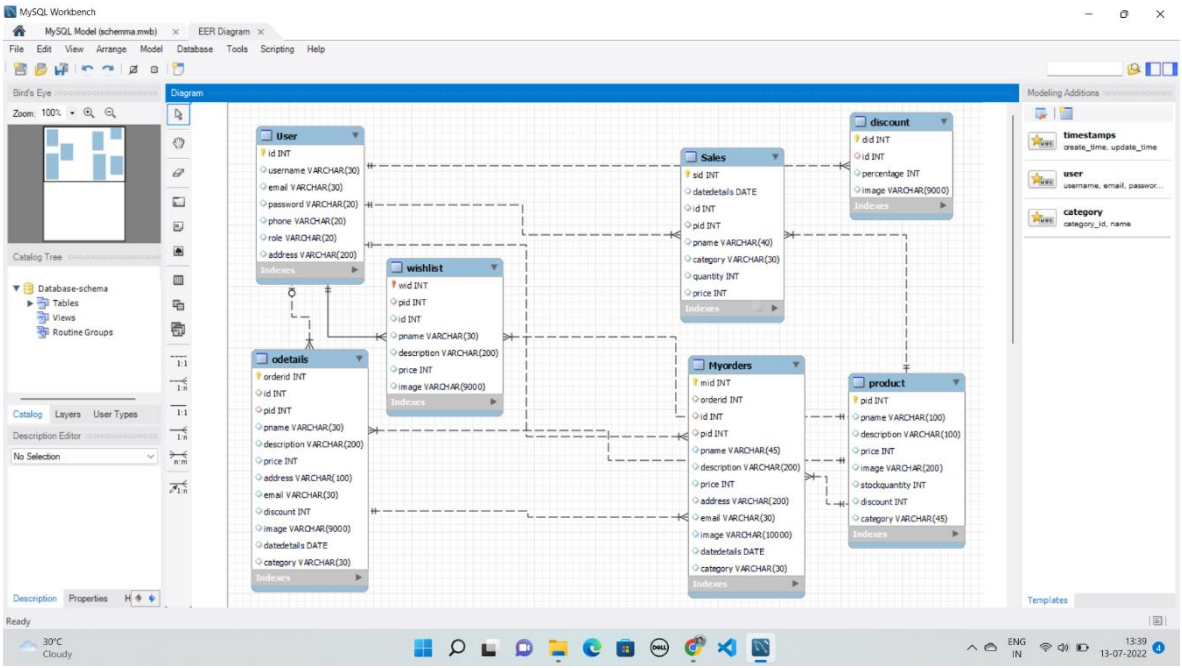


Fig 3.3 Microservices Architecture

Typically, microservices are used to speed up application development. Microservices architectures built using Java are common, especially Spring Boot ones. It's also common to compare microservices versus service-oriented architecture. Both have the same objective, which is to break up monolithic applications into smaller components, but they have different approaches.

Database Design:



Tables are created for all entities

Entities in the Database include

1. User
2. Product
3. Wishlist
4. Discount
5. Odetails
6. Myorders
7. Sales

3.4 NON-FUNCTIONAL REQUIREMENTS

1. Usability:

Regardless of the size of your business, the website of your business should be easy to use for even a non-technical user. Do you know that a general user takes just 0.05 seconds to figure out whether the website is worth its time or not? Thus you have to give special attention to the design of your homepage, CTAs, and easy checkout to get past those milliseconds of doom. The usability of a website is also defined by:

- How easily a user can achieve their target in a single page visit
- How quickly they can perform tasks in the store
- The memorable & intuitiveness of the design
- Number and types of errors users make

2. Security:

Security comes with utmost importance if your site is dealing with monetary transactions, users' financial and sensitive data. Using an SSL certificate and data privacy policy will create trust among the users for your website and convert the customers into brand advocates. It is also considered for the different admin roles by which you can control who can create, see, copy, change or delete information. Depending upon the location of your business, security also refers to compliance with customer data protection rules such as GDPR in Europe.

3. Performance:

For increasing the traffic on your website, you have to give special attention to the performance in the non-functional requirements documentation. The focus should be on loading the e-commerce store as fast as possible regardless of the number of integrations and traffic on your website. You can set up the speed benchmark, maximum SKUs which you want to add, or any other performance indicator best for your business. Don't consider the 3rd party system delivery time, because the developers will not have control over the 3rd party API calls.

4. Maintainability:

The operational costs for maintenance are the tricky part of planning a business budget. Thriving the website maintenance from the initial development means cutting the time & cost to determine and resolve the faults of the system in the future. Well, it sounds sad but there is no way to avoid issues in the future and you have to look for a website development company that can maintain your website.

5. Scalability:

Last but not the least, you have to look for a future-proof solution considering the scalability. It will define how the website can grow and increase its features and functionality without impacting the performance of your website. You must be able to add more memory, servers, or disc space for making more transactions on your website. On the server side, while entering new markets you may need to add localization features. Overall, this NFR accounts for painless business expansion and has both hardware and software implications.

4. MODELING REQUIREMENTS

4.1 UML DIAGRAMS:

UML stands for Unified Modeling Language. UML is a standardized general-purpose modeling language in the field of object-oriented software engineering. The standard is managed, and was created by, the Object Management Group.

The goal is for UML to become a common language for creating models of object-oriented computer software. In its current form UML comprises two major components: a Meta-model and a notation. In the future, some form of method or process may also be added to; or associated with, UML.

The Unified Modeling Language is a standard language for specifying, Visualization, Constructing and documenting the artifacts of software systems, as well as for business modeling and other non-software systems.

The UML represents a collection of best engineering practices that have proven successful in the modeling of large and complex systems.

The UML is a very important part of developing objects-oriented software and the software development process. The UML uses mostly graphical notations to express the design of software projects.

GOALS:

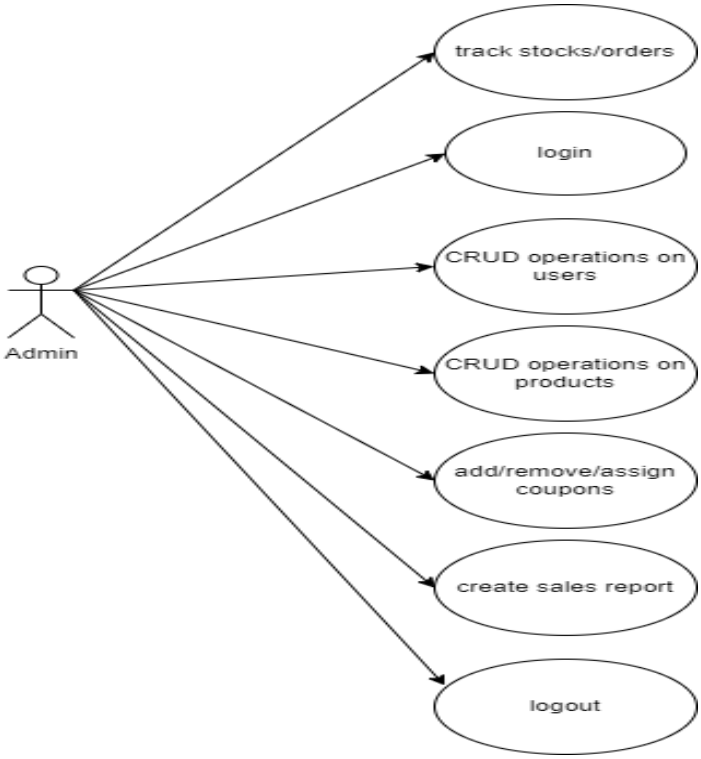
The Primary goals in the design of the UML are as follows:

1. Provide users a ready-to-use, expressive visual modeling Language so that they can develop and exchange meaningful models.
2. Provide extendibility and specialization mechanisms to extend the core concepts.
3. Be independent of particular programming languages and development processes.
4. Provide a formal basis for understanding the modeling language.
5. Encourage the growth of the tools market.
6. Support higher level development concepts such as collaborations, frameworks, patterns and components.
7. Integrate best practices

4.1.1 USE CASE DIAGRAM

A use case diagram in the Unified Modeling Language (UML) is a type of behavioral diagram defined by and created from a Use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases.

Fig. 4.1 Use Case Diagram



Admin Functionality

4.1.2 CLASS DIAGRAM

The class diagram is used to refine the use case diagram and define a detailed design of the system. The class diagram classifies the actors defined in the use case diagram into a set of interrelated classes. The relationship or association between the classes can be either an "is-a" or "has-a" relationship. Each class in the class diagram may be capable of providing certain functionalities. These functionalities provided by the class are termed "methods" of the class. Apart from this, each class may have certain "attributes" that uniquely identify the class.

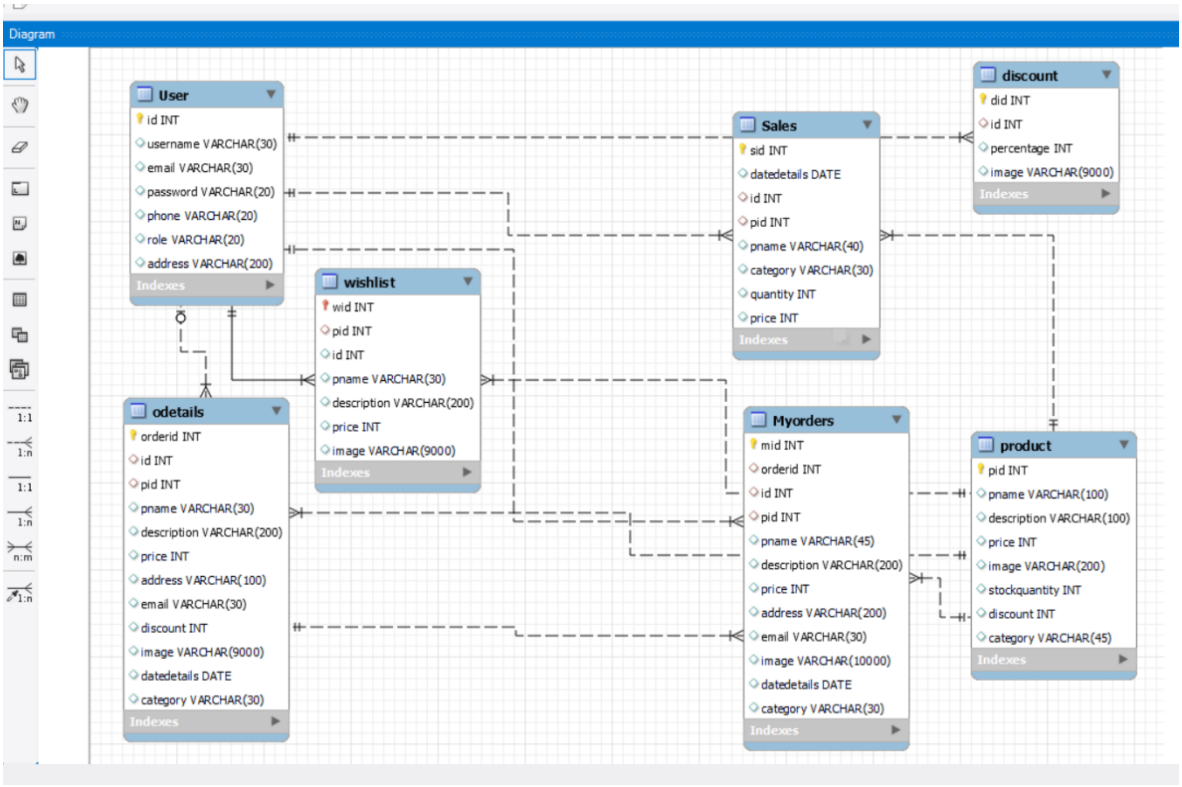


Fig. 4.2 Class Diagram

4.1.3 STATE CHART DIAGRAM

A state diagram, as the name suggests, represents the different states that objects in the system undergo during their life cycle. Objects in the system change states in response to events. In addition to this, a state diagram also captures the transition of the object's state from an initial state to a final state in response to events affecting the system.

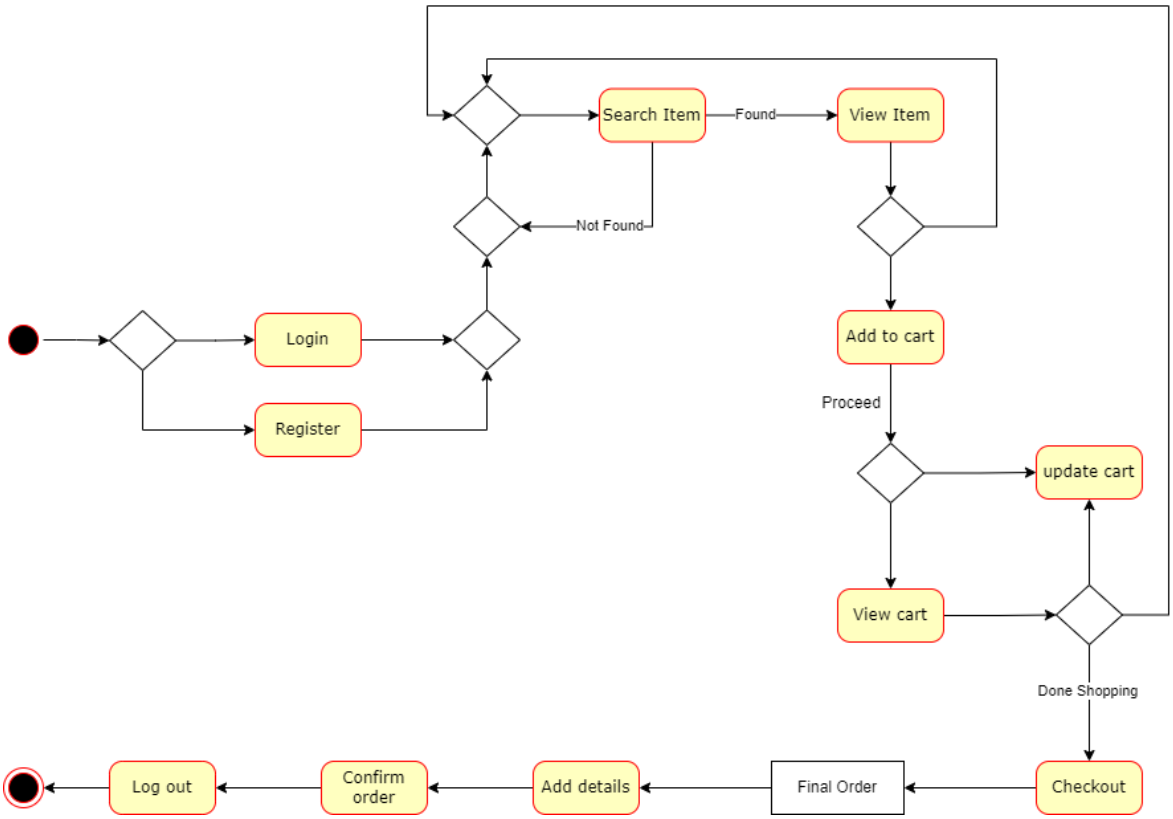


Fig. 4.3 State Chart Diagram

4.1.4 ACTIVITY DIAGRAM:

The process flows in the system are captured in the activity diagram. Similar to a state diagram, an activity diagram also consists of activities, actions, transitions, initial and final states, and guard conditions.

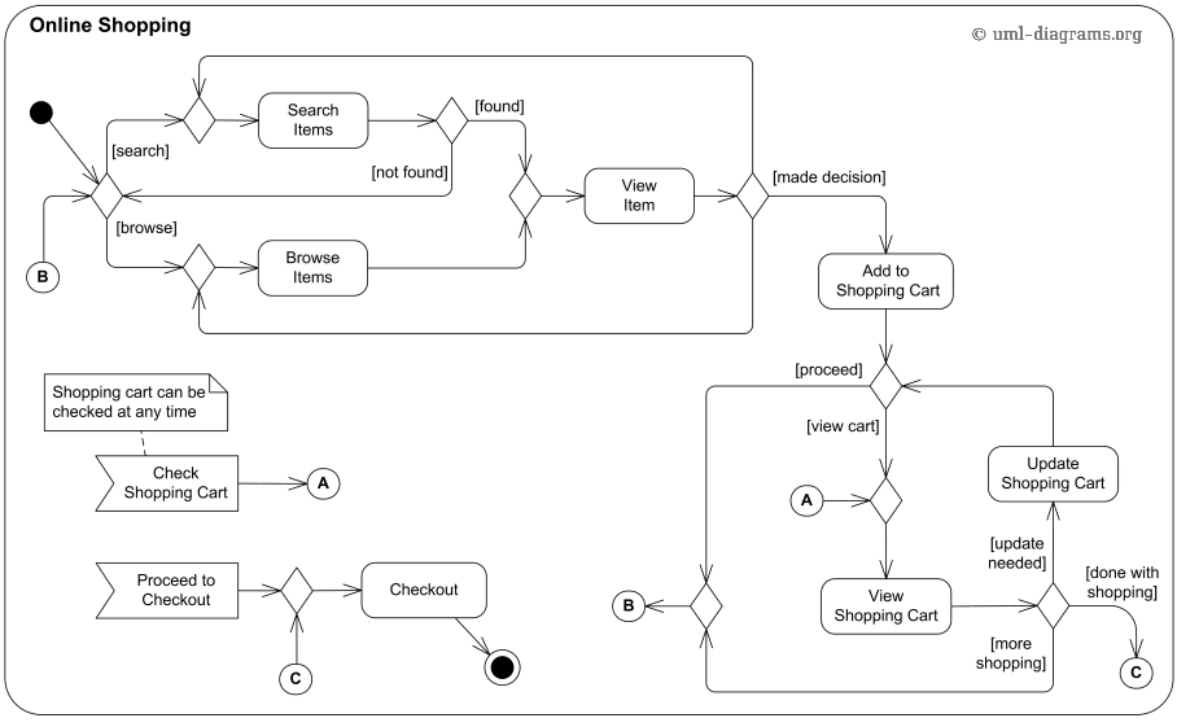


Fig. 4.4 Activity Diagram

4.1.5 SEQUENCE DIAGRAM:

A sequence diagram represents the interaction between different objects in the system. The important aspect of a sequence diagram is that it is time-ordered. This means that the exact sequence of the interactions between the objects is represented step by step. Different objects in the sequence diagram interact with each other by passing "messages".

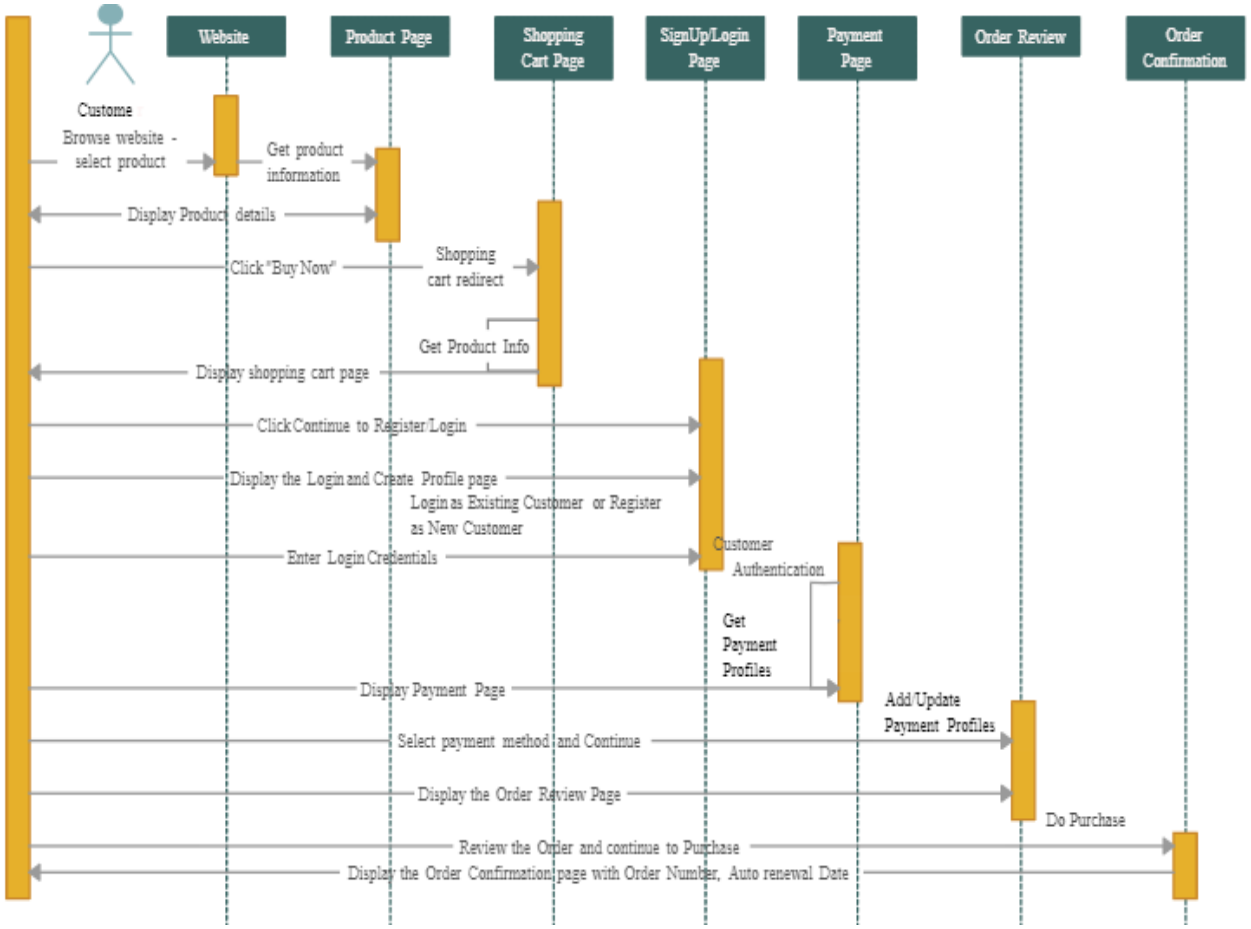


Fig. 4.5 Sequence Diagram

4.3 DATA FLOW DIAGRAM

The flow chart diagram is a special kind of class diagram. The flow chart diagram depicts the flow of the process or algorithm using a set of symbols. The flow chart diagram is a pictorial representation of the algorithm or working of the algorithm.

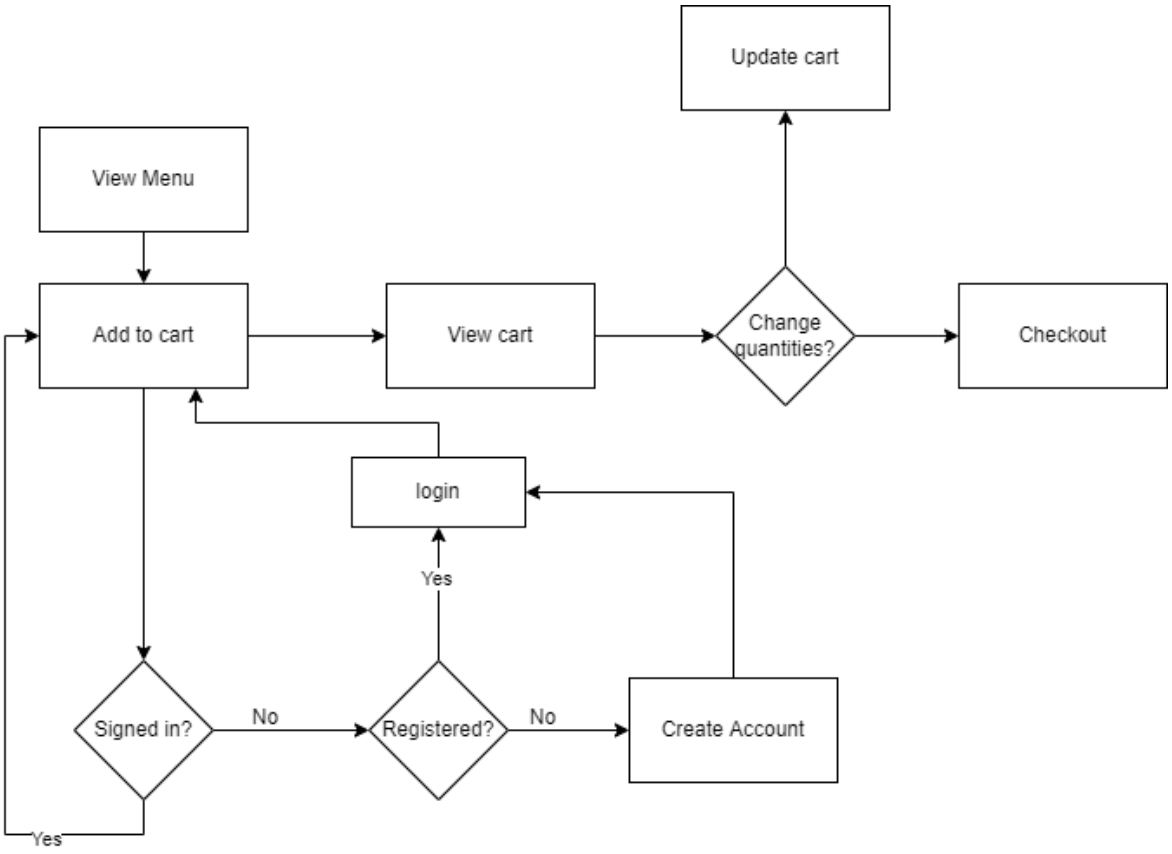


Fig 4.6 Data Flow Diagram

5. IMPLEMENTATION

We will implement a simple e-commerce application. We'll develop an API using Spring Boot and a client application that will consume the API using Angular. Basically, the user will be able to add/remove products from a product list to/from a shopping cart and to place an order.

5.1 TECHNOLOGY USED

In below I would like to explain which technologies are used in this project. It’s helpful for understand the project layouts & overview of documentation.

Back-end

1. Java
2. Spring Boot
3. Spring Microservices
4. Hibernate
5. MySQL
6. Maven

Front-end

1. Angular
2. Bootstrap

5.2 IMPLEMENTATION STEPS

First you need to start back-end server, after that execute client side. Follow below steps to run this application on your system.

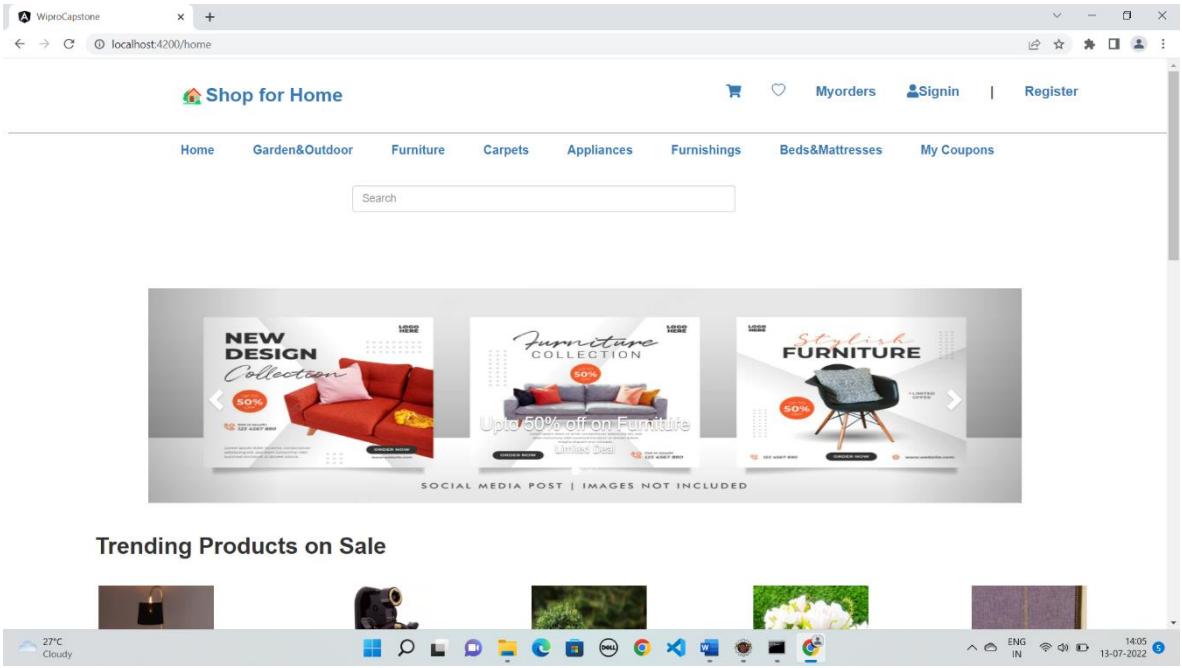
1. First Install Java 11 jdk, Vs code, Eclipse, MySQL
2. From project folder open front end and there open cmd.
3. Run this command -- **code .(it will open the project in vs code).**
4. Run **npm install** from vs code terminal
5. Run ng serve
6. After the successful compiling you got this link in terminal localhost/4200.
7. Open this link in google chrome
8. Start Eureka server from eclipse
9. Start all microservices from eclipse

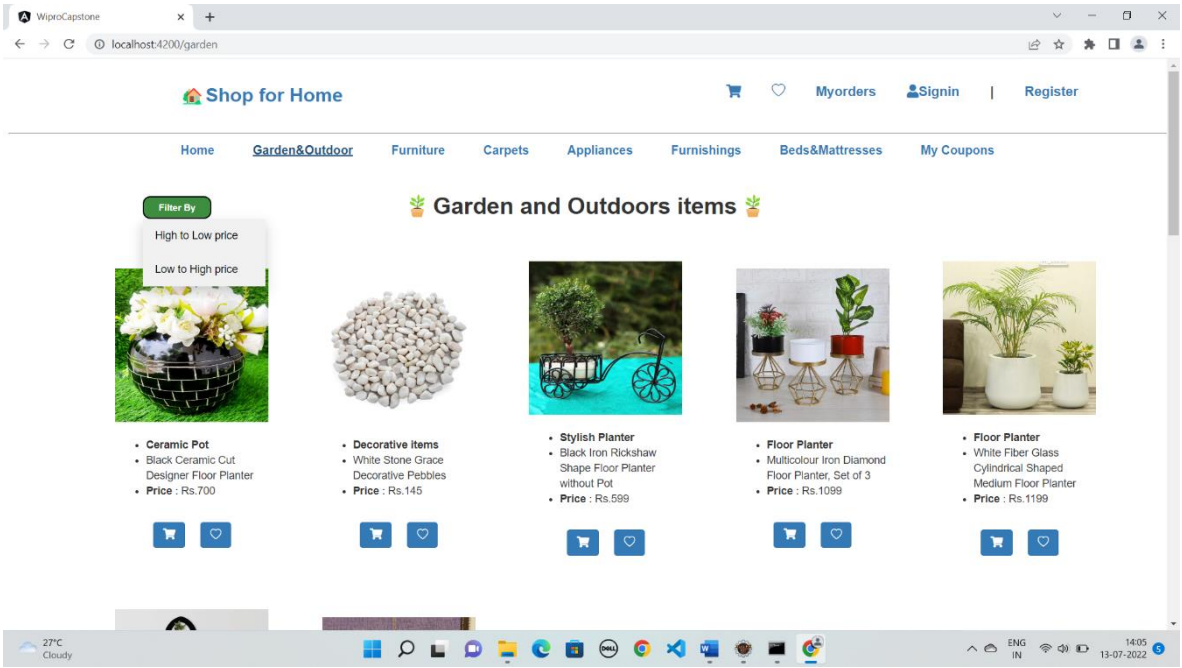
Database

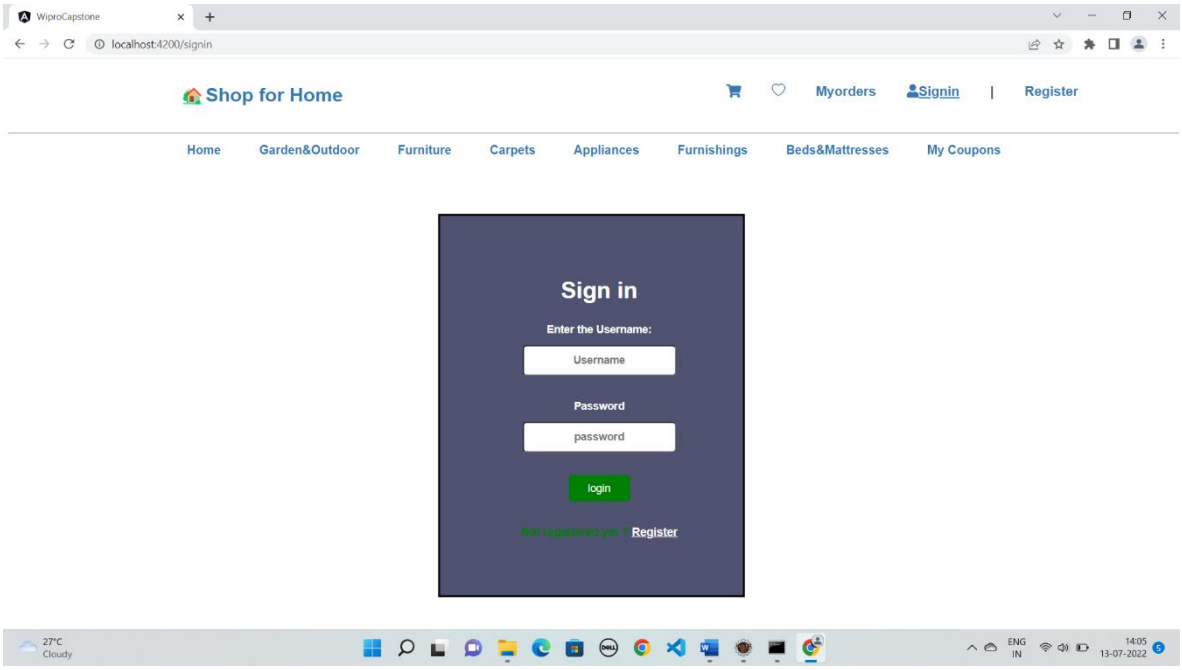
1. Install MySQL
2. After installation search MySQL workbench in your computer
3. Open backend folder and run database.sql file using mysql workbench.
4. Run all the queries in it.

6. RESULTS

FRONT END DESIGN:



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Shop for Home
Myorders
Signin
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Home
Garden&Outdoor
Furniture
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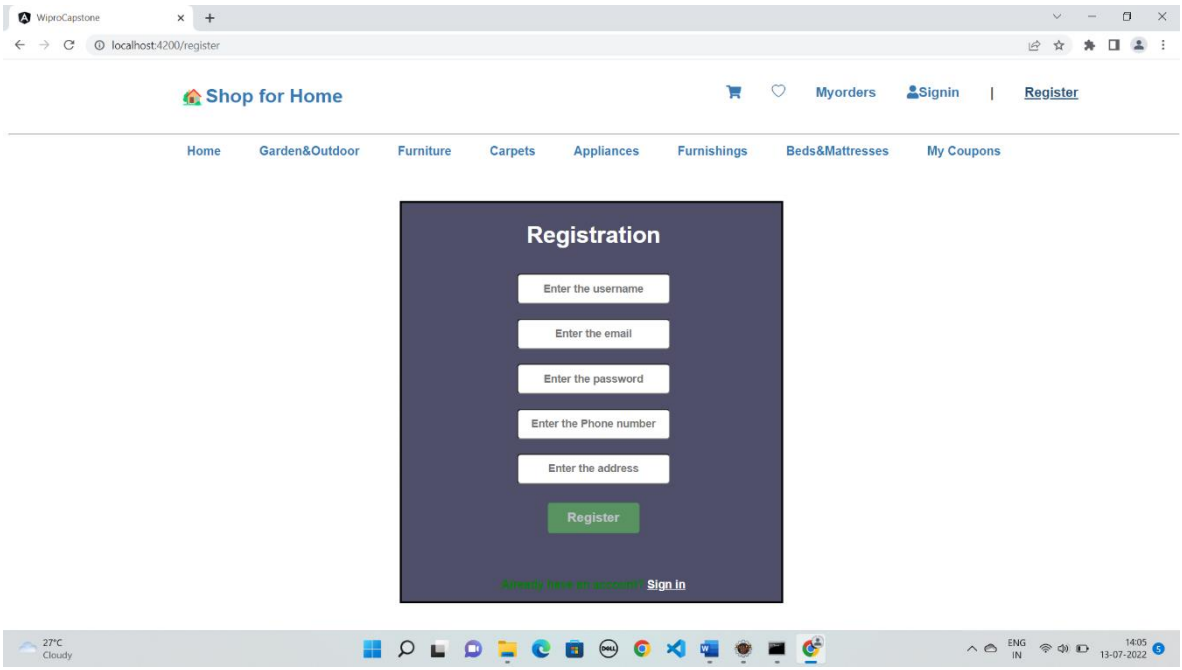
Furnishings
Beds&Mattresses
My Coupons
Sign in
Enter the Username:
Username
Password
password
login
Register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Furniture
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Appliances
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My Coupons
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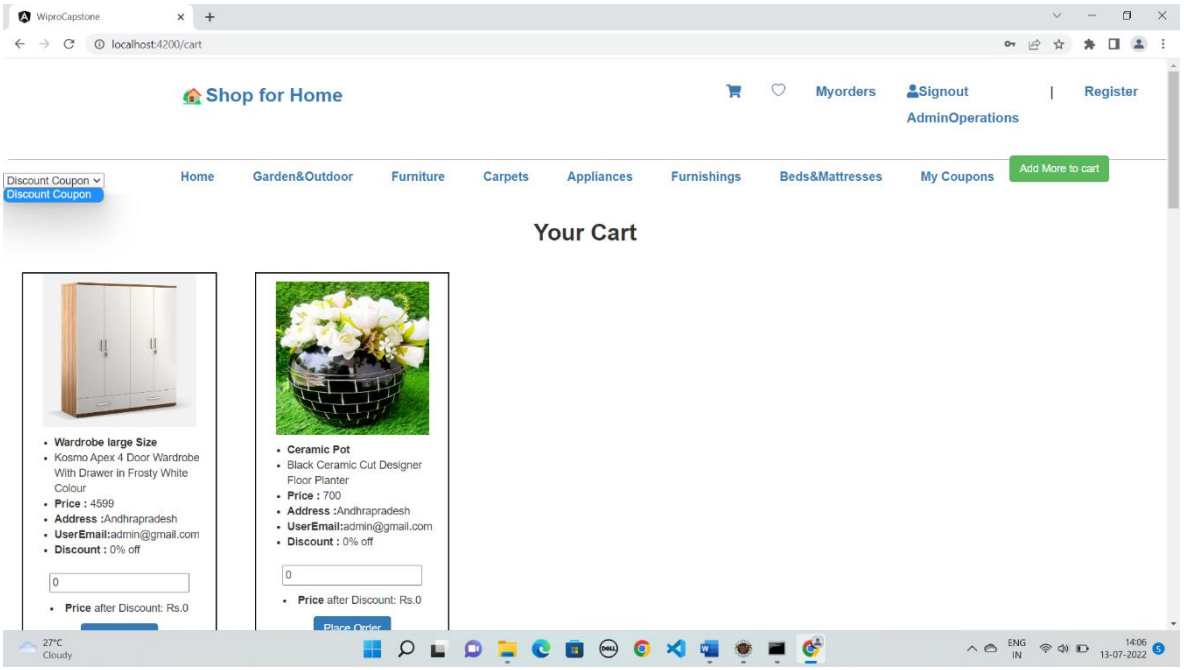
Enter the username
Enter the email
Enter the password
Enter the Phone number
Enter the address
Register
Sign in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My Coupons
Add More to cart
Discount Coupon
Discount Coupon
Your Cart
Wardrobe large Size
Kosmo Apex 4 Door Wardrobe With Drawer in Frosty White Colour
Price : 4599
Address :Andhrapradesh
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Discount : 0% off
0
Price after Discount: Rs.0
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Black Ceramic Cut Designer Floor Planter
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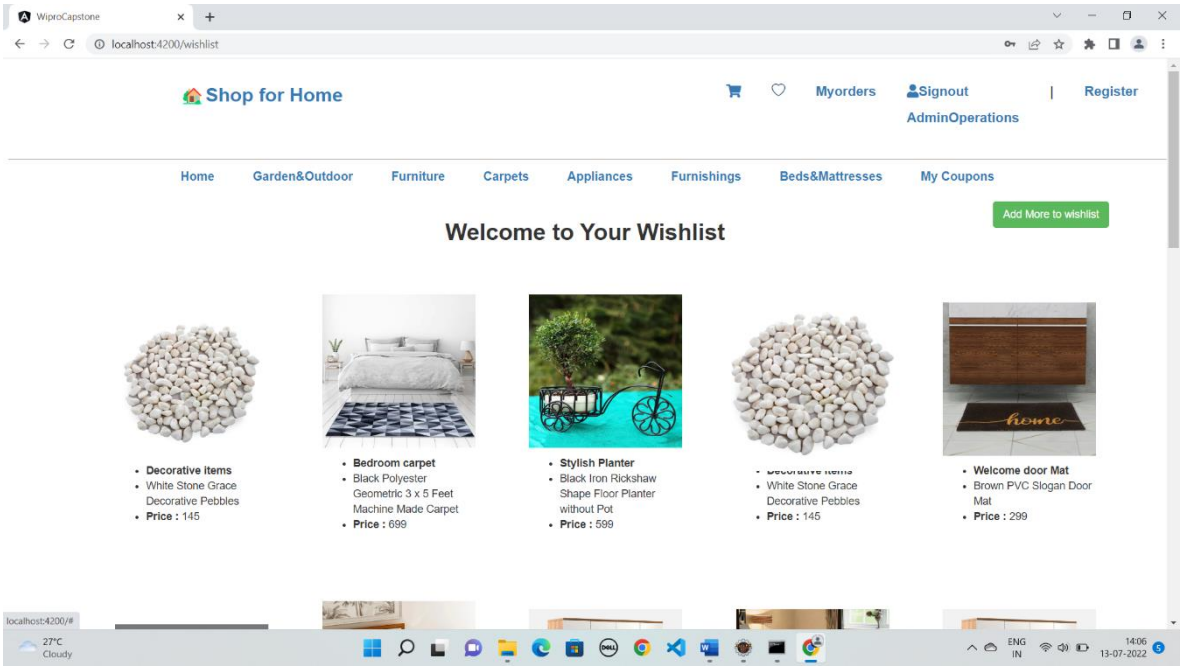
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Appliances
Furnishings
Beds&Mattresses
My Coupons
Add More to wishlist
Welcome to Your Wishlist
Decorative items
White Stone Grace Decorative Pebbles
Price : 145
Bedroom carpet
Black Polyester Geometric 3 x 5 Feet Machine Made Carpet
Price : 699
Stylish Planter
Black Iron Rickshaw Shape Floor Planter without Pot
Price : 599
White Stone Grace Decorative Pebbles
Price : 145
Welcome door Mat
Brown PVC Slogan Door Mat
Price : 299
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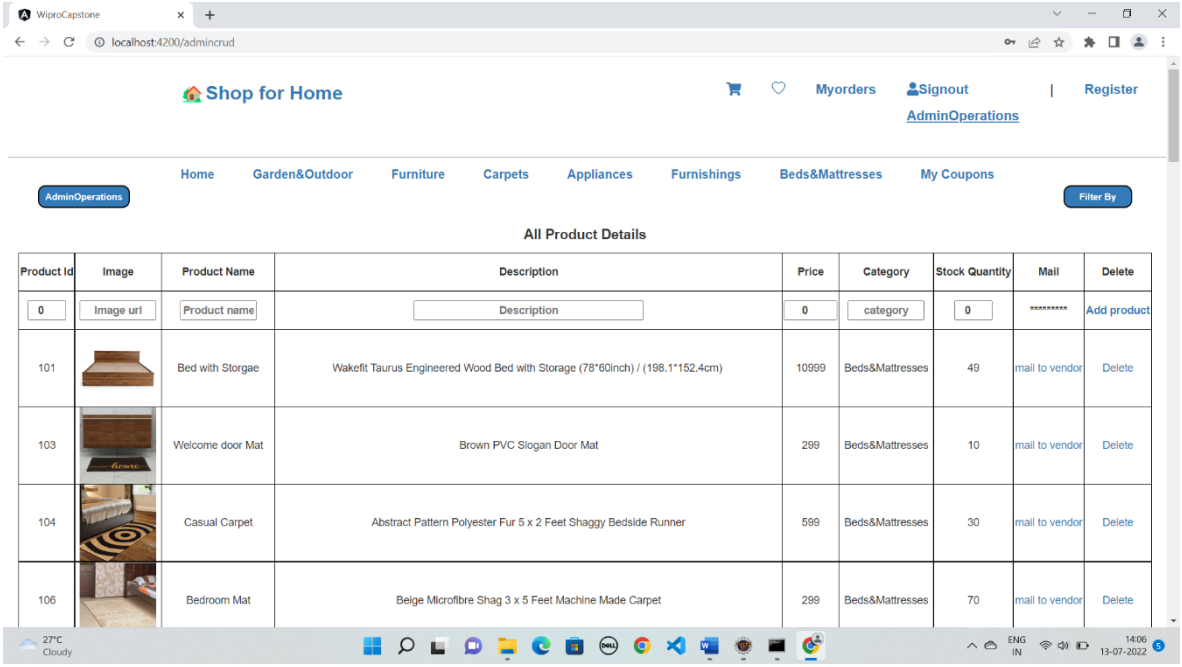
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Appliances
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Beds&Mattresses
My Coupons
AdminOperations
Filter By
All Product Details
Product Id
Image
Product Name
Description
Price
Category
Stock Quantity
Mail
Delete
0
Image url
Product name
Description
0
category
0
****
Add product
101
Bed with Storgae
Wakefit Taurus Engineered Wood Bed with Storage (78*60inch) / (198.1*152.4cm)
10999
Beds&Mattresses
49
mail to vendor
Delete
103
Welcome door Mat
Brown PVC Slogan Door Mat
299
Beds&Mattresses
10
mail to vendor
Delete
104
Casual Carpet
Abstract Pattern Polyester Fur 5 x 2 Feet Shaggy Bedside Runner
599
Beds&Mattresses
30
mail to vendor
Delete
106
Bedroom Mat
Beige Microfibre Shag 3 x 5 Feet Machine Made Carpet
299
Beds&Mattresses
70
mail to vendor
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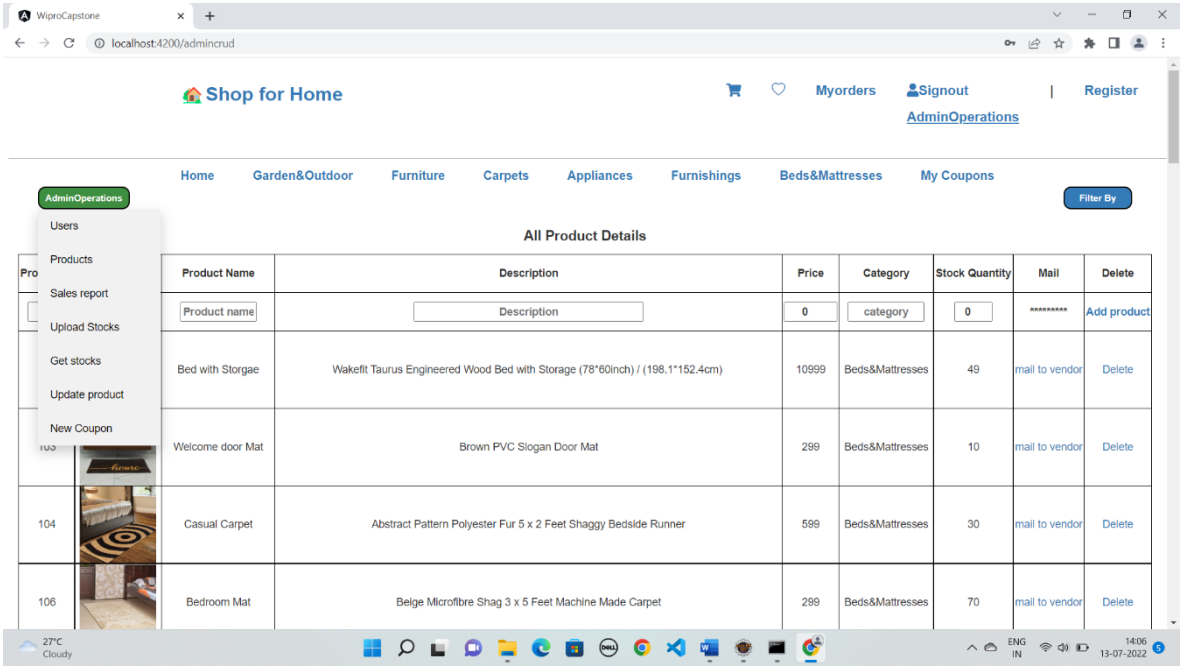
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Furnishings
Beds&Mattresses
My Coupons
AdminOperations
Users
Products
Sales report
Upload Stocks
Get stocks
Update product
New Coupon
Filter By
All Product Details
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Price
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Stock Quantity
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category
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Wakefit Taurus Engineered Wood Bed with Storage (78*60inch) / (198.1*152.4cm)
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Beds&Mattresses
49
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Delete
Welcome door Mat
Brown PVC Slogan Door Mat
299
Beds&Mattresses
10
mail to vendor
Delete
104
Casual Carpet
Abstract Pattern Polyester Fur 5 x 2 Feet Shaggy Bedside Runner
599
Beds&Mattresses
30
mail to vendor
Delete
106
Bedroom Mat
Beige Microfibre Shag 3 x 5 Feet Machine Made Carpet
299
Beds&Mattresses
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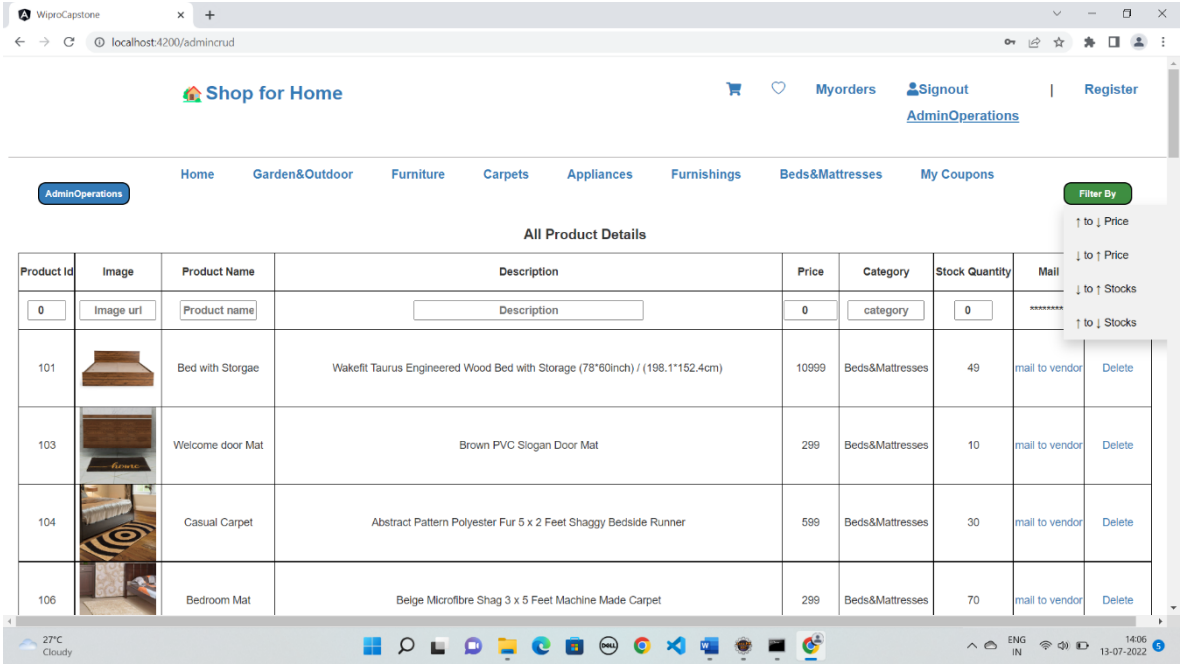
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Furnishings
Beds&Mattresses
My Coupons
AdminOperations
Filter By
↑ to ↓ Price
↓ to ↑ Price
↓ to ↑ Stocks
↑ to ↓ Stocks
All Product Details
Product Id
Image
Product Name
Description
Price
Category
Stock Quantity
Mail
Image url
Product name
Description
category
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Wakefit Taurus Engineered Wood Bed with Storage (78*60inch) / (198.1*152.4cm)
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Brown PVC Slogan Door Mat
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Beds&Mattresses
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Casual Carpet
Abstract Pattern Polyester Fur 5 x 2 Feet Shaggy Bedside Runner
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Beds&Mattresses
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Bedroom Mat
Beige Microfibre Shag 3 x 5 Feet Machine Made Carpet
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Beds&Mattresses
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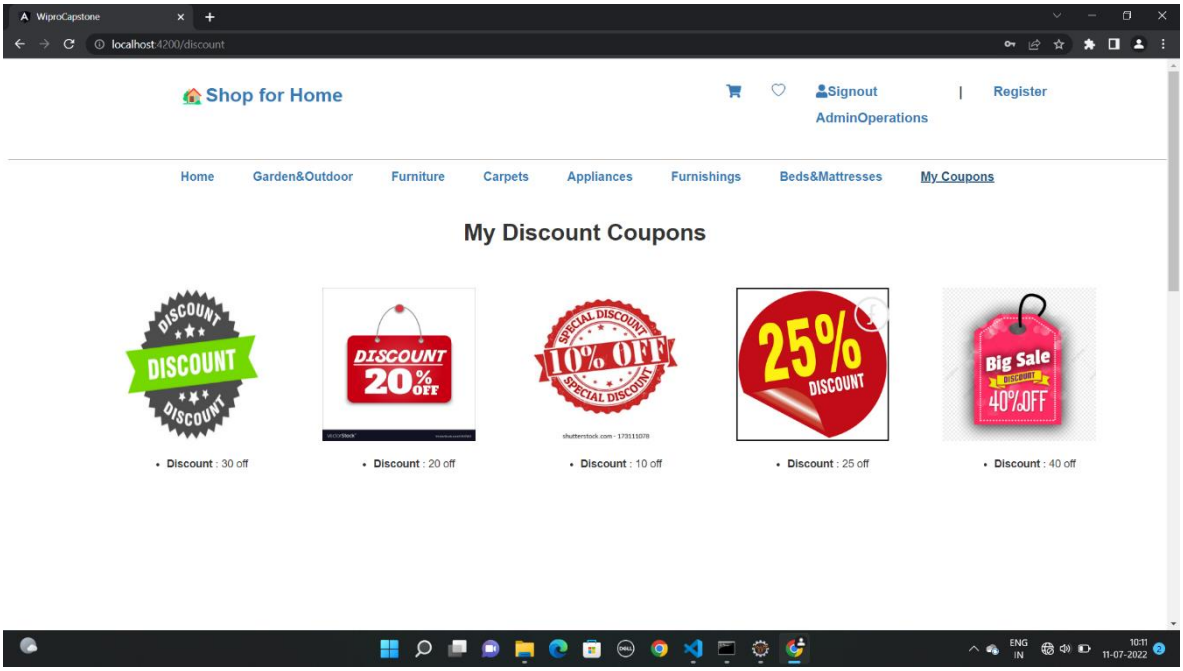
WiproCapstone
localhost:4200/discount
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Signout
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Furniture
Carpets
Appliances
Furnishings
Beds&Mattresses
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My Discount Coupons
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DISCOUNT
DISCOUNT
DISCOUNT
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SPECIAL DISCOUNT
10% OFF
SPECIAL DISCOUNT
25%
DISCOUNT
Big Sale
DISCOUNT
40%OFF
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• Discount : 20 off
• Discount : 10 off
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• Discount : 40 off
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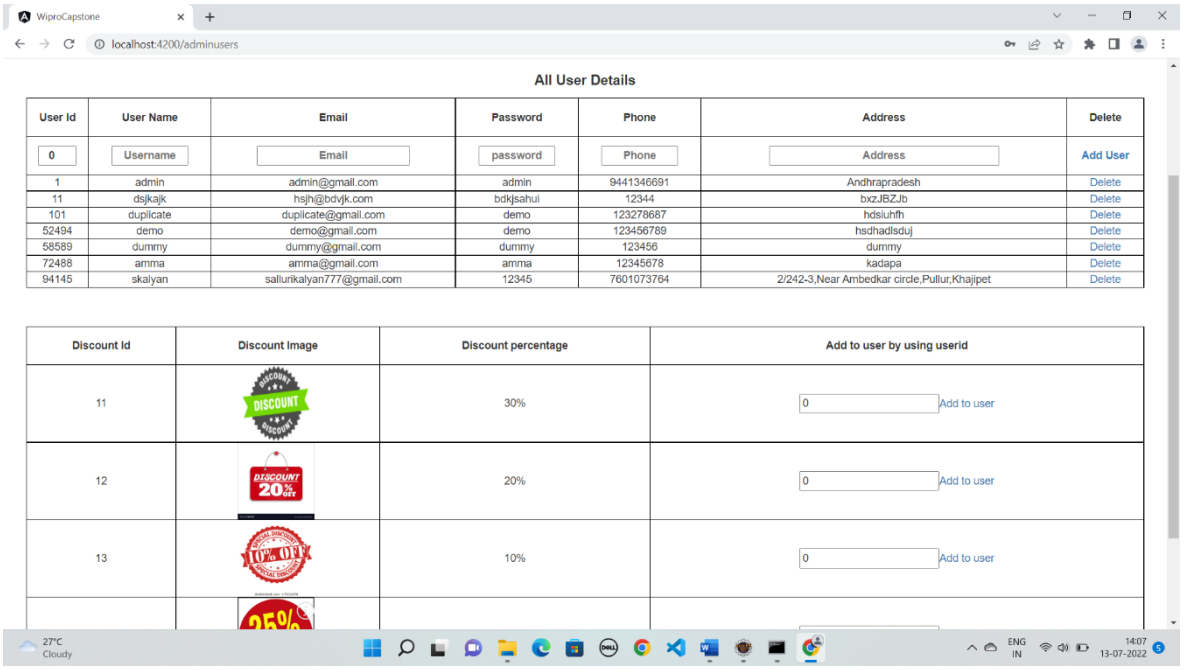
WiproCapstone
localhost:4200/adminusers
All User Details
User Id
User Name
Email
Password
Phone
Address
Delete
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Username
Email
password
Phone
Address
Add User
1 admin admin@gmail.com admin 9441346691 Andhrapradesh Delete
11 dsjkajk hsjh@bdvjk.com bdkjsahui 12344 bxzJBZJb Delete
101 duplicate duplicate@gmail.com demo 123278687 hdsiuhfh Delete
52494 demo demo@gmail.com demo 123456789 hsdhadlsduj Delete
58589 dummy dummy@gmail.com dummy 123456 dummy Delete
72488 amma amma@gmail.com amma 12345678 kadapa Delete
94145 skalyan sallurikalyan777@gmail.com 12345 7601073764 2/242-3,Near Ambedkar circle,Pullur,Khajipet Delete
Discount Id
Discount Image
Discount percentage
Add to user by using userid
11 30% 0 Add to user
12 20% 0 Add to user
13 10% 0 Add to user
27°C Cloudy
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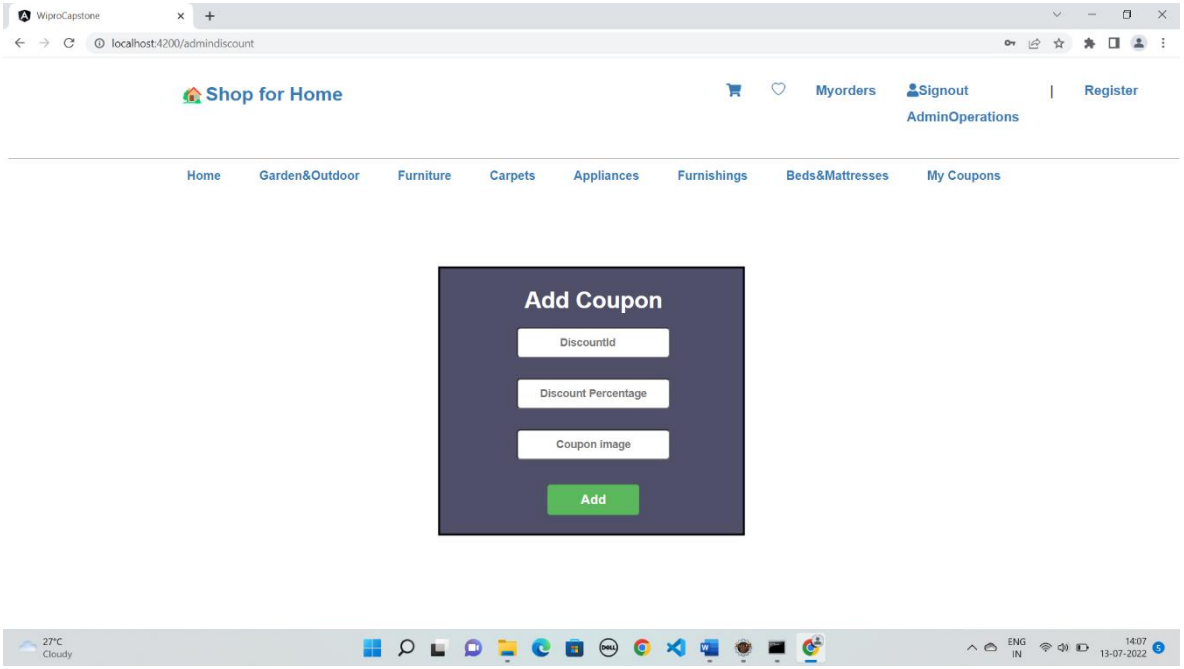
14:07 13-07-2022


WiproCapstone
localhost:4200/admindiscount
Shop for Home
Myorders
Signout
Register
AdminOperations
Home
Garden&Outdoor
Furniture
Carpets
Appliances
Furnishings
Beds&Mattresses
My Coupons
Add Coupon
DiscountId
Discount Percentage
Coupon image
Add
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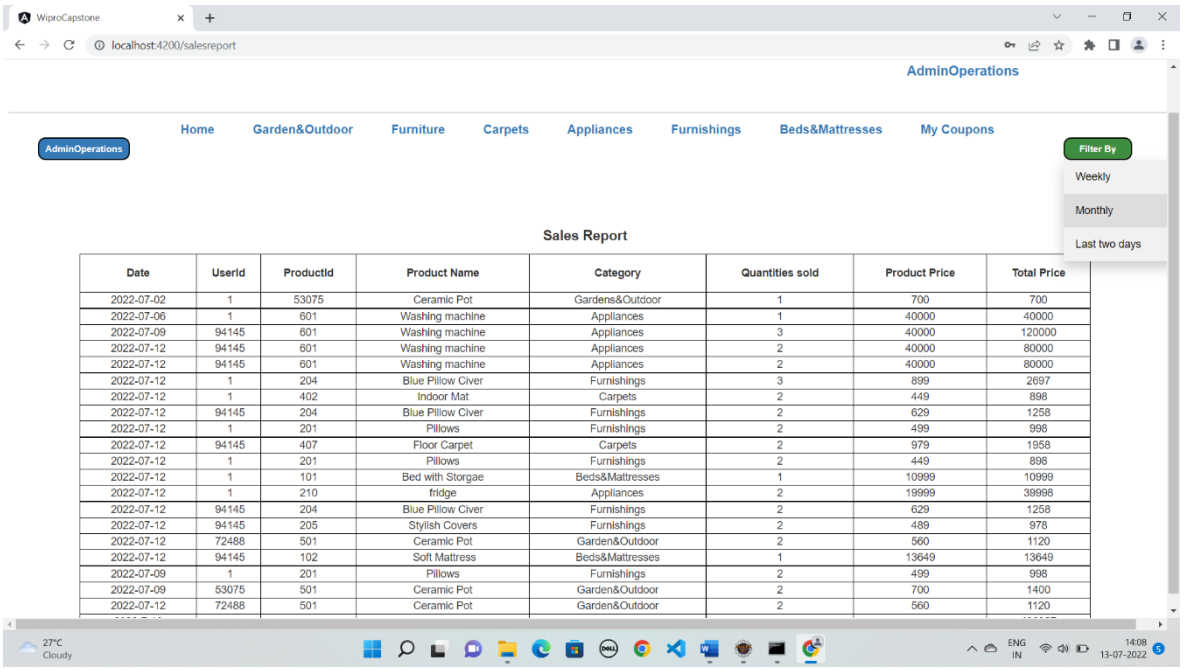
WiproCapstone
localhost:4200/salesreport
AdminOperations
Home
Garden&Outdoor
Furniture
Carpets
Appliances
Furnishings
Beds&Mattresses
My Coupons
AdminOperations
Filter By
Weekly
Monthly
Last two days
Sales Report
Date
UserId
ProductId
Product Name
Category
Quantities sold
Product Price
Total Price
2022-07-02 1 53075 Ceramic Pot Gardens&Outdoor 1 700 700
2022-07-06 1 601 Washing machine Appliances 1 40000 40000
2022-07-09 94145 601 Washing machine Appliances 3 40000 120000
2022-07-12 94145 601 Washing machine Appliances 2 40000 80000
2022-07-12 94145 601 Washing machine Appliances 2 40000 80000
2022-07-12 1 204 Blue Pillow Civer Furnishings 3 899 2697
2022-07-12 1 402 Indoor Mat Carpets 2 449 898
2022-07-12 94145 204 Blue Pillow Civer Furnishings 2 629 1258
2022-07-12 1 201 Pillows Furnishings 2 499 998
2022-07-12 94145 407 Floor Carpet Carpets 2 979 1958
2022-07-12 1 201 Pillows Furnishings 2 449 898
2022-07-12 1 101 Bed with Storgae Beds&Mattresses 1 10999 10999
2022-07-12 1 210 fridge Appliances 2 19999 39998
2022-07-12 94145 204 Blue Pillow Civer Furnishings 2 629 1258
2022-07-12 94145 205 Stylish Covers Furnishings 2 489 978
2022-07-12 72488 501 Ceramic Pot Garden&Outdoor 2 560 1120
2022-07-12 94145 102 Soft Mattress Beds&Mattresses 1 13649 13649
2022-07-09 1 201 Pillows Furnishings 2 499 998
2022-07-09 53075 501 Ceramic Pot Garden&Outdoor 2 700 1400
2022-07-12 72488 501 Ceramic Pot Garden&Outdoor 2 560 1120
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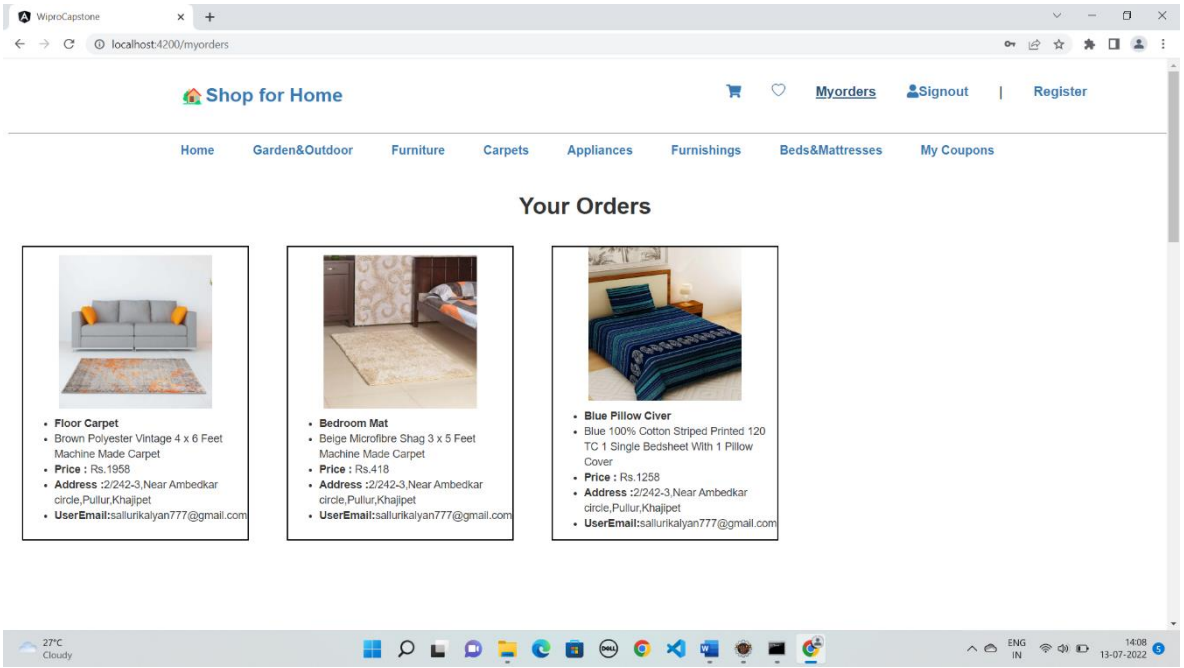
WiproCapstone
localhost:4200/myorders
Shop for Home
Myorders
Signout
|
Register
Home
Garden&Outdoor
Furniture
Carpets
Appliances
Furnishings
Beds&Mattresses
My Coupons
Your Orders
Floor Carpet
Brown Polyester Vintage 4 x 6 Feet Machine Made Carpet
Price : Rs.1958
Address :2/242-3,Near Ambedkar circle,Pullur,Khajipet
UserEmail:sallurikalyan777@gmail.com
Bedroom Mat
Beige Microfibre Shag 3 x 5 Feet Machine Made Carpet
Price : Rs.418
Address :2/242-3,Near Ambedkar circle,Pullur,Khajipet
UserEmail:sallurikalyan777@gmail.com
Blue Pillow Civer
Blue 100% Cotton Striped Printed 120 TC 1 Single Bedsheet With 1 Pillow Cover
Price : Rs.1258
Address :2/242-3,Near Ambedkar circle,Pullur,Khajipet
UserEmail:sallurikalyan777@gmail.com
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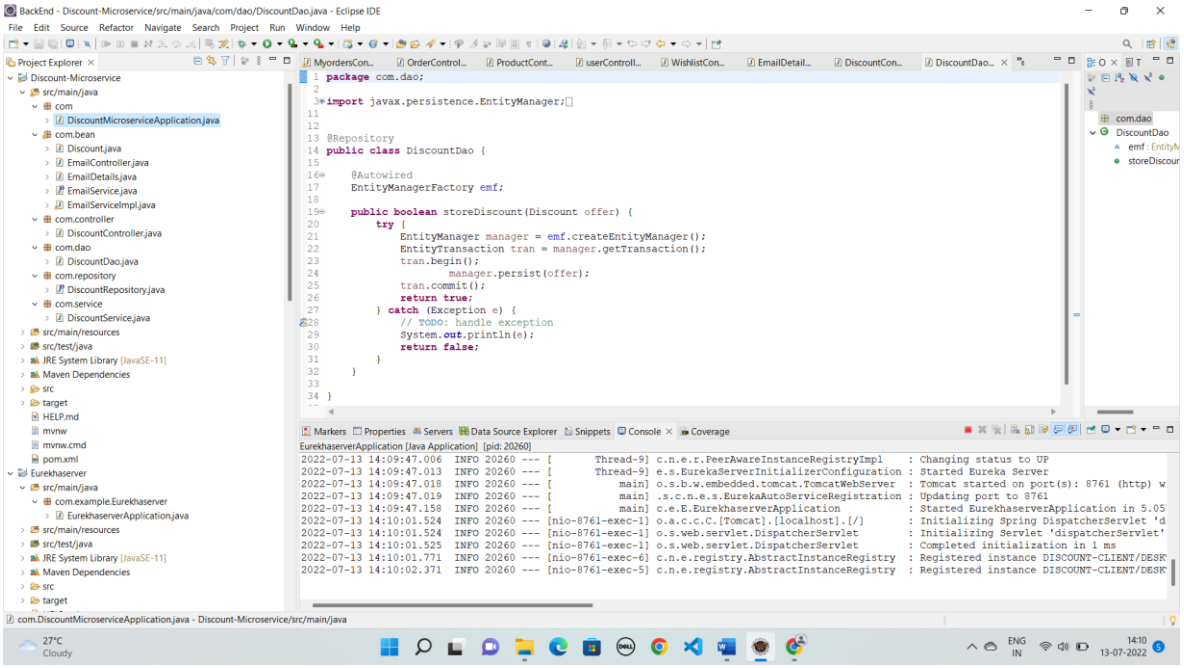
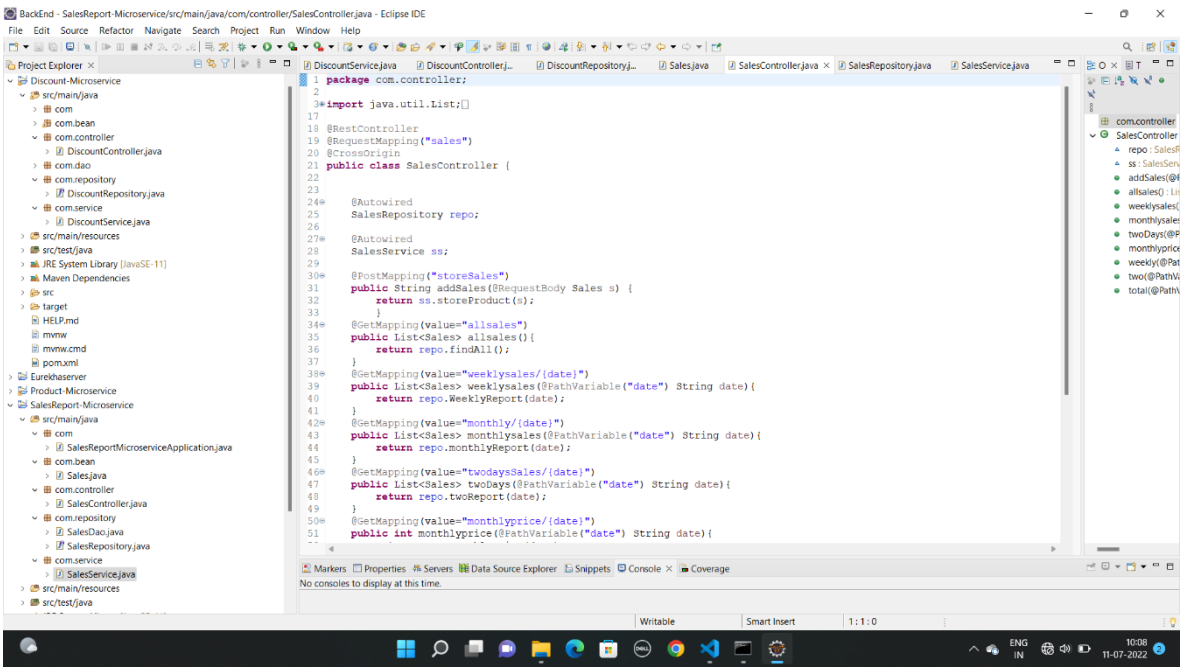
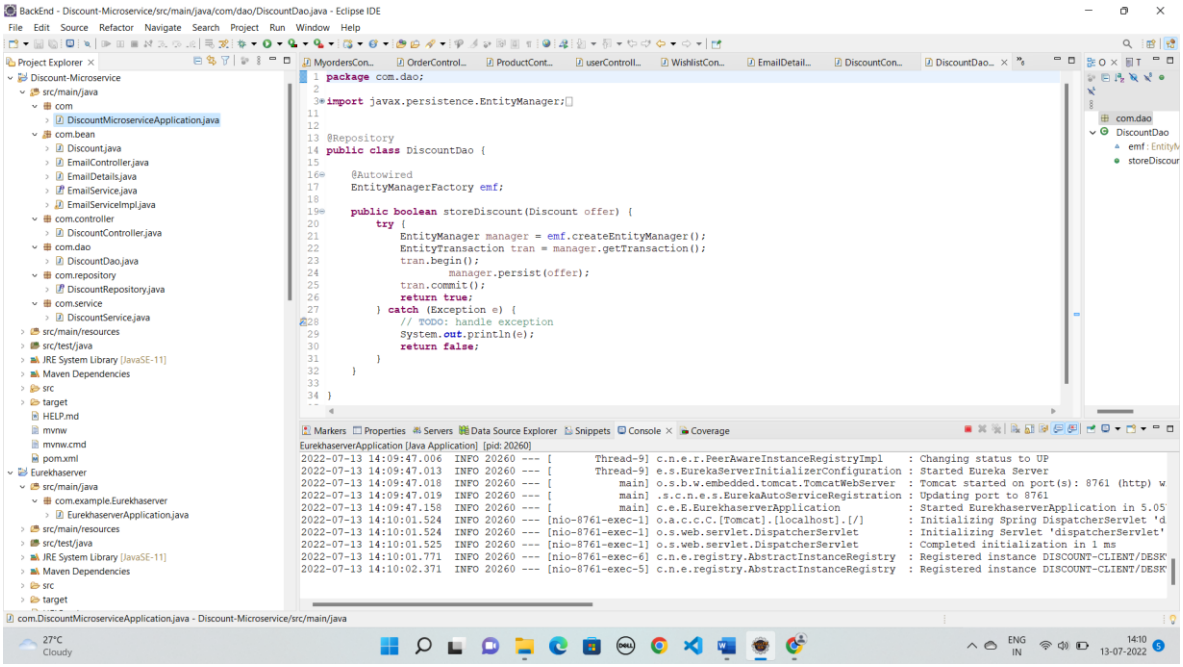
13-07-2022

BACKEND MICROSERVICES:






BackEnd - Discount-Microservice/src/main/java/com/dao/DiscountDao.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Discount-Microservice
src/main/java
com
DiscountMicroserviceApplication.java
com.bean
Discount.java
EmailController.java
EmailDetails.java
EmailService.java
EmailServiceImpl.java
com.controller
DiscountController.java
com.dao
DiscountDao.java
com.repository
DiscountRepository.java
com.service
DiscountService.java
src/main/resources
src/test/java
JRE System Library [JavaSE-11]
Maven Dependencies
src
target
HELP.md
mvnw
mvnw.cmd
pom.xml
Eurekhaserver
src/main/java
com.example.Eurekhaserver
EurekhaserverApplication.java
src/main/resources
src/test/java
JRE System Library [JavaSE-11]
Maven Dependencies
src
target
MyordersCon...
OrderControl...
ProductCont...
userControll...
WishlistCon...
EmailDetail...
DiscountCon...
DiscountDao...
1 package com.dao;
3 import javax.persistence.EntityManager;
13 @Repository
14 public class DiscountDao {
16 @Autowired
17 EntityManagerFactory emf;
19 public boolean storeDiscount(Discount offer) {
20 try {
21 EntityManager manager = emf.createEntityManager();
22 EntityTransaction tran = manager.getTransaction();
23 tran.begin();
24 manager.persist(offer);
25 tran.commit();
26 return true;
27 } catch (Exception e) {
28 // TODO: handle exception
29 System.out.println(e);
30 return false;
31 }
32 }
34 }
com.dao
DiscountDao
emf : EntityM
storeDiscour
Markers Properties Servers Data Source Explorer Snippets Console Coverage
EurekhaserverApplication [Java Application] [pid: 20260]
2022-07-13 14:09:47.006 INFO 20260 --- [Thread-9] c.n.e.r.PeerAwareInstanceRegistryImpl : Changing status to UP
2022-07-13 14:09:47.013 INFO 20260 --- [Thread-9] e.s.EurekaServerInitializerConfiguration : Started Eureka Server
2022-07-13 14:09:47.018 INFO 20260 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8761 (http) w
2022-07-13 14:09:47.019 INFO 20260 --- [main] .s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 8761
2022-07-13 14:09:47.158 INFO 20260 --- [main] c.e.E.EurekhaserverApplication : Started EurekhaserverApplication in 5.05
2022-07-13 14:10:01.524 INFO 20260 --- [nio-8761-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'd
2022-07-13 14:10:01.524 INFO 20260 --- [nio-8761-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2022-07-13 14:10:01.525 INFO 20260 --- [nio-8761-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms
2022-07-13 14:10:01.771 INFO 20260 --- [nio-8761-exec-6] c.n.e.registry.AbstractInstanceRegistry : Registered instance DISCOUNT-CLIENT/DESK
2022-07-13 14:10:02.371 INFO 20260 --- [nio-8761-exec-5] c.n.e.registry.AbstractInstanceRegistry : Registered instance DISCOUNT-CLIENT/DESK
com.DiscountMicroserviceApplication.java - Discount-Microservice/src/main/java
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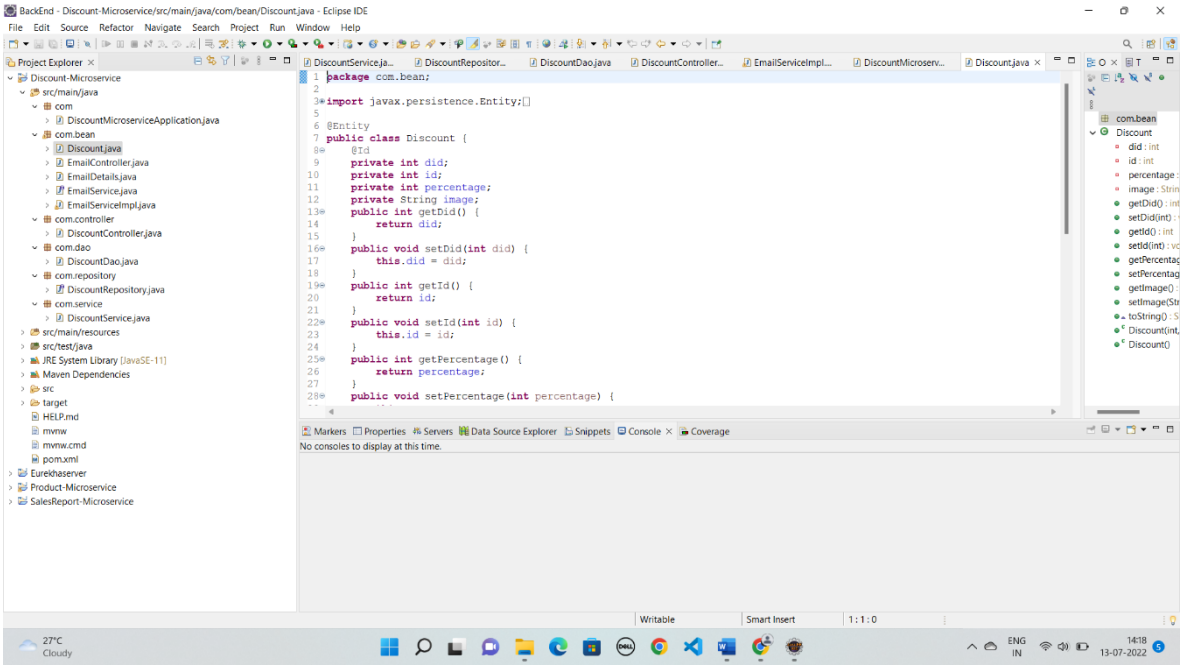
BackEnd - Discount-Microservice/src/main/java/com/bean/Discount.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Discount-Microservice
src/main/java
com
DiscountMicroserviceApplication.java
com.bean
Discount.java
EmailController.java
EmailDetails.java
EmailService.java
EmailServiceImpl.java
com.controller
DiscountController.java
com.dao
DiscountDao.java
com.repository
DiscountRepository.java
com.service
DiscountService.java
src/main/resources
src/test/java
JRE System Library [JavaSE-11]
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target
HELP.md
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pom.xml
Eurekhaserver
Product-Microservice
SalesReport-Microservice
DiscountServiceJa...
DiscountRepositor...
DiscountDao.java
DiscountController...
EmailServiceImpl...
DiscountMicroserv...
Discount.java
1 package com.bean;
3 import javax.persistence.Entity;
6 @Entity
7 public class Discount {
8 @Id
9 private int did;
10 private int id;
11 private int percentage;
12 private String image;
13 public int getDid() {
14 return did;
15 }
16 public void setDid(int did) {
17 this.did = did;
18 }
19 public int getId() {
20 return id;
21 }
22 public void setId(int id) {
23 this.id = id;
24 }
25 public int getPercentage() {
26 return percentage;
27 }
28 public void setPercentage(int percentage) {
com.bean
Discount
did : int
id : int
percentage :
image : Strin
getDid() : int
setDid(int) :
getId() : int
setId(int) : vo
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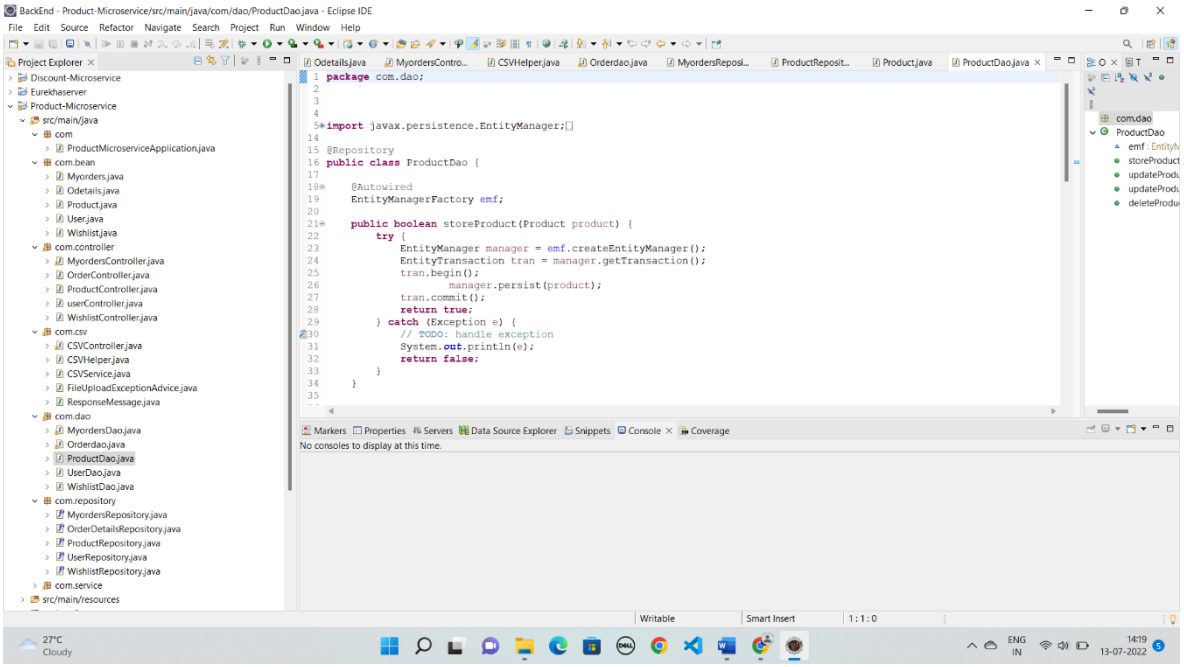
BackEnd - Product-Microservice/src/main/java/com/dao/ProductDao.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Discount-Microservice
Eurekaserver
Product-Microservice
src/main/java
com
ProductMicroserviceApplication.java
com.bean
Myorders.java
Odetails.java
Product.java
User.java
Wishlist.java
com.controller
MyordersController.java
OrderController.java
ProductController.java
userController.java
WishlistController.java
com.csv
CSVController.java
CSVHelper.java
CSVService.java
FileUploadExceptionAdvice.java
ResponseMessage.java
com.dao
MyordersDao.java
Orderdao.java
ProductDao.java
UserDao.java
WishlistDao.java
com.repository
MyordersRepository.java
OrderDetailsRepository.java
ProductRepository.java
UserRepository.java
WishlistRepository.java
com.service
src/main/resources
Odetails.java
MyordersContro...
CSVHelper.java
Orderdao.java
MyordersReposi...
ProductReposit...
Product.java
ProductDao.java
package com.dao;
import javax.persistence.EntityManager;
@Repository
public class ProductDao {
@Autowired
EntityManagerFactory emf;
public boolean storeProduct(Product product) {
try {
EntityManager manager = emf.createEntityManager();
EntityTransaction tran = manager.getTransaction();
tran.begin();
manager.persist(product);
tran.commit();
return true;
} catch (Exception e) {
// TODO: handle exception
System.out.println(e);
return false;
}
}
Markers Properties Servers Data Source Explorer Snippets Console Coverage
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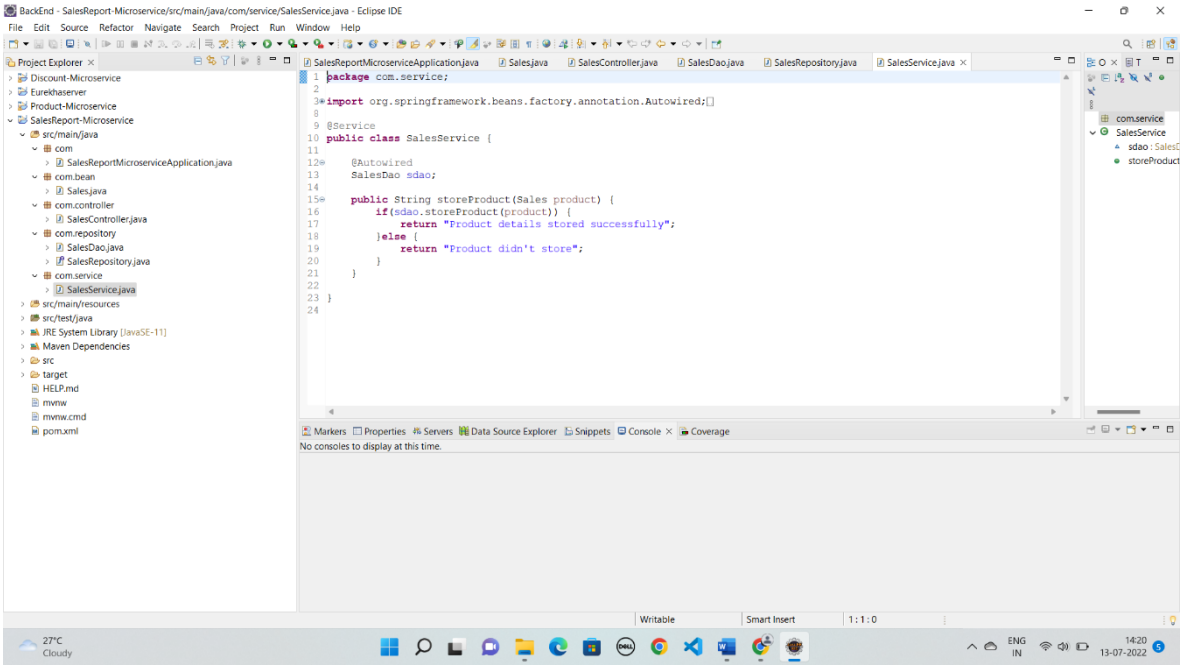
BackEnd - SalesReport-Microservice/src/main/java/com/service/SalesService.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Discount-Microservice
Eurekaserver
Product-Microservice
SalesReport-Microservice
src/main/java
com
SalesReportMicroserviceApplication.java
com.bean
Sales.java
com.controller
SalesController.java
com.repository
SalesDao.java
SalesRepository.java
com.service
SalesService.java
src/main/resources
src/test/java
JRE System Library [JavaSE-11]
Maven Dependencies
src
target
HELP.md
mvnw
mvnw.cmd
pom.xml
SalesReportMicroserviceApplication.java
Sales.java
SalesController.java
SalesDao.java
SalesRepository.java
SalesService.java
package com.service;
import org.springframework.beans.factory.annotation.Autowired;
@Service
public class SalesService {
@Autowired
SalesDao sdao;
public String storeProduct(Sales product) {
if(sdao.storeProduct(product)) {
return "Product details stored successfully";
}else {
return "Product didn't store";
}
}
}
Markers Properties Servers Data Source Explorer Snippets Console Coverage
No consoles to display at this time.
com.service
SalesService
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storeProduct
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7. CONCLUSION AND FUTURE ENHANCEMENTS

7.1 CONCLUSION:

E-Commerce has undeniably become an important part of our society. The successful companies of the future will be those that take E-Commerce seriously, dedicating sufficient resources to its development. E-Commerce is not an IT issue but a whole business undertaking. Companies that use it as a reason for completely re-designing their business processes are likely to reap the greatest benefits. Moreover, E-Commerce is a helpful technology that gives the consumer access to business and companies all over the world.

7.2 FUTURE ENHANCEMENTS:

The e-commerce industry saw major traction in 2020. Technology innovation, easy scalability, increased internet penetration and changed user habits due to COVID-19 let the industry improve experiences and compete against brick-and-mortar shops.
Engaging customers directly is top priority for brands, and in this era of widespread awareness and cutthroat competition, the only way to survive is to stay ahead of the curve, identify lagging areas and capture evolving trends at the onset.

8. REFERENCES

1) https://getbootstrap.com/
2) https://developer.mozilla.org/en-US/docs/Web/HTML
3) Spring initializer : https://start.spring.io/
4) https://www.pepperfry.com/
5) https://angular.io/docs
6) https://www.w3schools.com/icons/bootstrap_icons_glyphicons.asp
7) https://www.geeksforgeeks.org/spring-boot-sending-email-via-smtp/