

PROJECT REPORT

**SHOP FOR HOME
GROUP-7
Java AWS SD C3**



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ACKNOWLEDGEMENT

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Finally, we would also like to thank our family, friends and seniors for their constant support, trust and valuable remarks that directly or indirectly made the project a whole lot better and helped us reach where we are.

OVERALL DESCRIPTION

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

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.

OPERATING ENVIRONMENT

The product will be operating in windows environment. Home décor online shop system is a website and shall operate in all famous browsers, for a model we are talking Microsoft Internet Explorer, Google Chrome and Mozilla Firefox. Also, it will be compatible with the IE 6.0. Most of the features will be compatible with the Mozilla Firefox and Opera 7.0 or higher version. The only requirement to use this online product would be the internet connection. The hardware configuration includes Hard Disk: 40GB, Monitor: 15-inch Color monitor, Keyboard: 122 keys. The basic input devices required are keyboard, mouse and output devices are monitor etc.

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.

PRODUCT FUNCTIONS

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

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.

Multiple Payment Options

Shopping cart abandonment is often a big issue for online retailers. To improve your chance of sealing the deal in the final checkout process on your website, be sure to make the purchasing stage as easy as possible for your customers by offering multiple online payment methods in the shopping cart. In addition to offering debit and credit card options, consider adding options for payment providers like PayPal or Stripe. You could also add plugins that have a buy now, pay later functionality to encourage customers to press the "purchase" button.

24/7 Customer Service

A big part of a successful customer experience is providing helpful, accessible customer service. According to Microsoft, 90% of Americans consider customer service an important feature when deciding whether or not to purchase from a company. Include a 24/7 customer service chatbot as one of your ecommerce websites features to address customer needs at any time. Plugins like Zendesk or Live Person make it easy for you to add this feature to your website for a small fee.

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 Wishlist, and account history. You can also use an ecommerce platform automated emailing system to send targeted special offers to loyal customers.

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.

A Proportioning of Requirements

As stated by the customer, security is not a concern of this project. As such, it is beyond the scope of this system to encrypt personal user data, encrypt credit card information, prevent unauthorized login attempts, or any other concern of this nature. Additionally, the system is not responsible for the following:

Verifying that credit card information is valid

Verifying the email address provided by a user

Storing additional information about a product beyond simply the category and price • Allowing users to edit their account details (username, password, mailing

address, etc)

Allowing customers to order multiple copies of product in a single order

Providing individual product description

Allowing the Admin to update login credentials or other information about the Admin.

SPECIFIC REQUIREMENTS

FUNCTIONAL REQUIREMENTS

User Stories –

As a user I should be able to login, Logout and Register into the application.
As a user I should be able to see the products in different categories.
As a user I should be able to sort the products.
As a user I should be able to add the products into the shopping cart.
As a user I should be able to increase or decrease the quantity added in the cart.
As a user I should be able to add “n” number of products in the cart.
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.
As a user I should get different discount coupons.

Admin Stories –

As an Admin I should be able to login, Logout and Register into the application.
As an Admin I should be able to perform CRUD on Users.
As an Admin I should be able to Perform CRUD on the products.
As an Admin I should be able to get bulk upload option to upload a csv for products details
As an Admin I should be able to get the stocks.
As an Admin I should be able to mail if any stock is less than 10.
As an Admin I should be able to get the sales report of a specific duration.
As an Admin I should be able to set the discount coupons for the specific set of users

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	STS, Vs code, MySQL
Operating System	Windows 10/11 , Linux, MacOSX or later.

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 x86processor.
Ram	8 GB or above.
Hard disk	500 MB of free disk space ormore.

ARCHITECTURE

Angular Architecture:

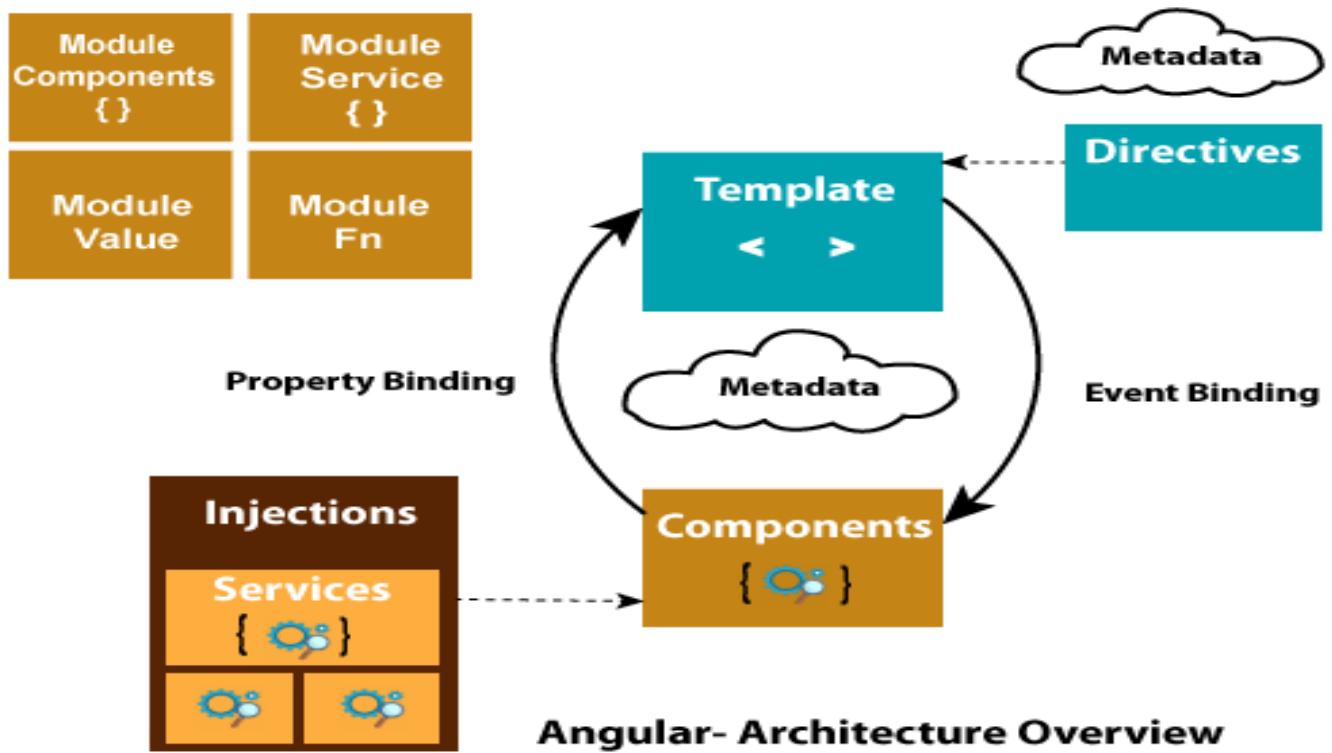


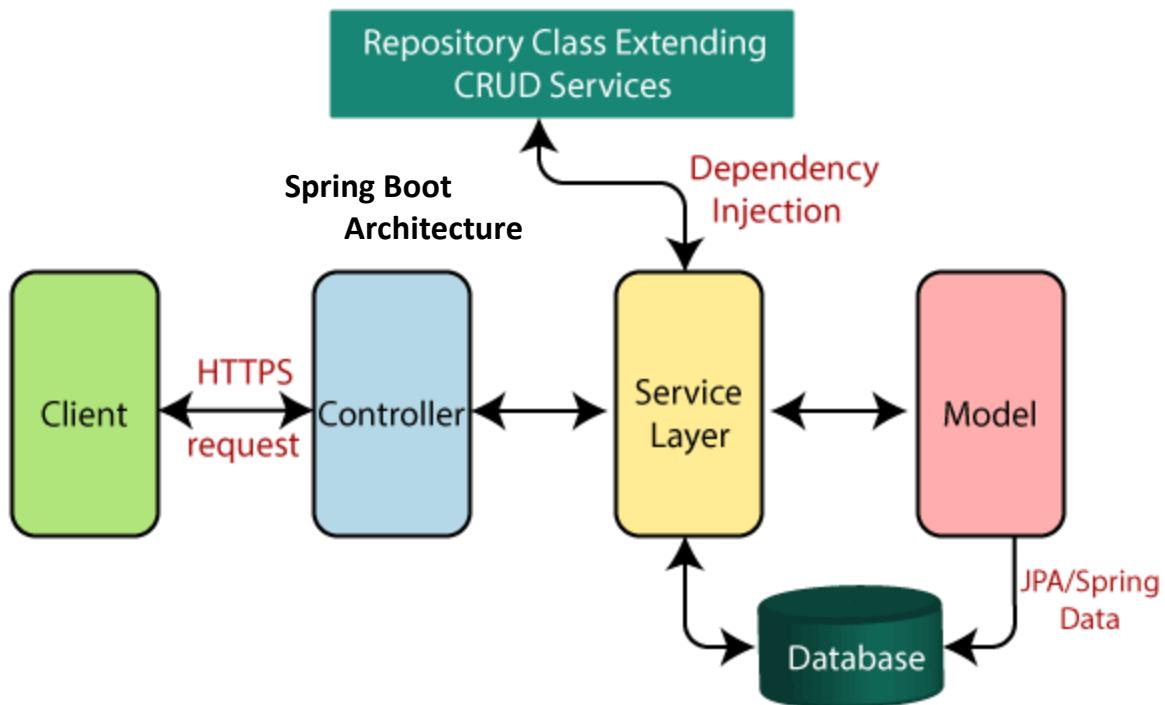
Fig. 3.1 Angular Architecture

There are main eight blocks of Angular.

- Module
- Component
- Metadata
- Template
- Data Binding
- Service
- Directive
- Dependency Injection

Spring Boot Architecture:

Spring Boot flow architecture



The spring boot consists of the following four layers:

- Presentation Layer – Authentication & Json Translation
- Business Layer – Business Logic, Validation & Authorization
- Persistence Layer – Storage Logic
- Database Layer – Actual Database

Micro Services Architecture

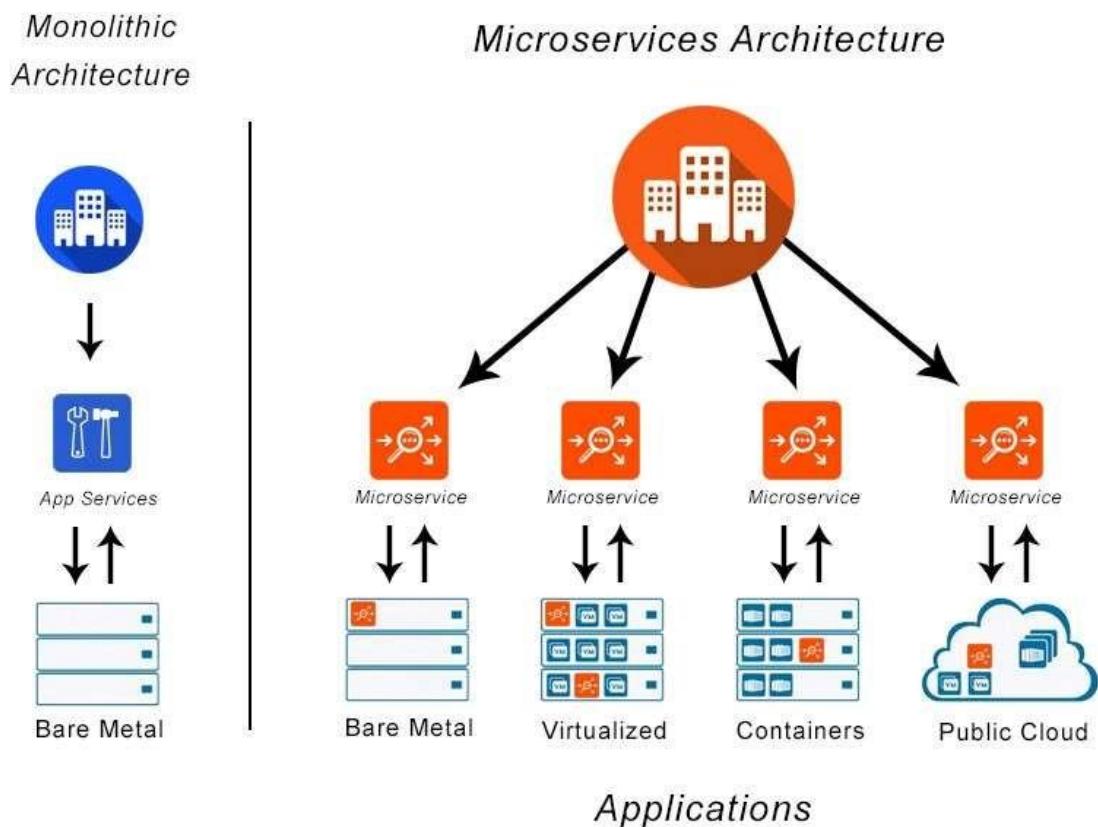


Fig 3.3 Microservices Architecture

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.

Project Architecture

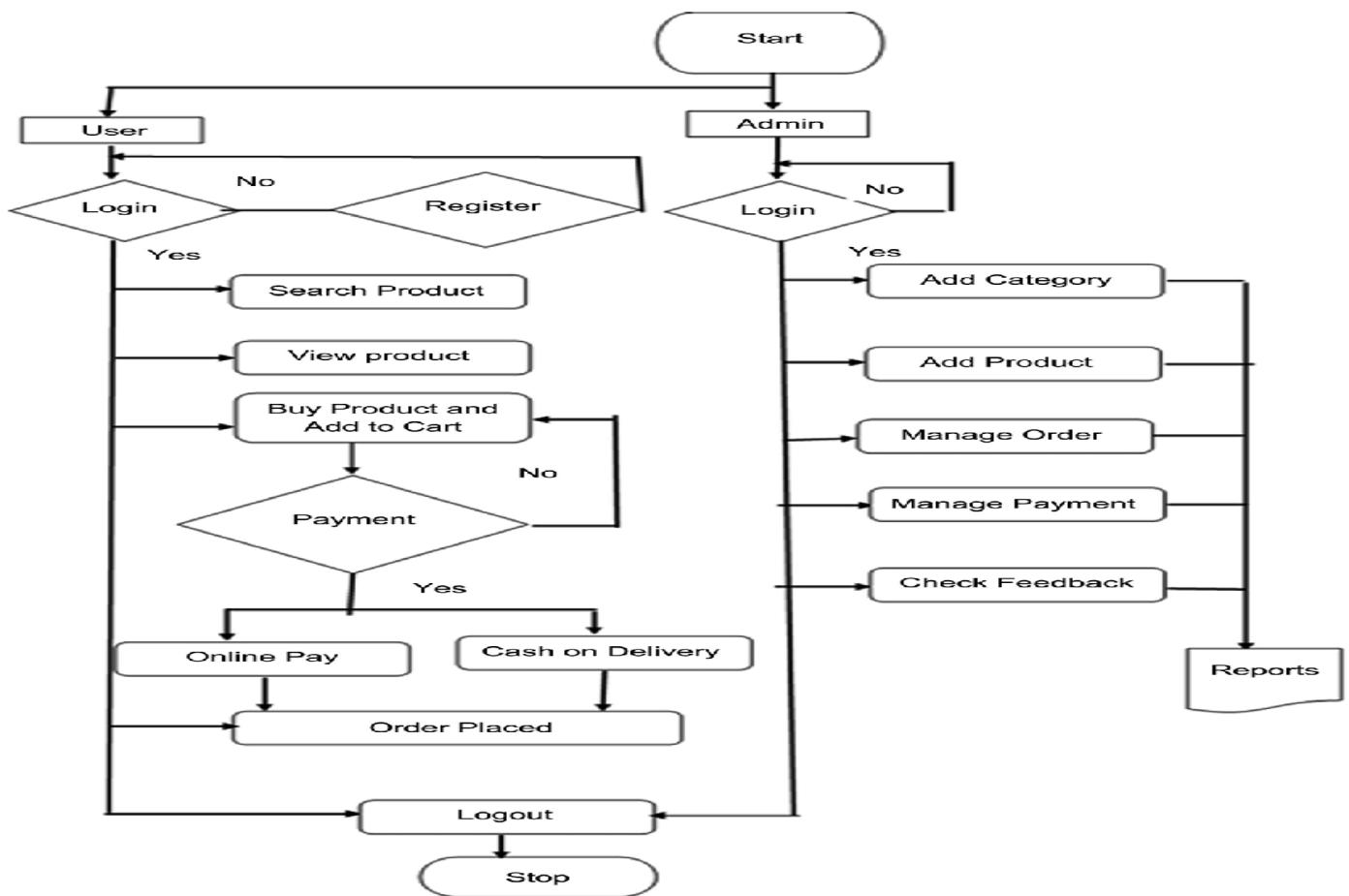


Fig 3.4 Project Architecture

API Gateway.

The API gateway is the entry point for clients. Instead of calling services directly, clients call the API gateway, which forwards the call to the appropriate services on the back end.

Advantages of using an API gateway include:

- It decouples clients from services. Services can be versioned or refactored without needing to update all of the clients.
- Services can use messaging protocols that are not web friendly, such as AMQP.
- The API Gateway can perform other cross-cutting functions such as authentication, logging, SSL termination, and load balancing.
- Out-of-the-box policies, like for throttling, caching, transformation, or validation.

Shop Microservice

Shop Microservice contains business logic and functionalities related to product view page, Cart, Checkout and User login Features. It connects to ecommerce DB (MySQL).

This service runs with port number 8080 in this application.

Discount Microservice

Discount Microservice contains business logic and functionalities for discount and coupon list Features. Admin can add and delete coupons from Discount UI from Admin module. It connects to ecommerce DB (MySQL). This service configured with application properties which runs the service in port number 8081 in this application.

Database Tables

- cart,
- category,
- customer,
- orderdetails,
- orders,
- payments
- ,product,
- Saleslog
- wishlist

NON-FUNCTIONAL REQUIREMENTS

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

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.

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.

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.

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.

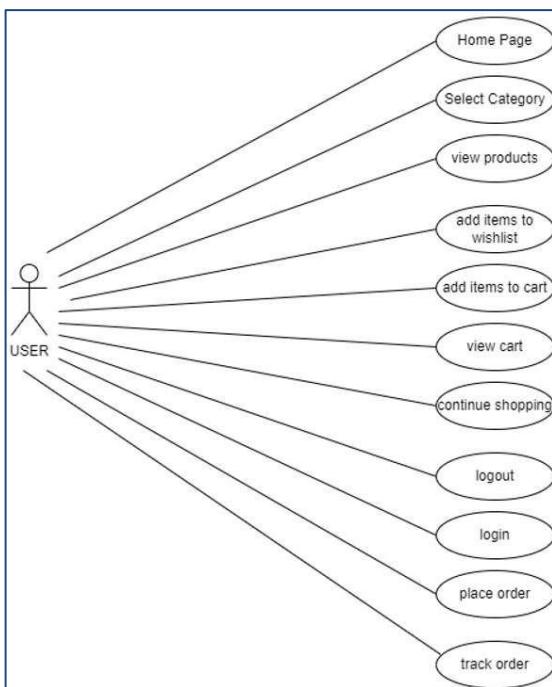
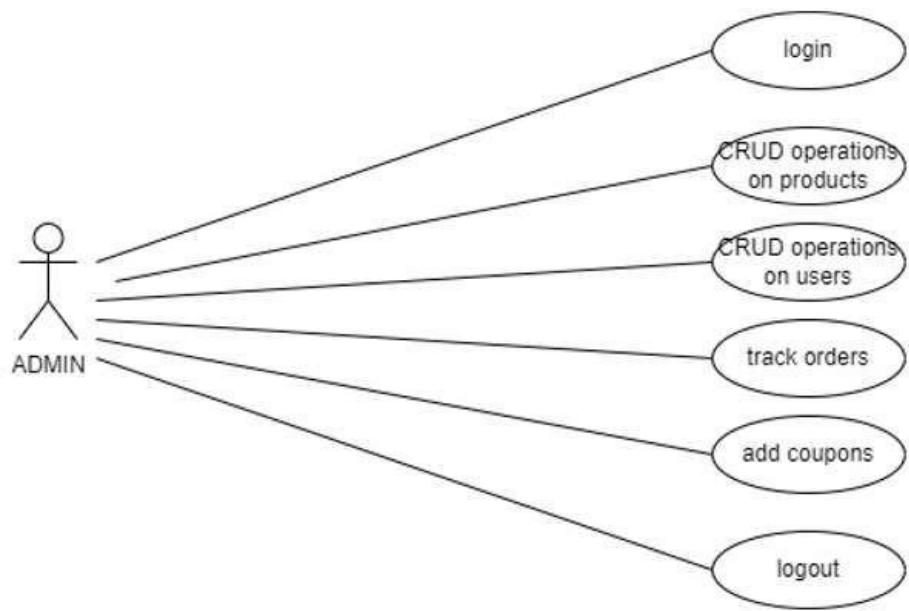


Fig. 4.1 Use Case Diagram



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.

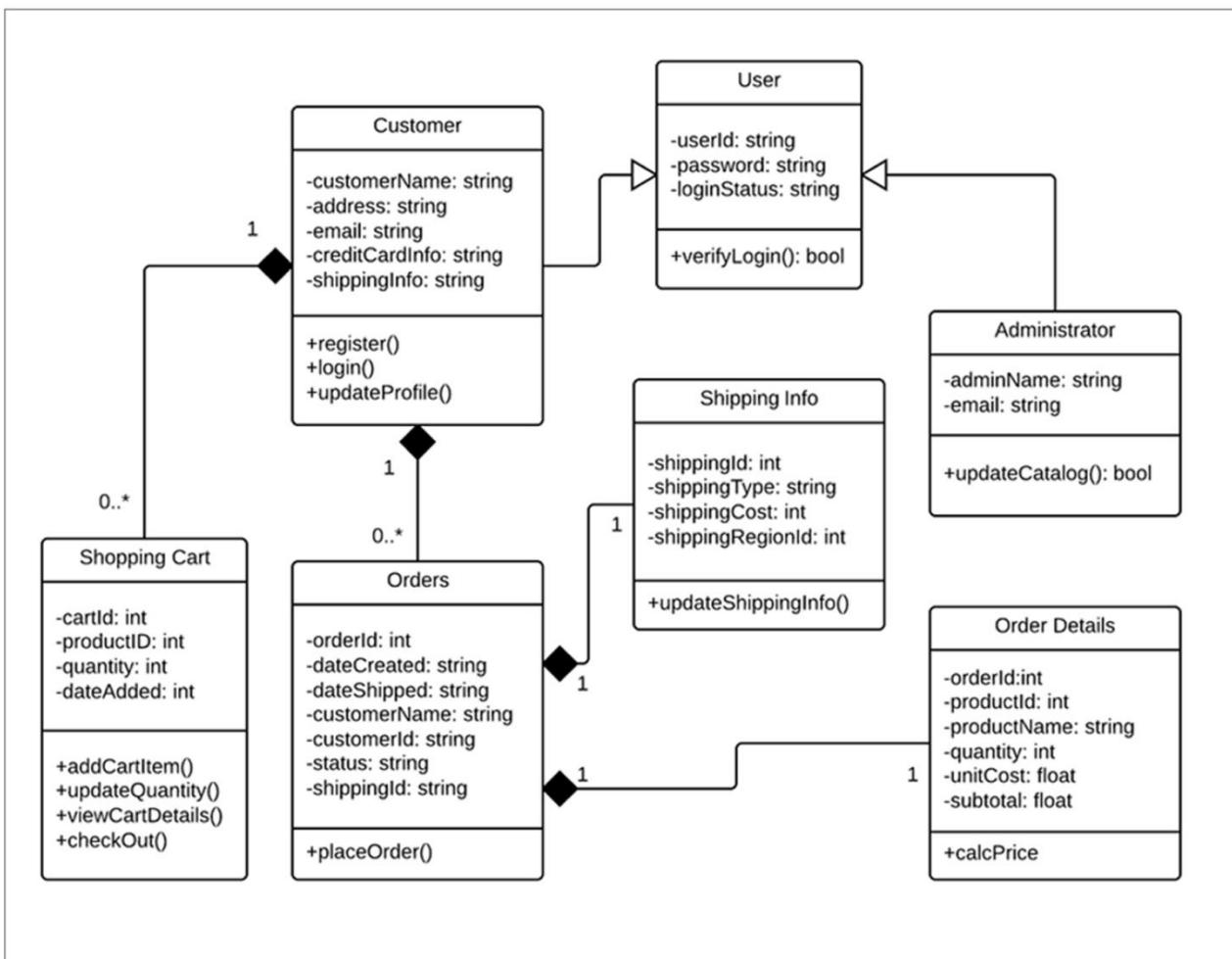


Fig. 4.2 Class Diagram

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.

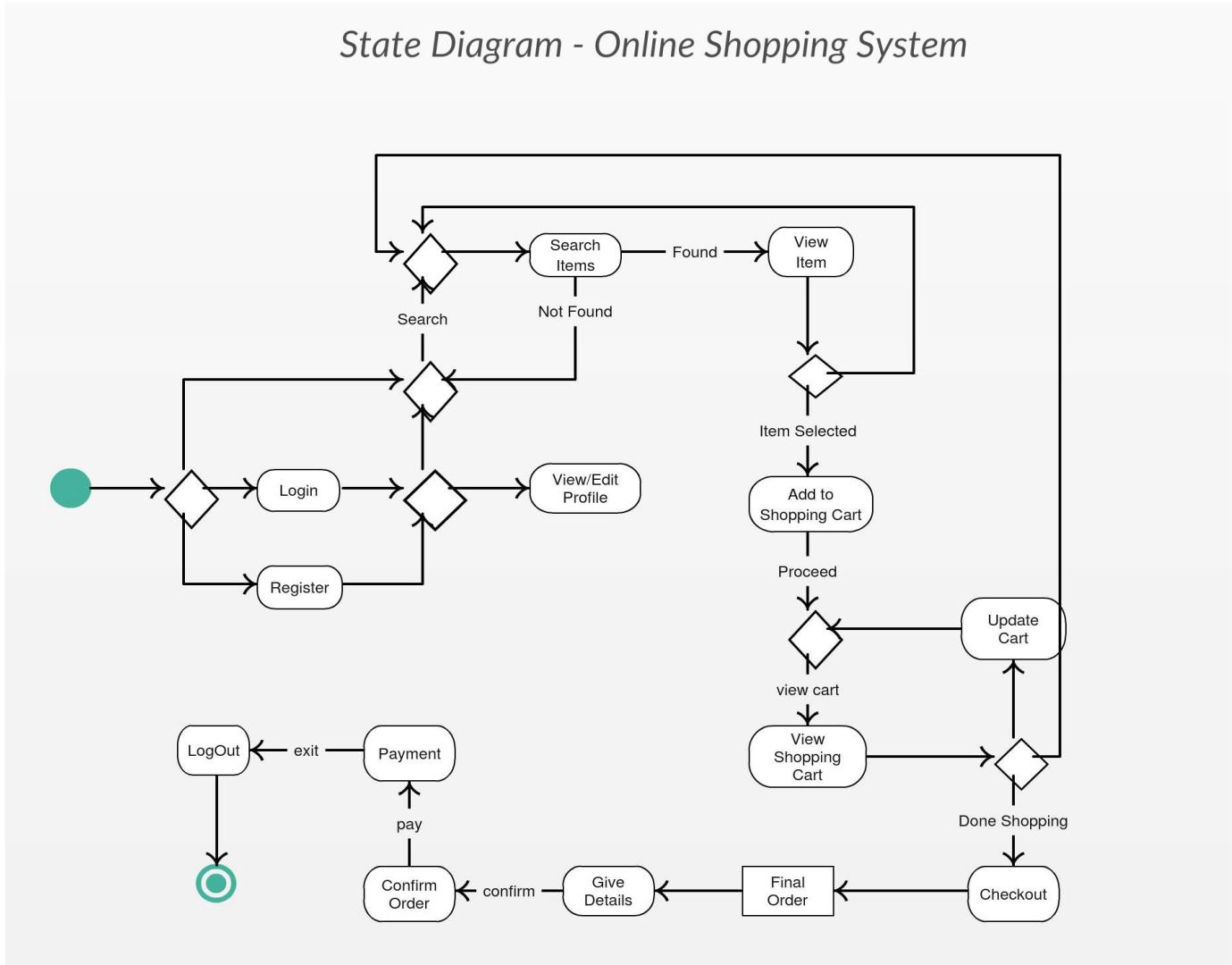


Fig. 4.3 State Chart Diagram

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.

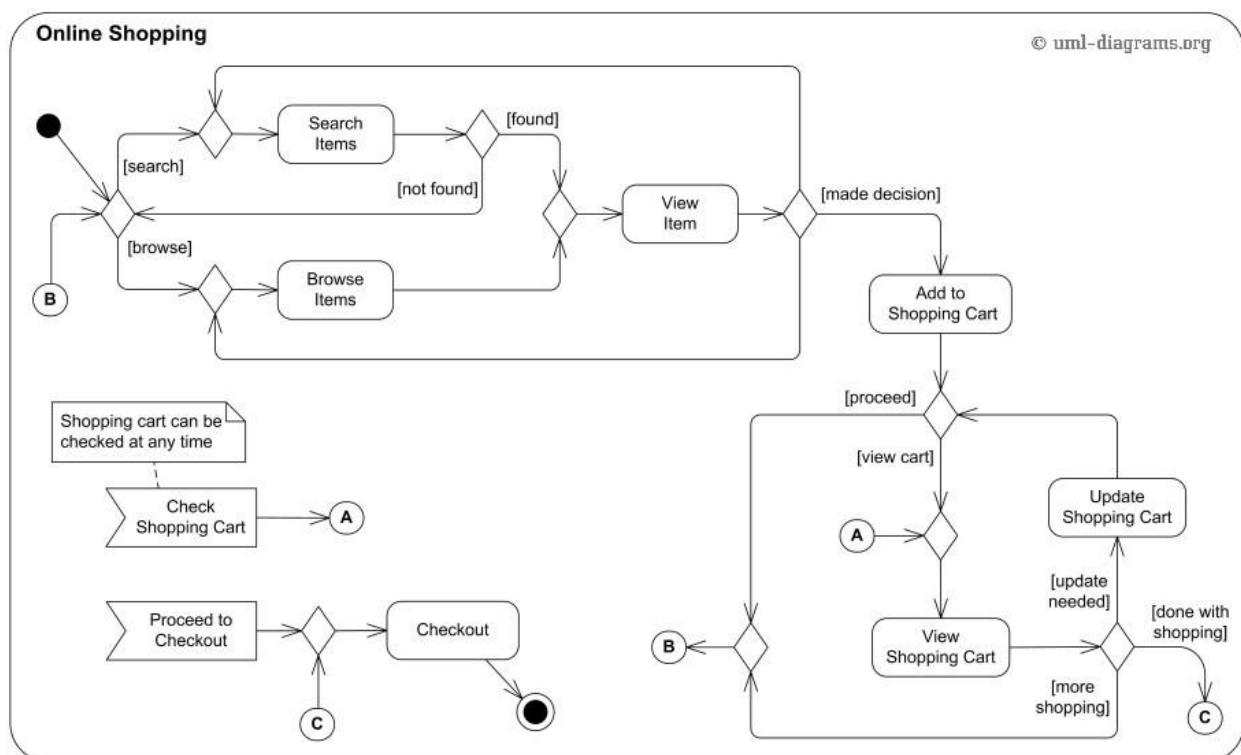
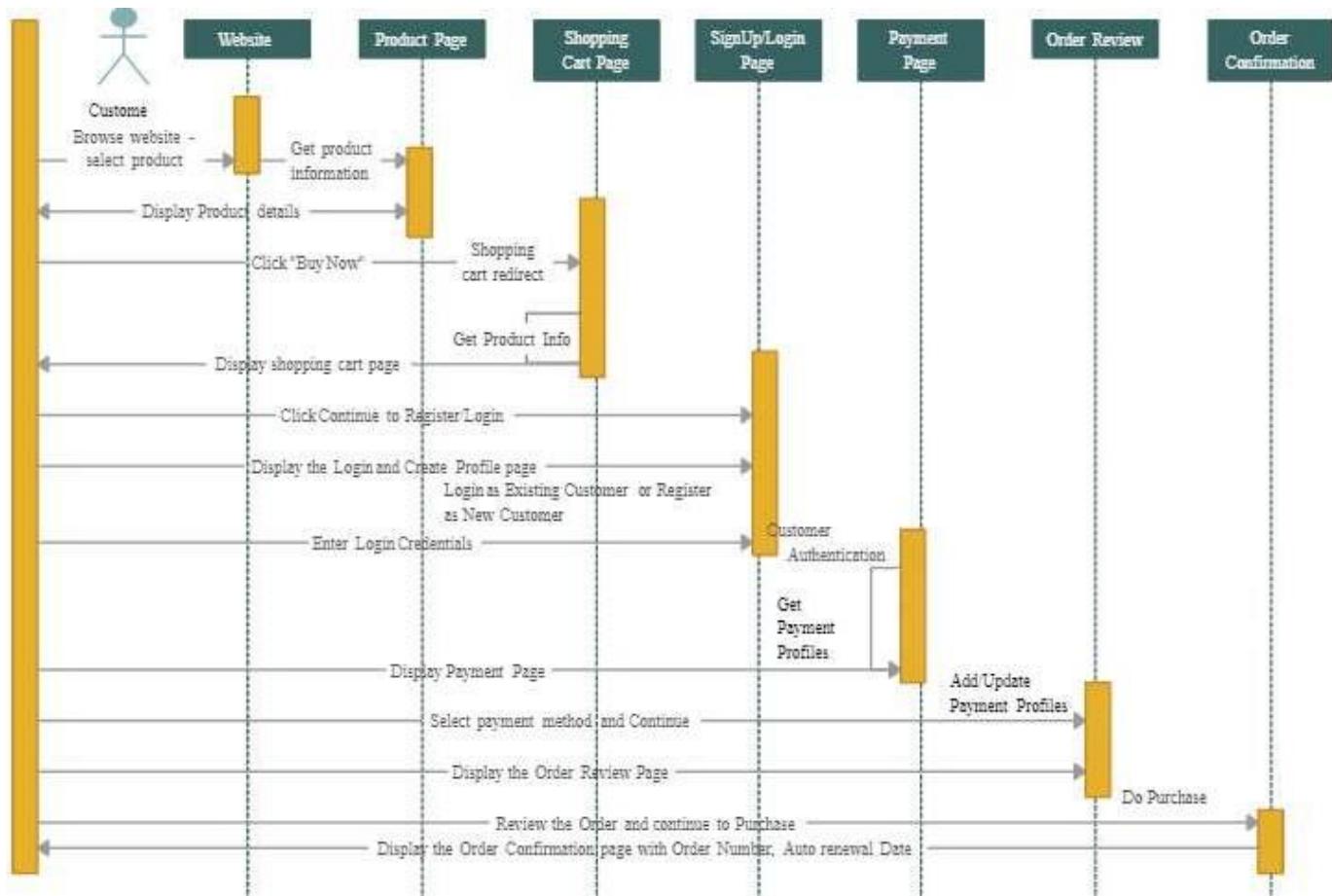


Fig. 4.4 Activity Diagram

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.

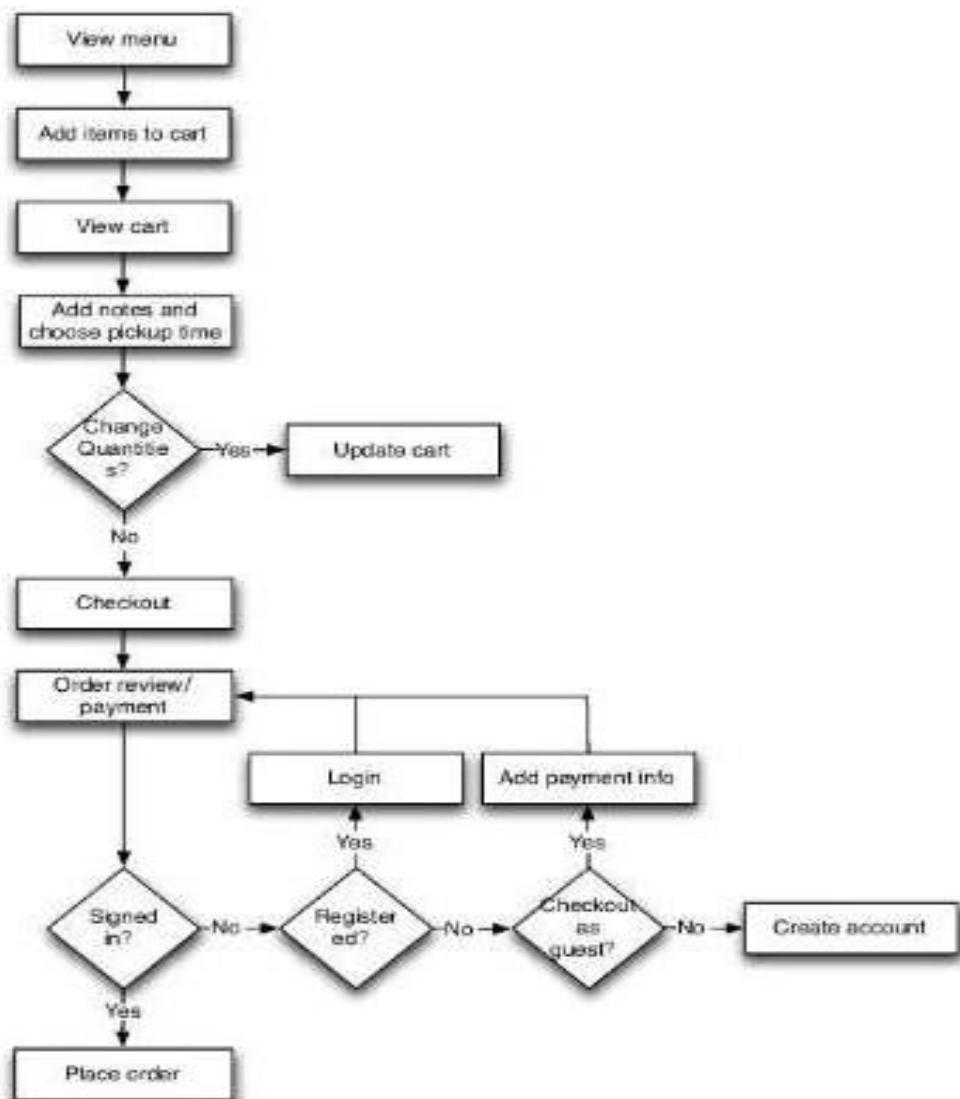


Different objects in the sequence diagram interact with each other by passing "messages".

Fig. 4.5 Sequence Diagram

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 Security
4. Hibernate
5. MySQL
6. Maven

Front-end

1. Angular
2. Bootstrap

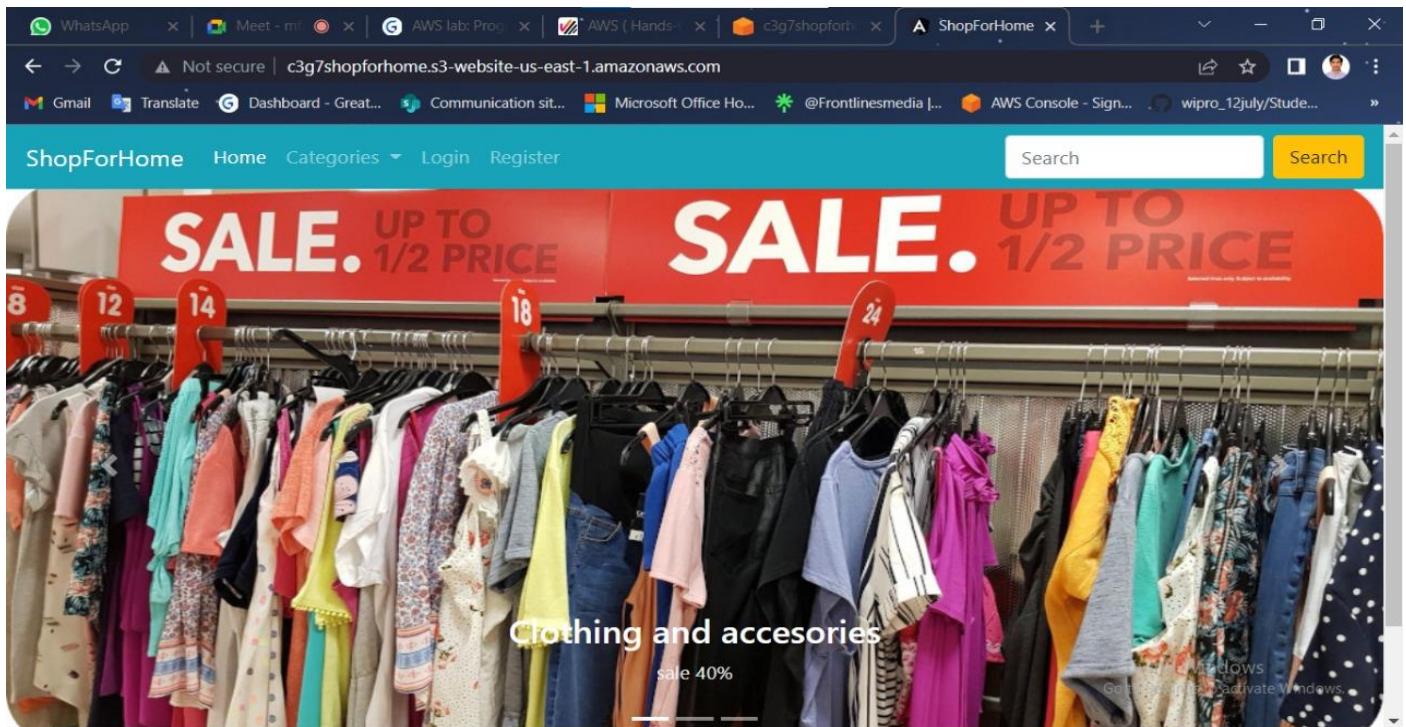
5.2 IMPLEMENTATION STEPS

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

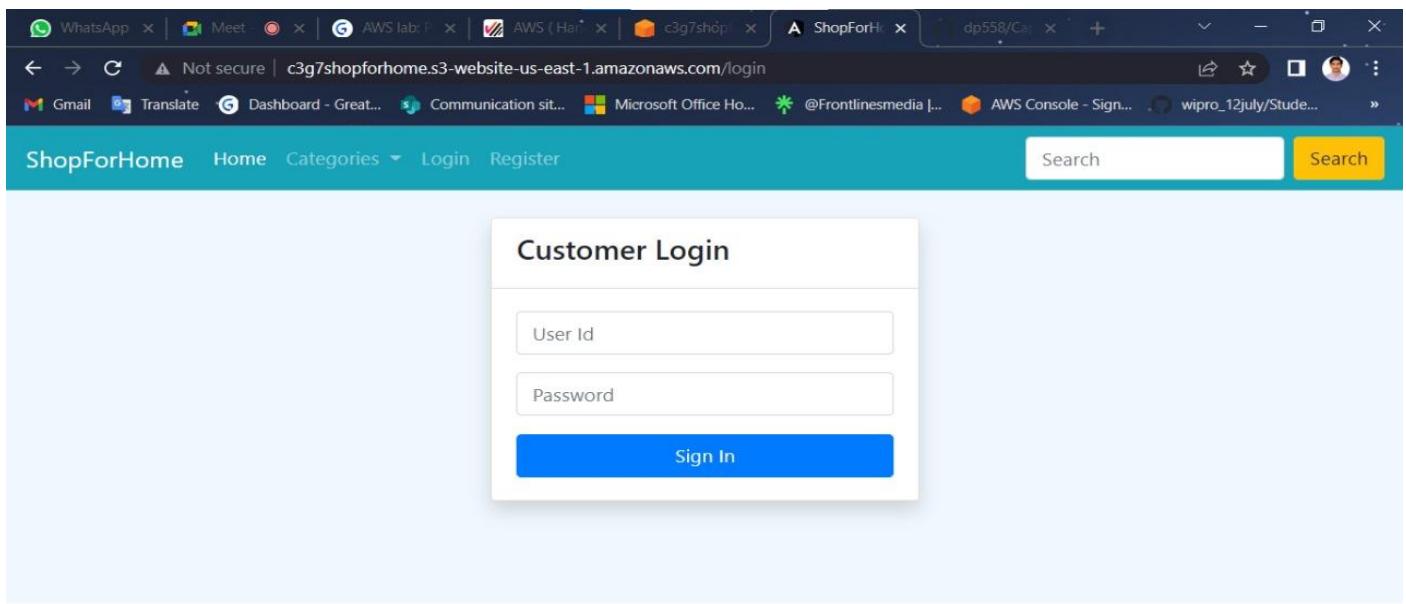
- First Install Java 8 jdk, Vs code, Spring Tool Suit, MySQL
- From your local FrontEnd code path -> open cmd Eg -> {local path}\frontend\Home e-commerce
- Run this command -- code .
- Run Npm install from vs code terminal
- Run npm start
- After the successful compiling you got this link in terminal localhost/4200.

- Open this link in google
- DataBase
- Install Mysql workbench
- Open that Mysql
- Open this query editor and You can run the query from sql file.
- Run the query.

6. Design and Implementation of the Site: HOME PAGE

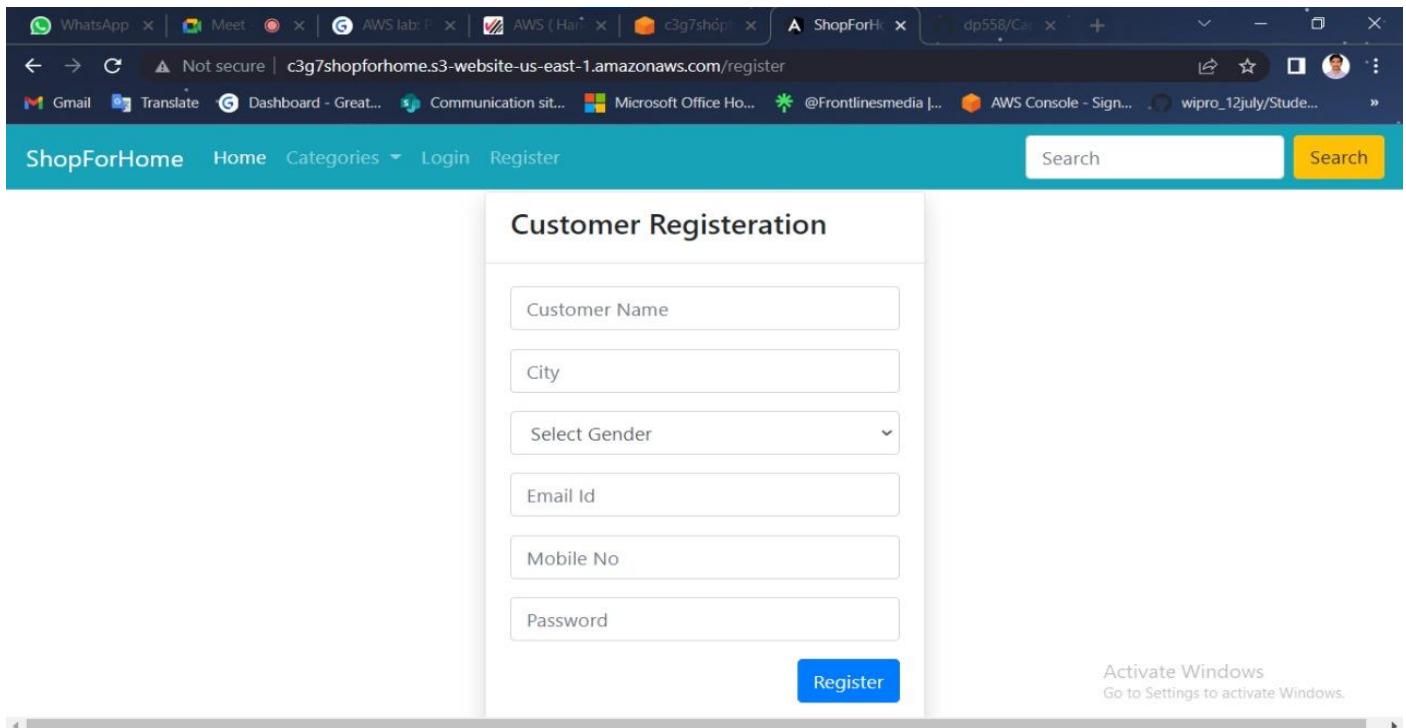


LOGIN PAGE



Activate Windows
Go to Settings to activate Windows.

REGISTER PAGE



The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled "ShopForHome" and displays a "Customer Registration" form. The form consists of several input fields: "Customer Name", "City", "Select Gender" (a dropdown menu), "Email Id", "Mobile No", and "Password". Below the form is a blue "Register" button. In the bottom right corner of the page, there is a message: "Activate Windows Go to Settings to activate Windows.".

Customer Registration

Customer Name

City

Select Gender

Email Id

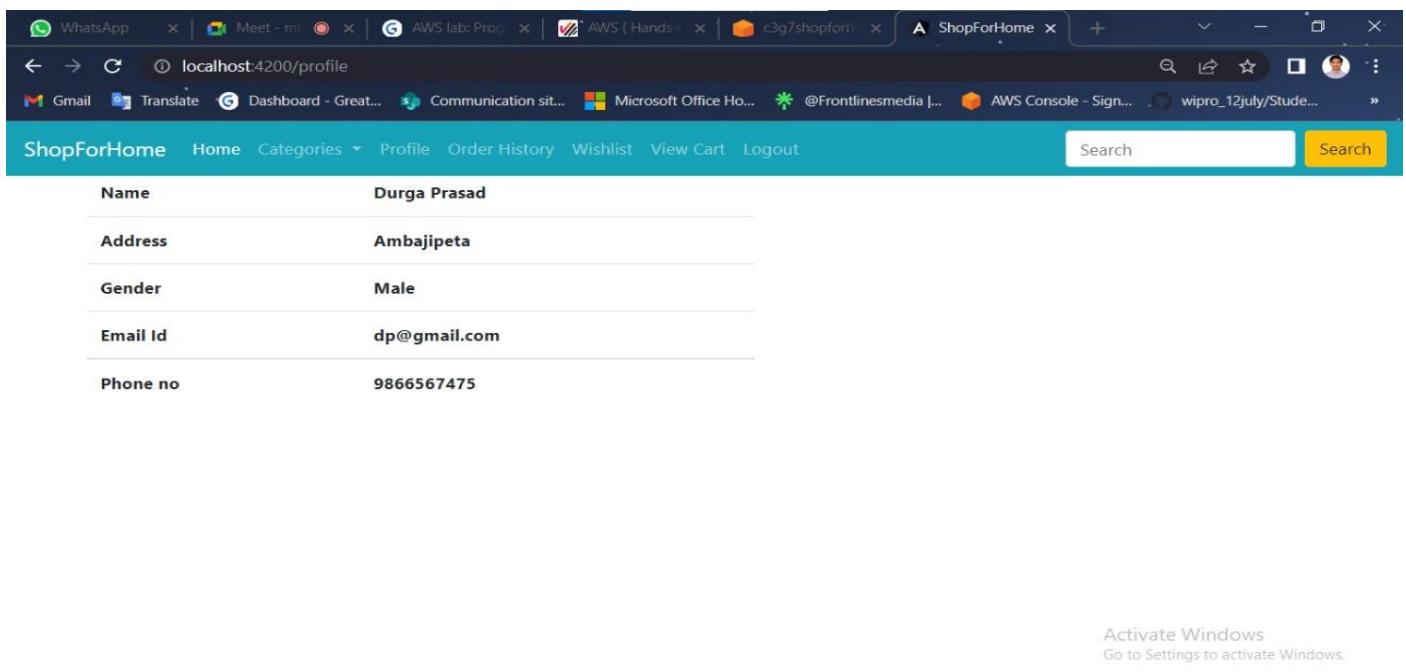
Mobile No

Password

Register

Activate Windows
Go to Settings to activate Windows.

USERS PROFILE



The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled "ShopForHome" and displays a user profile. The profile information is listed in a table format:

Name	Durga Prasad
Address	Ambajipeta
Gender	Male
Email Id	dp@gmail.com
Phone no	9866567475

In the bottom right corner of the page, there is a message: "Activate Windows Go to Settings to activate Windows.".

ShopForHome Home Categories Profile Order History Wishlist View Cart Logout

Name Durga Prasad

Address Ambajipeta

Gender Male

Email Id dp@gmail.com

Phone no 9866567475

Activate Windows
Go to Settings to activate Windows.

MY WISHLIST

localhost:4200/wishlist

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ShopForHome Home Categories Profile Order History Wishlist View Cart Logout Search Search

My Wishlist

Product	Category	Description	Price	Action
 libas	fashion	kurta	1800	<button>Remove</button>
 foosil	fashion	watch	25400	<button>Remove</button>

Activate Windows
Go to Settings to activate Windows.

CART PAGE

localhost:4200/viewcart

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ShopForHome Home Categories Profile Order History Wishlist View Cart Logout Search Search

My Cart

Product	Price	Qty	Amount	Action
 samsung (electronics)	10000	<button>-</button> 1 <button>+</button>	10000	<button>Remove</button>
 Butterfly (kitchen)	3099	<button>-</button> 1 <button>+</button>	3099	<button>Remove</button>
Total			13099	

Check Out

Card No

Name on Card

Expiry Date CVV

Amount

Place Order Activate Windows
Go to Settings to activate Windows.

ORDER HISTORY

The screenshot shows a browser window with multiple tabs open at the top. The active tab is 'localhost:4200/history' for 'ShopForHome'. The main content area displays 'My Order History' with a single row of data. The row contains the Order Id (1), Order Date (Aug 23, 2022), and a 'Details' section. The 'Details' section is a table with three columns: Product, Price, and Qty. It lists two items: a Samsung smartphone at 10000 and 1 unit, and a Butterfly laptop at 3099 and 1 unit.

Order Id	Order Date	Details									
1	Aug 23, 2022	<table border="1"><thead><tr><th>Product</th><th>Price</th><th>Qty</th></tr></thead><tbody><tr><td>samsung</td><td>10000</td><td>1</td></tr><tr><td>Butterfly</td><td>3099</td><td>1</td></tr></tbody></table>	Product	Price	Qty	samsung	10000	1	Butterfly	3099	1
Product	Price	Qty									
samsung	10000	1									
Butterfly	3099	1									

Activate Windows
Go to Settings to activate Windows.

ADMIN LOGIN

localhost:4200/admin

ShopForHome Home Categories Profile Order History Wishlist View Cart Logout

Search

Admin Login

Sign In

Activate Windows
Go to Settings to activate Windows.

ADMIN CATEGORY

localhost:4200/category

ShopForHome Home Dashboard Categories Products Orders Users Logout

Search

Categories

Category Id	Category Name	Action
1	electronics	<input type="button" value="Delete"/>
2	fashion	<input type="button" value="Delete"/>
3	grocery	<input type="button" value="Delete"/>
4	kitchen	<input type="button" value="Delete"/>

Save Category

Activate Windows
Go to Settings to activate Windows.

ADMIN PRODUCTS

localhost:4200/products

ShopForHome Home Dashboard Categories Products Orders Users Logout

Search Search

Products

Product	Category	Description	Stocks	Price	E-Mail	Action
	samsung	electronics mobilephone	10	10000		<button>Delete</button>
	mi	electronics smart Watch	5	1500	<button>E-MAIL</button>	<button>Delete</button>
	oneplus	electronics smart Tv	6	15000	<button>E-MAIL</button>	<button>Delete</button>
	LG	electronics refridgerator	8	12000	<button>E-MAIL</button>	<button>Delete</button>

Add Product

Product Name

Category

Select Category

Description

No. Of Stocks

Price

Activate Windows
Go to Settings to activate Windows.

Product Name

EMAIL FOR STOCKS

localhost:4200/emailus

Email For Stocks

Orders Form

Name

Email

Mobile Number

Subject

Message

Activate Windows
Go to Settings to activate Windows.

Submit Form

SALE REPORTS

WhatsApp | Meet - m... | Great Learning | AWS (Hands... | ShopForHome | ShopForHome | +

localhost:4200/orders

Gmail Translate Dashboard - Great... Communication sit... Microsoft Office Ho... @Frontlinesmedia J... AWS Console - Sign... wipro_12july/Stude...

ShopForHome Home Dashboard Categories Products Orders Users Logout Search Search

Orders

Order Id	Customer Name	Order Date	Details		
1	Durga Prasad	Aug 23, 2022	Product	Price	Qty
			 Samsung	10000	1
			 Butterfly	3099	1

Activate Windows
Go to Settings to activate Windows.

SEARCH OPTION

Capstone Project Problem | Meet - mfi-gsfu-iwi | WhatsApp | ShopForHome | +

localhost:4200

Gmail Translate Dashboard - Great... Communication sit... Microsoft Office Ho... @Frontlinesmedia J... AWS Console - Sign... wipro_12july/Stude...

ShopForHome Home Categories Login Register electronics Search



Activate Windows
Go to Settings to activate Windows.

BULK UPLOAD OPTION

(upload products and download reports)

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost:4200/products' under the heading 'ShopForHome'. The page displays a table of products with columns: Product Image, Brand, Category, Product Name, Stock, Price, E-MAIL, and Delete. The products listed are:

Product Image	Brand	Category	Product Name	Stock	Price	E-MAIL	Delete
	LG	electronics	refridgerator	8	12000	E-MAIL	Delete
	usha	electronics	fan	12	1200	E-MAIL	Delete
	Blue Star	electronics	ac	15	22000	E-MAIL	Delete
	Bajaj	electronics	cooler	9	9000	E-MAIL	Delete
	sisca	electronics	smart Light	13	600	E-MAIL	Delete
	Hp	electronics	Laptop	14	50000	E-MAIL	Delete

On the right side of the table, there are two sections for bulk upload:

- Price:** A text input field.
- Product Name:** A file input field labeled "Choose File" with "No file chosen".
- Save Product:** A blue button.

OR

- Upload CSV File Here:** A file input field labeled "Choose File" with "No file chosen".
- Save Product:** A blue button.

Activate Windows
Go to Settings to activate Windows.

INSTALLATION STEPS:

Required Software:

1. Spring Tool Suite
2. Visual Studio Code
3. MySQL

Create database in MySQL Workbench:

1. Open MySQL Workbench.
2. Click on Open SQL Script.

MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Open SQL Script... Ctrl+Shift+O

Open Recent

Run SQL Script...

Close Connection Tab Ctrl+Shift+F4

Close Tab Ctrl+V

Save Script Ctrl+S

Save Script As... Ctrl+Shift+S

Revert to Saved

Exit Alt+F4

Views

Stored Procedures

Functions

sys

testtb

Administration Schemas

Information

Table: product_in_order

Columns:

id	bigrnt
category_type	int
count	int
product_description	varchar
product_icon	varchar
product_id	varchar
product_name	varchar
product_price	decimal
product_stock	int
cart_user_id	bigrnt
order_id	bigrnt

Result Grid

Filter Rows:

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
135	12:52:36	INSERT INTO product_info (product_id, product_name, product_description, product_icon, product_status, pr...	1 row(s) affected	0.047 sec
136	12:52:36	INSERT INTO product_info (product_id, product_name, product_description, product_icon, product_status, pr...	1 row(s) affected	0.031 sec
137	12:52:37	INSERT INTO product_info (product_id, product_name, product_description, product_icon, product_status, pr...	1 row(s) affected	0.031 sec
138	12:52:37	INSERT INTO 'ShopForHome'.users VALUES (214743645, true, 'Plot 2, Shivali Nagar, Bengaluru', 'admin@...', ...)	1 row(s) affected	0.047 sec
139	13:35:28	SELECT * FROM testtb.customer LIMIT 0, 1000	3 row(s) returned	0.172 sec / 0.000 sec
140	13:36:02	SELECT * FROM shopforhome.product_in_order LIMIT 0, 1000	9 row(s) returned	0.062 sec / 0.000 sec

Type here to search

34°C 23-08-2022 13:37

3. Select ShopForHome SQL File in project folder.

4. Click on Execute to run SQL File.

MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

officedb

shopforhome

Tables

address

admin

cart

category

customer

orderdetails

orders

payments

product

saleslog

wishlist

Views

Stored Procedures

Functions

sys

world

Administration Schemas

No object selected

productdata.sql

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:27:10	DROP DATABASE 'shopforhomedb'	7 row(s) affected	14.860 sec

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

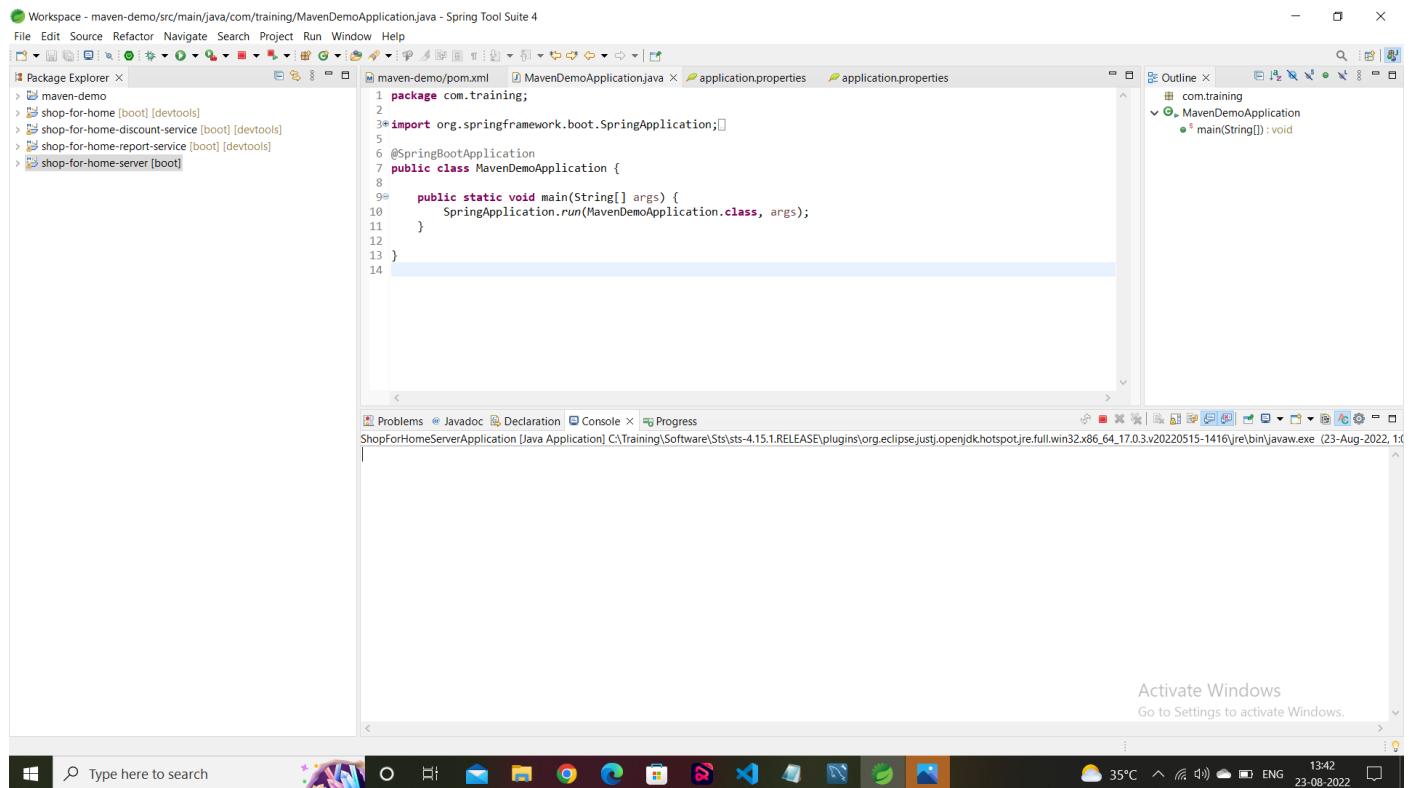
Type here to search

Activate Windows Go to Settings to activate Windows.

5. Now Database is successfully created.

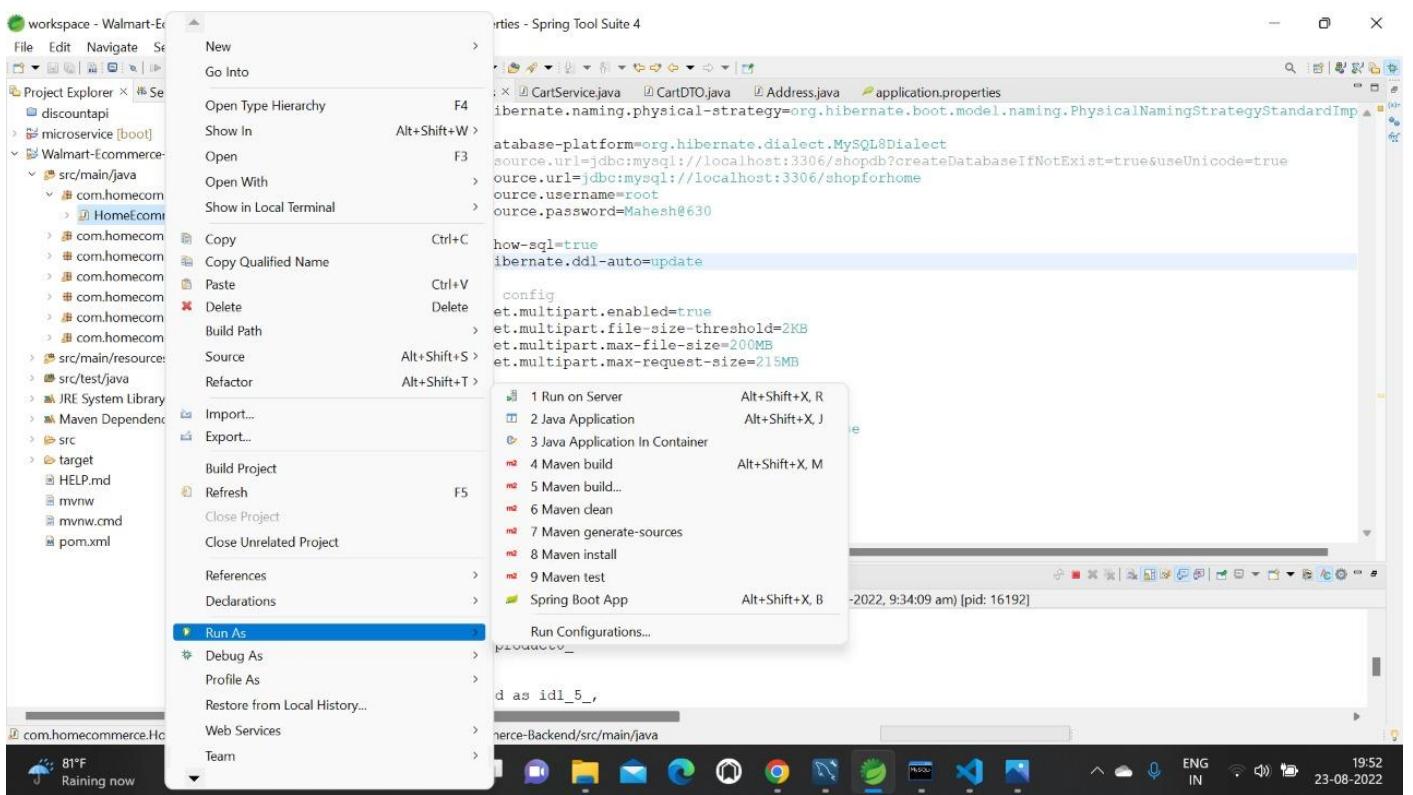
Import Backend project in Spring Tool Suite:

1. Open Spring Tool Suite.
2. Import all four project in workspace from backend folder.

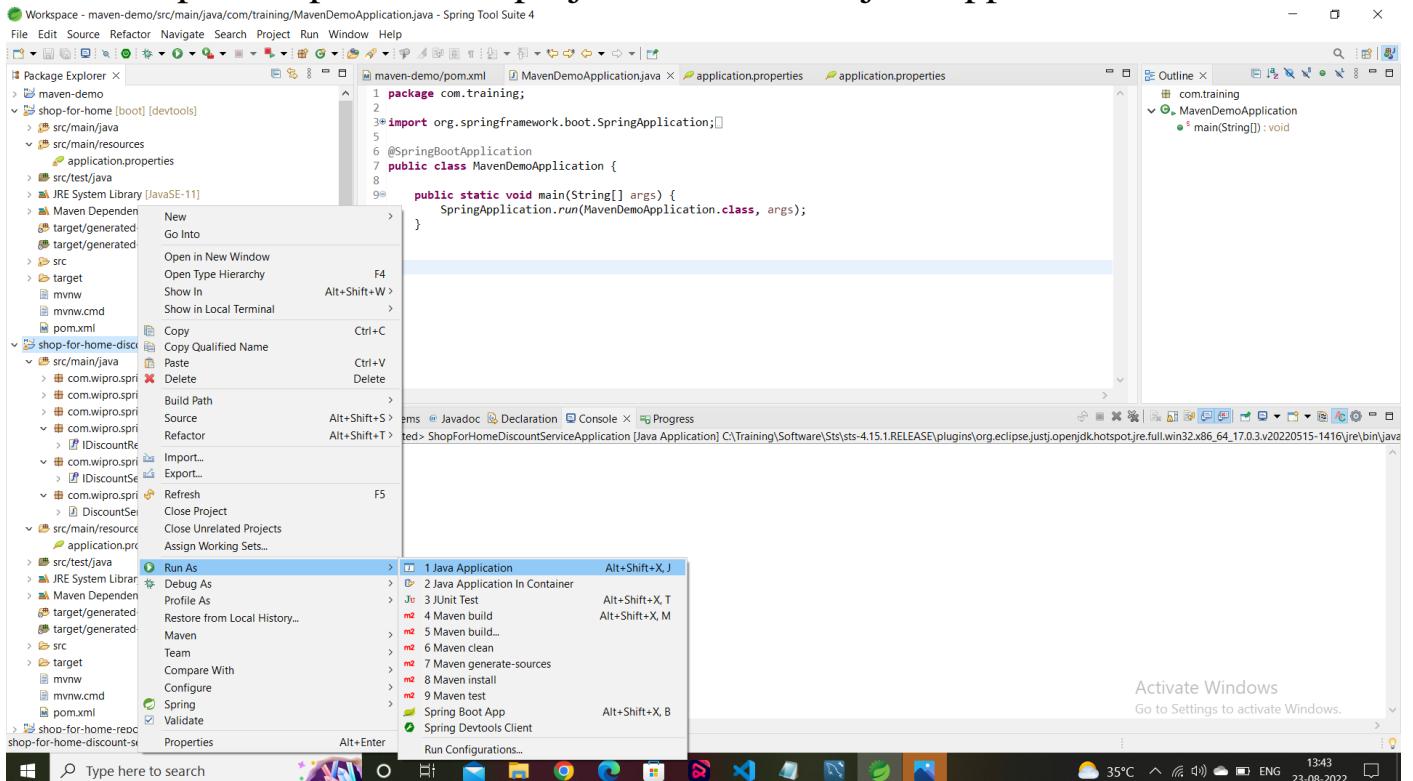


Note: - In Project MySQL username and password is root. Please change it according to your system in application.properties file.

4. First Open Walmert-Ecommers project and run it as java application.

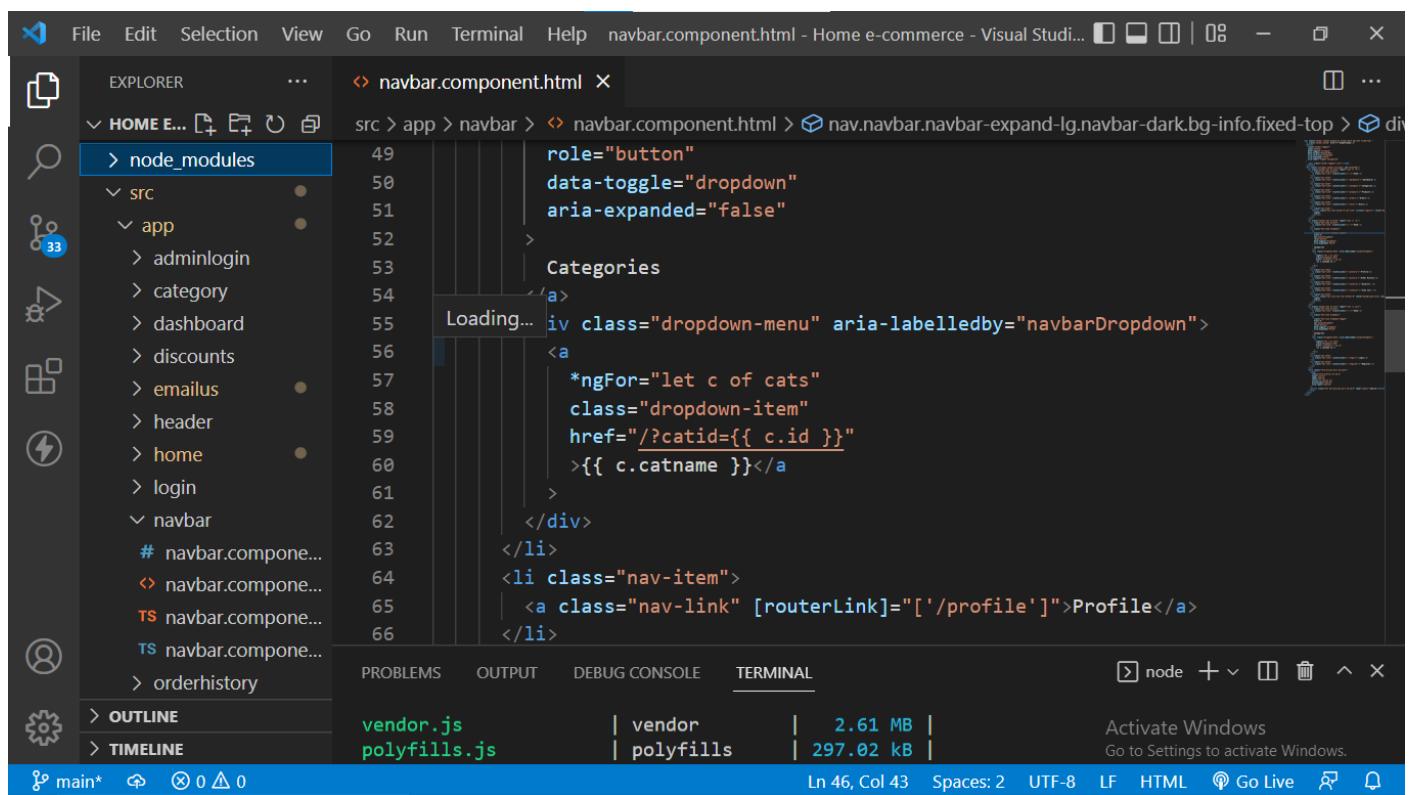


5. Then Open shop-for-home project and run it as java application.



Open Frontend Project in Visual Studio Code:

1. Open Visual Studio Code.
2. Click On Open Folder.
3. Select shop-for-home in frontend folder.
4. Open new terminal and type ng serve to run the project.



The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help, navbar.component.html - Home e-commerce - Visual Studio...
- Explorer:** Shows the project structure with node_modules selected.
- Editor:** Displays the content of navbar.component.html, which includes a dropdown menu for categories.
- Bottom Bar:** PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, node, +, and other icons.
- Status Bar:** vendor.js, vendor, 2.61 MB | polyfills.js, polyfills, 297.02 kB | Activate Windows, Go to Settings to activate Windows.

```
49      > role="button"
50      > data-toggle="dropdown"
51      > aria-expanded="false"
52      >
53      > Categories
54      </a>
55      Loading... <div class="dropdown-menu" aria-labelledby="navbarDropdown">
56      <a
57      *ngFor="let c of cats"
58      class="dropdown-item"
59      href="/?catid={{ c.id }}"
60      >{{ c.catname }}</a>
61      >
62      </div>
63      </li>
64      <li class="nav-item">
65      <a class="nav-link" [routerLink]="/profile">Profile</a>
66      </li>
```

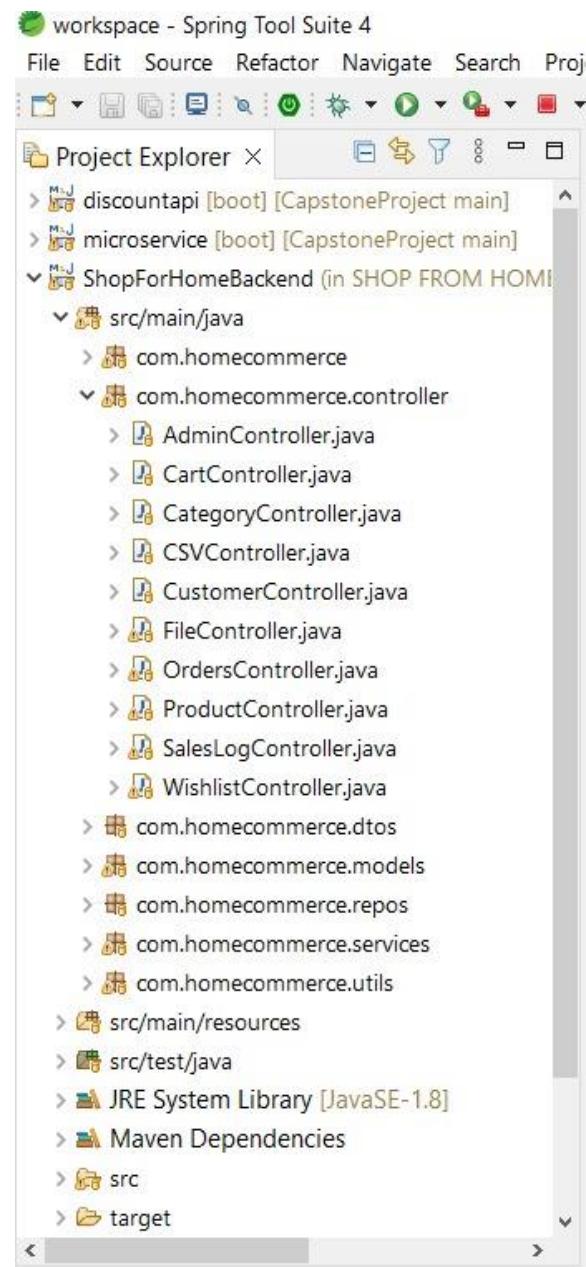
Now Open the Chrome browser and go to <http://localhost:4200>.

Note: - shop-for-home service is running on port 8081
shop-for-home-discount service is running on port 8082
So please make these port free to run the application.

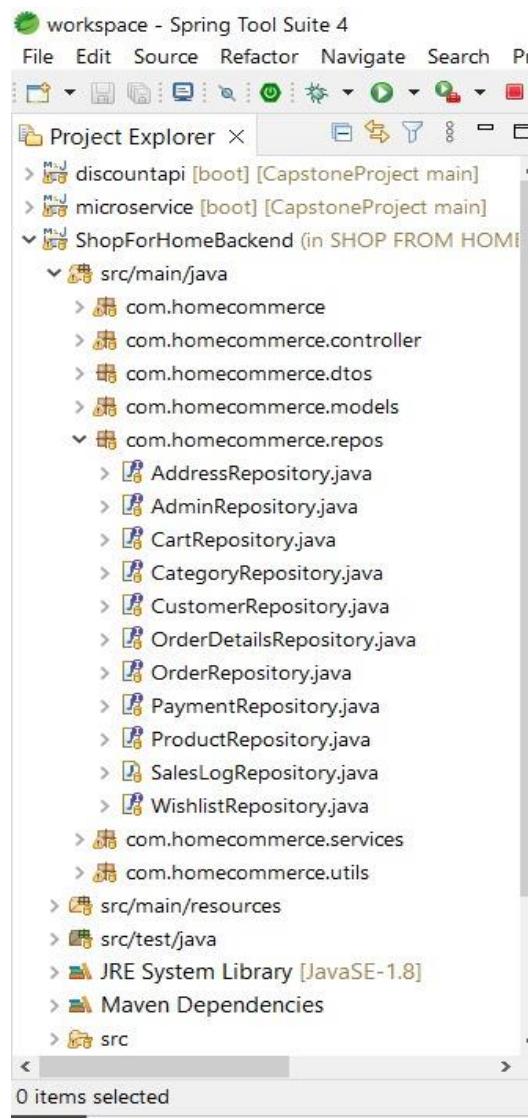
Note: - Email Address and Password for Admin Id- admin Password- Admin

BACKEND STRUCTURE

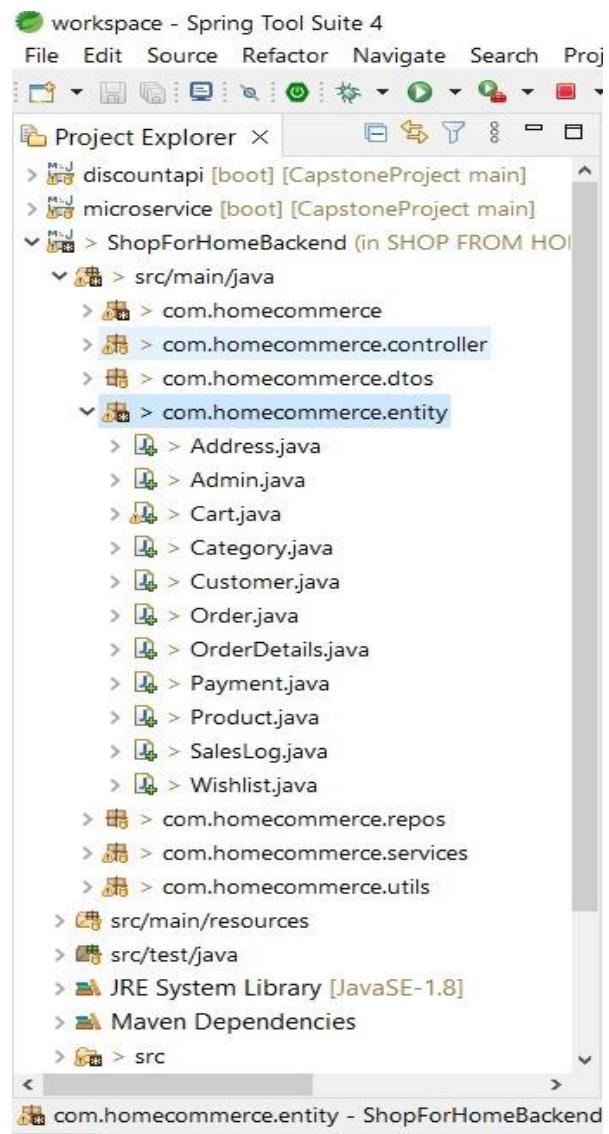
CONTROLLER PAGE



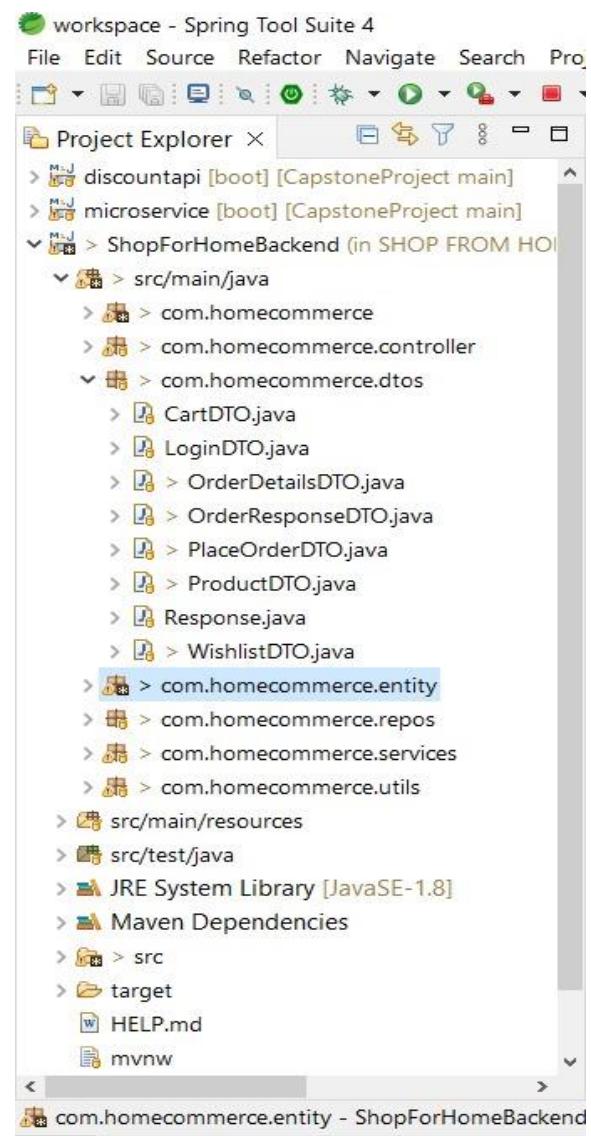
REPOSITORY PAGE



ENTITY PAGE



DTOS PAGE



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

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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.