

# Capstone Project

## Shop For Home

TEAM:

THARUN KUMAR CHINCHILI

SAURAV KUMAR

AVULA VENKATA MALLIKARJUNA GAGANDEEP REDDY

VEDAPRIYA M N

SRINIVAS MUNDLAMURI

# INTRODUCTION

- ShopForHome 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: -
  - User
  - Admin
- Online shopping or shopping is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the internet using a web browser.
- It is a B2C process i.e. business to computer ecommerce.
- As of 2016 ,customers can shop online using a range of different computers and devices ,including desktop computers, laptops, tablet computers and smartphones.
- Online customers must have access to the internet and a valid method of payment in order to complete a transaction.
- Online stores are usually available 24 hours a day and many consumers in Western countries have Internet access both at work and at home.

# Objectives

- ▶ Provide visitors a personalized experience.
- ▶ Make your website responsive
- ▶ Improve Customer Loyalty
- ▶ Refine Service Efficiency
- ▶ Establish Deeper Business Relationships

# Online shopping Vs. Traditional Shopping

## Online Shopper

- I want to buy a dress let's checkout online.
- Easy to find best online stores.
- Searching online styles.
- I got a best coupon to shop.
- Wow, Good discount
- Hooray! Got it.

## Traditional Shopper

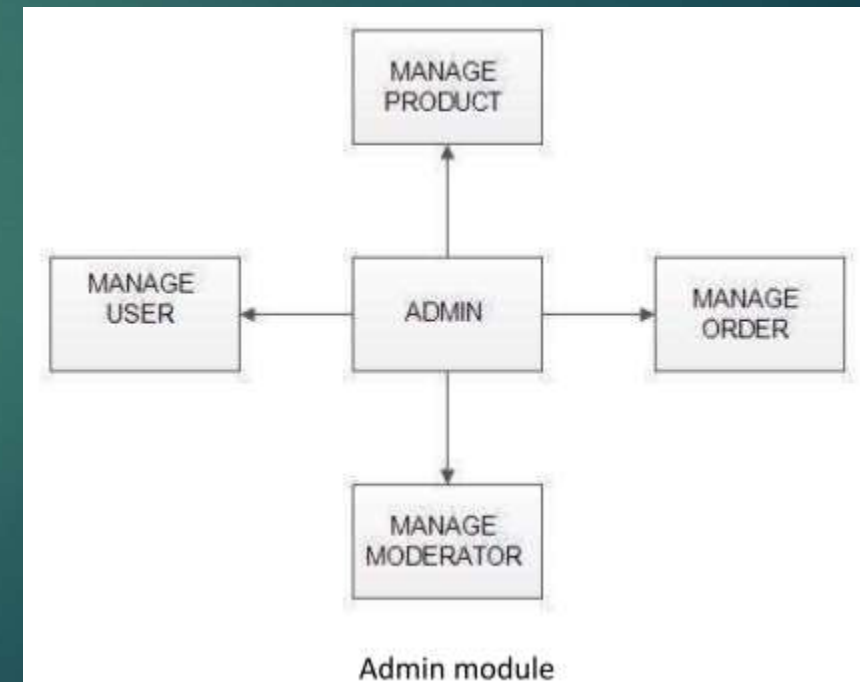
- 1.I want to buy handbag lets go out find best store
- 2.Time to find out best store.
- 3.Oh,I got stucked in traffic
- 4.I found a shop at least
- 5.Salesman says no discount.
- 6.No Home delivery..

# Admin Portal:

The administrator is the super user of this application. Only the admin has access to this admin page. Admin may be the owner of the shop. The administrator has all the information about all the users and about all products. The admin user should be able to: Add or remove different products to or from the application to build a rich product line Edit product item details like name, price, discount, and offers to keep it aligned to the current prices Enable or disable the product items

This module is divided into different sub-modules.

1. Manage Moderators
2. Manage Products
3. Manage Users
4. Manage Orders

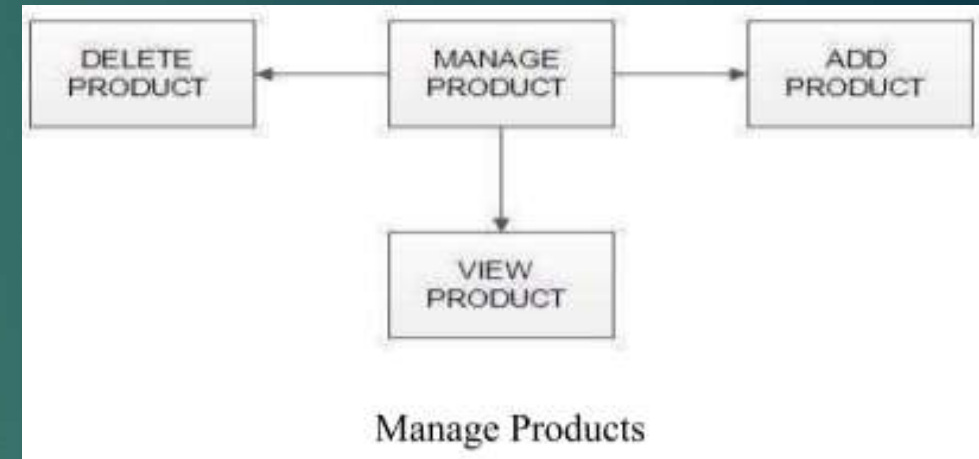


# Manage Moderators :

- ▶ Add Moderator: Only the admin is having the privilege to add a moderator. A moderator can be considered as a staff who manages the orders or owner of a group of products.
- ▶ Remove Moderator: Admin has the privilege to delete a moderator who was added.
- ▶ Search moderator: All existing moderators can be viewed by the administrator as a list. If there are a number of moderators and the admin needs to find one of them, the admin can search for a moderator by name.

# Manage Products

- ▶ Add Products: The shopping cart project contains different kinds of products. The products can be classified into different categories by name. Admin can add new products into the existing system with all its details including an image.
- ▶ Delete Products: Administrators can delete the products based on the stock of that particular product.
- ▶ Search products: Admin will have a list view of all the existing products. He can also search for a particular product by name.



# Manage Users

- ▶ View Users: The admin will have a list view of all the users registered in the system. Admin can view all the details of each user in the list except the password.
- ▶ • Add Users: Admin has privileges to add a user directly by providing the details.

# Manage Orders

- ▶ View Order: Administrators can view the Orders which are generated by the users. He can verify the details of the purchase.
- ▶ Delete Order: Admin can delete orders from the orders list when the product is taken for delivery.



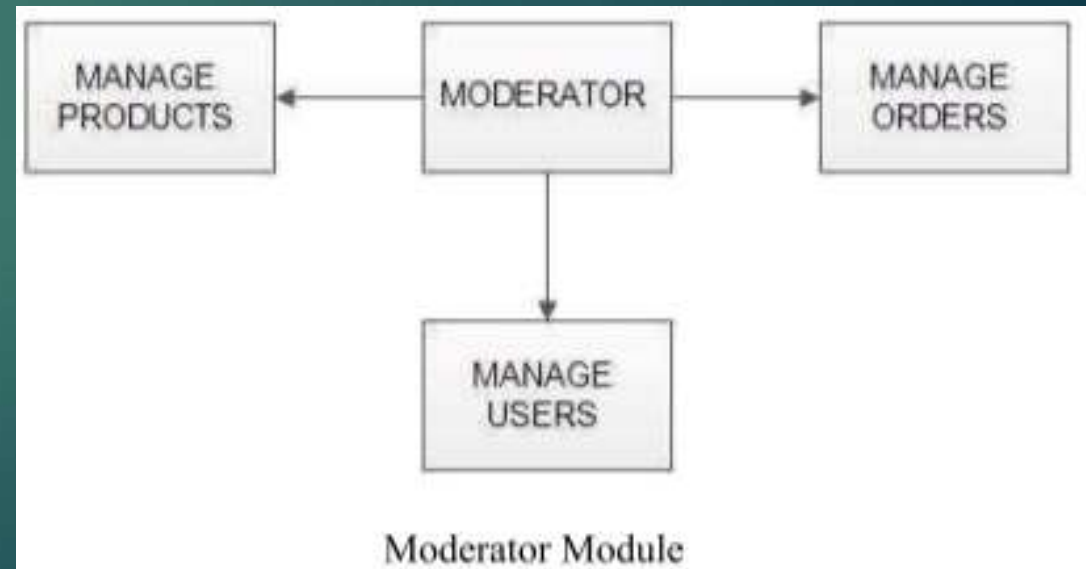


# Moderators:

A moderator is considered a staff who can manage orders for the time being. As a future update moderator may give the facility to add and manage his own products. Moderators can reduce the workload of admin. Now moderator has all the privileges an admin has except managing other moderators. He can add products and users.

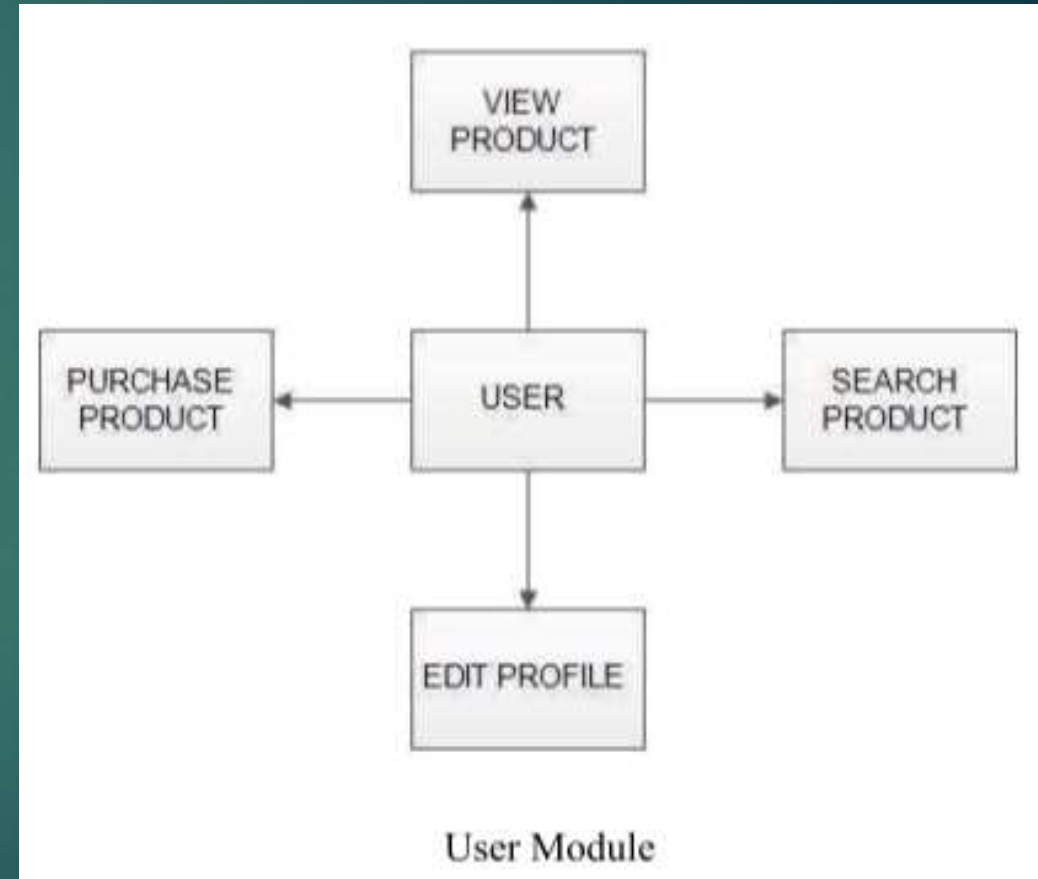
He can also check the orders and edit his profile.

- ▶ Manage products
- ▶ Manage users
- ▶ Manage orders



# Users Portal

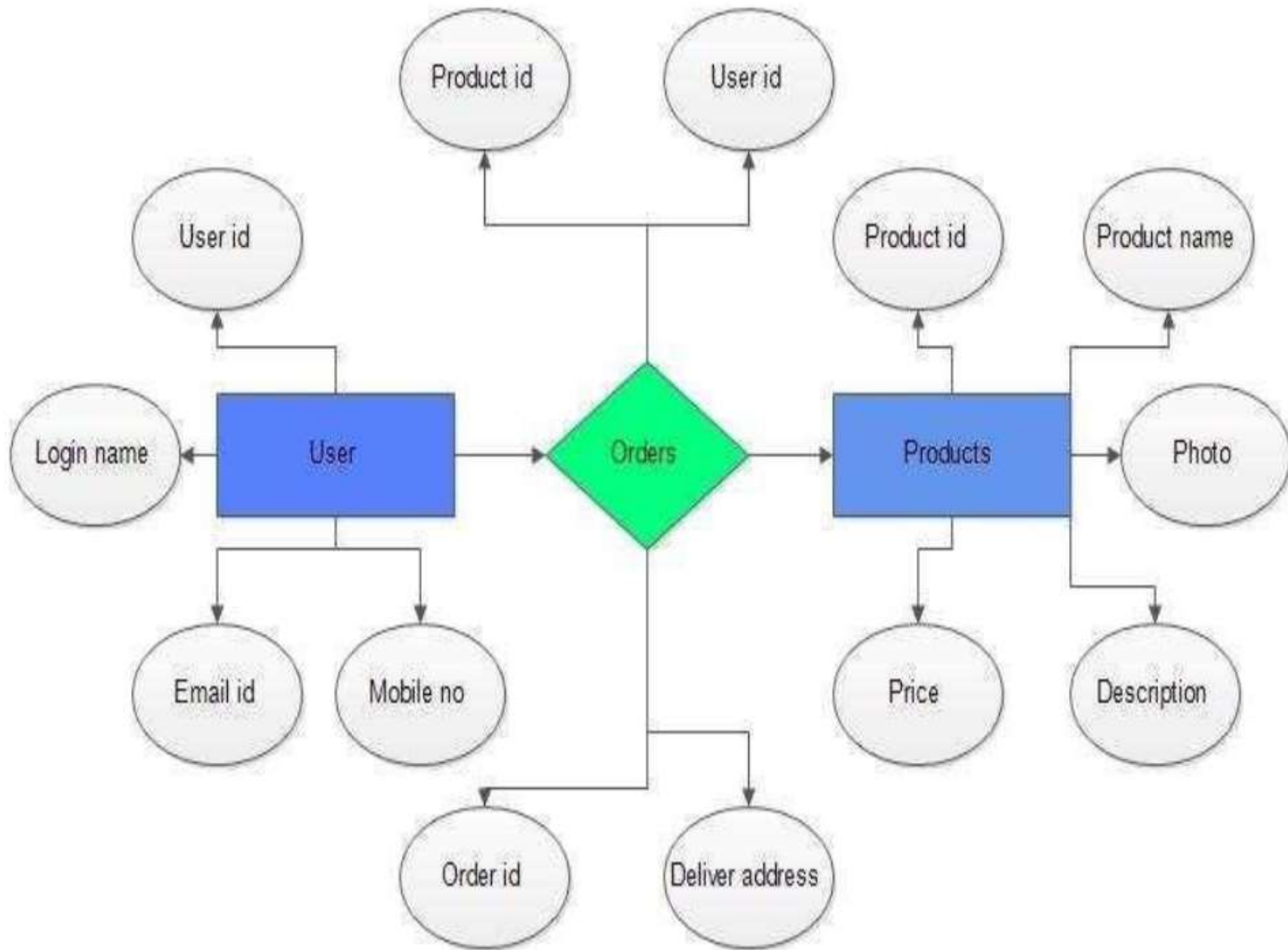
It deals with user activities. The end-user should be able to: Sign-in to the application to maintain a record of activities and Search for product items based on the search keyword. Add all the selected product items to a cart and customize the purchase at the end Perform a seamless payment process Get an order summary details page once the payment is complete



- ▶ **Registration:** A new user will have to register in the system by providing essential details in order to view the products in the system. The admin must accept a new user by unblocking him.
- ▶ **Login:** A user must login with his user name and password to the system after registration.
- ▶ **View Products:** Users. can view the list of products based on their names after successful login. A detailed description of a particular product with product name, product details, product image, and price can be viewed by users.
- ▶ **Search Product:** Users can search for a particular product in the list by name.
- ▶ **Add to cart:** The user can add the desired product to his cart by clicking add to cart option on the product. He can view his cart by clicking on the cart button. All products added by the cart can be viewed in the cart. Users can remove an item from the cart by clicking remove.
- ▶ **Submit Cart:** After confirming the items in the cart the user can submit the cart by providing a delivery address. On successful submitting the cart will become empty.
- ▶ **History:** In the history, the user will have a view of pending orders.
- ▶ **Edit Profile:** The user can view and edit the profile.

# DATA FLOW DIAGRAM

A Data Flow Diagram (DFD) is a structured analysis and design tool that can be used for flowcharting. A DFD is a network that describes the flow of data and the processes that change or transform the data throughout a system. This network is constructed by using a set of symbols that do not imply any physical implementation. It has the purpose of the clarifying system requirements and identifying major transformations. So it is the starting point of the design phase that functionally decomposes the requirements specifications down to the lowest level of detail. DFD can be considered to be an abstraction of the logic of an information-oriented or a process-oriented system flow-chart. For these reasons, DFD's are often referred to as logical data flow diagrams.



# Project Users and Admin Stories

The project is planned to be completed in 2 sprints. Tasks assumed to be completed in the sprint are: Creating the flow of the application and Initializing the git repository to track changes as development progresses. Writing the Java program to fulfill the requirements of the project.

# 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 Wishlist 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 a bulk upload option to upload a CSV for product 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 user



# Sprint I Objectives

- ▶ Create a git repository
- ▶ Create database schema (all tables along with their relationships)
- ▶ Create entities in Spring
- ▶ Create Microservice based structure.
- ▶ CRUD on Users and Products
- ▶ Create an eCommerce Template in Angular (Static only) to hold images and product lists.
- ▶ Develop Search Functionality in Angular
- ▶ Bulk upload implementation.

# Sprint II Objectives

- ▶ Cart option.
- ▶ Stock and Sales reports
- ▶ Create Data Transfer objects
- ▶ Create repository
- ▶ Create Service layer logic
- ▶ Create a Controller to direct the rest API
- ▶ Create Discount Microservice

# System Requirements

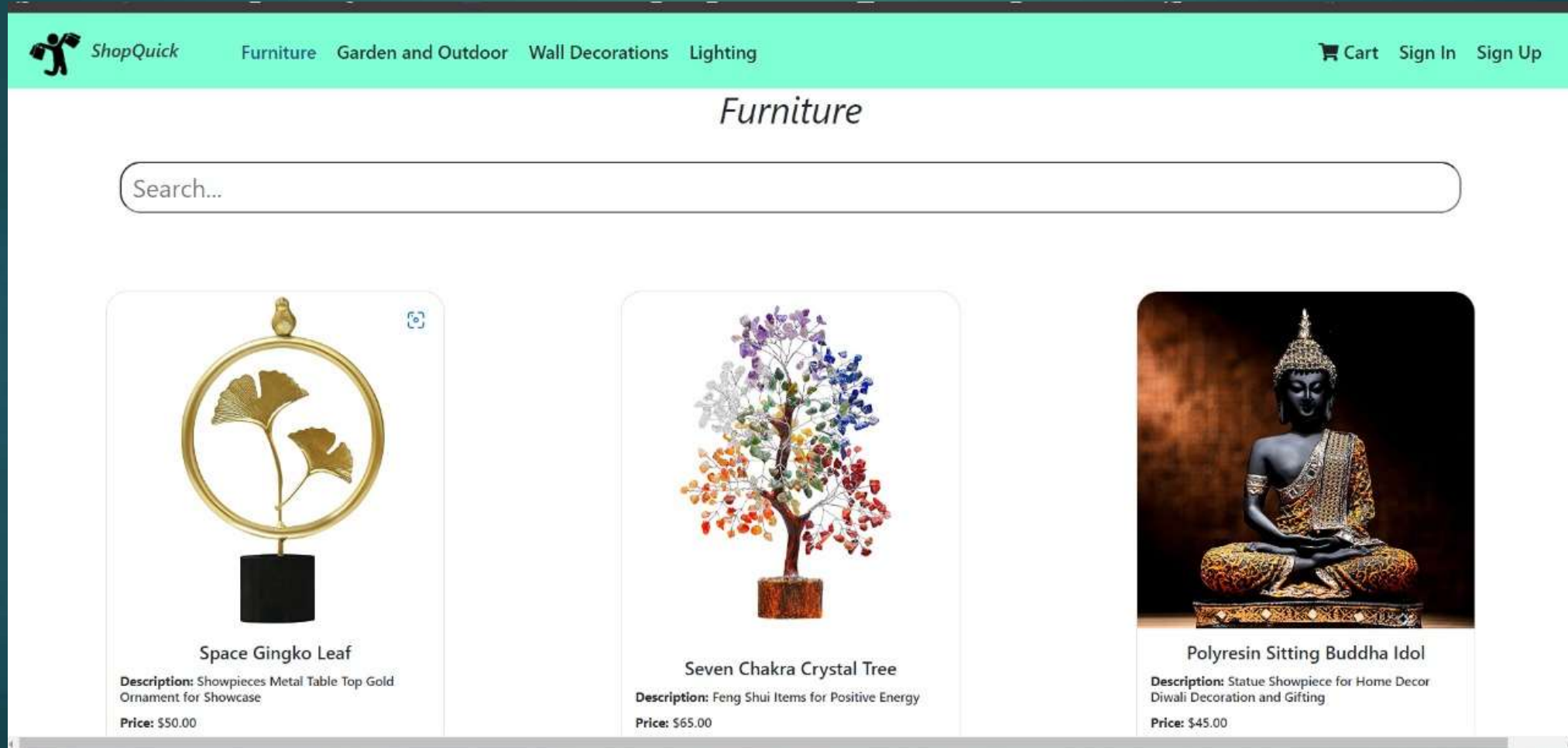
- CPU: Intel Core or Xeon 3GHz (or Dual Core 2GHz) or equal AMD CPU
- Cores: Single (Dual/Quad Core is recommended)
- RAM: 4 GB (6 GB recommended)
- Graphic Accelerators: nVidia or ATI with support of OpenGL 1.5 or higher
- Display Resolution: 1280×1024 is recommended, 1024×768 is minimum.

# Tools used


- ▶ Eclipse 2021-12
- ▶ MySQL Workbench
- ▶ Spring Boot
- ▶ MySQL
- ▶ Jdk 11
- ▶ Vscode

# Screenshot

## ► Welcome page



## ► Signup page



ShopQuick

Furniture Garden and Outdoor Wall Decorations Lighting

Cart Sign In Sign Up

### Sign Up

**Email address**


**Name**

**Password**


**Phone**

**Address**


Sign Up



## ► Sign-in page

 ShopQuick

Furniture Garden and Outdoor Wall Decorations Lighting

 Cart [Sign In](#) [Sign Up](#)


### Sign In

**Email address**

**Password**


☐ Remember Me

[Sign In](#)










## ► Product details page

 ShopQuick

Furniture Garden and Outdoor Wall Decorations Lighting

 Cart  Wishlist  Orders Tharun kumar Chinchili  Sign Out

### Product Detail



Hanging Fish for Room Decoration


**Description:** Handmade Hand-Painted Wall Hanging

**Price:** \$53.00

**Stock:** 22


**Quantity:**

**Subtotal:** \$53.00


[Add to Cart](#) 



► Cart page

 ShopQuick

[Furniture](#) [Garden and Outdoor](#) [Wall Decorations](#) [Lighting](#)

 [Cart](#) [Wishlist](#) [Orders](#) [Tharun kumar Chinchili](#) [Sign Out](#)

### My Cart

Photo	Name	Price	Quantity	Subtotal	Action
	Fresh Flowers Bouquet	\$90.00	<div><div>-</div><div>1</div><div>+</div></div>	\$90.00	<a href="#">Remove</a>
	Led Couple Peacock Birds	\$57.00	<div><div>-</div><div>1</div><div>+</div></div>	\$57.00	<a href="#">Remove</a>

Select Coupon:


1

▼

Total:  
\$147.00

Checkout

## ► Contact page(when stock <10)

 ShopQuick

DiscountUsersStocksOrdersAdminSign Out

### Contact us

We're open for any suggestion or just to have a chat

ADDRESS:  
198 West 21th Street,  
Suite 721 Bengaluru,  
India 10016

EMAIL:  
eshop@eshop.com

PHONE:  
+ 1235 2355 98

Name

Email

Subject


Create a message here

Send Message

### Follow us here

FACEBOOKTWITTERINSTAGRAMDRIBBBLE

► Coupons page

 ShopQuick


DiscountUsersStocksOrdersAdminSign Out

Coupons




Add Coupon

Couponcode	Action
<div>Previous1Next</div>	

## ► Orders page

 ShopQuick

Furniture Garden and Outdoor Wall Decorations Lighting

 Cart  Wishlist  Orders Tharun kumar Chinchili Sign Out

### Orders

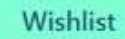
Order #	Customer Name	Customer Email	Customer phone	Shipping Address	Total	Order Data	Status	Action
2	Tharun kumar Chinchili	chtharun973@gmail.com	123	abc	\$147.00	Jul 14, 2022	New	<a href="#">Show</a> <a href="#">Cancel</a>

[Previous](#) [1](#) [Next](#)



## Garden and Outdoor

## Lighting




Tharun kumar Chinchili

[Sign Out](#)

## My WishList

Photo	ID	Name	Price	Action
	AF001	Fresh Flowers Bouquet	\$90.00	<a href="#">Remove</a>
	AF002	Artificial Cherry Orchid Flower	\$76.00	<a href="#">Remove</a>

► All products page(can add bulk product)


ShopQuick

Discount
Users
Stocks
Orders
Admin
Sign Out

To exit full screen, move mouse to top of screen or press F11

## Products

No file chosen













Photo	Code	Name	Type	Description	Price	Stock	Status	Action	Mail
	AF001	Fresh Flowers Bouquet	Drink	unique flower- Fresh Flowers Bouquet Arrangement Indoor Plant-orchid bouquet	\$90.00	35	Available	<a href="#">Edit</a>	<input type="button" value="email"/>
	AF002	Artificial Cherry Orchid Flower	Drink	Blooming Floret Artificial Cherry Orchid Flower Bunch	\$76.00	75	Available	<a href="#">Edit</a>	<input type="button" value="email"/>
	AF003	Artificial Marigold Flower	Drink	Diwali Wedding Party Garden Craft Wall Home Door Decoration Theme	\$82.00	20	Available	<a href="#">Edit</a>	<input type="button" value="email"/>
	IF001	Space Gingko Leaf	Books	Showpieces Metal Table Top Gold Ornament for Showcase	\$50.00	22	Available	<a href="#">Edit</a>	<input type="button" value="email"/>
	IF002	Seven Chakra Crystal Tree	Books	Feng Shui Items for Positive Energy	\$65.00	60	Available	<a href="#">Edit</a>	<input type="button" value="email"/>

## ► Edit profile page

 ShopQuick

Furniture Garden and Outdoor Wall Decorations Lighting

 Cart  Wishlist  Orders Tharun kumar Chinchili Sign Out

### Edit Profiles

**Email address**

**Name**


**Password**

**Phone**

**Address**

Update

## ► All users page

 ShopQuick

DiscountUsersStocksOrdersAdminSign Out

### Users

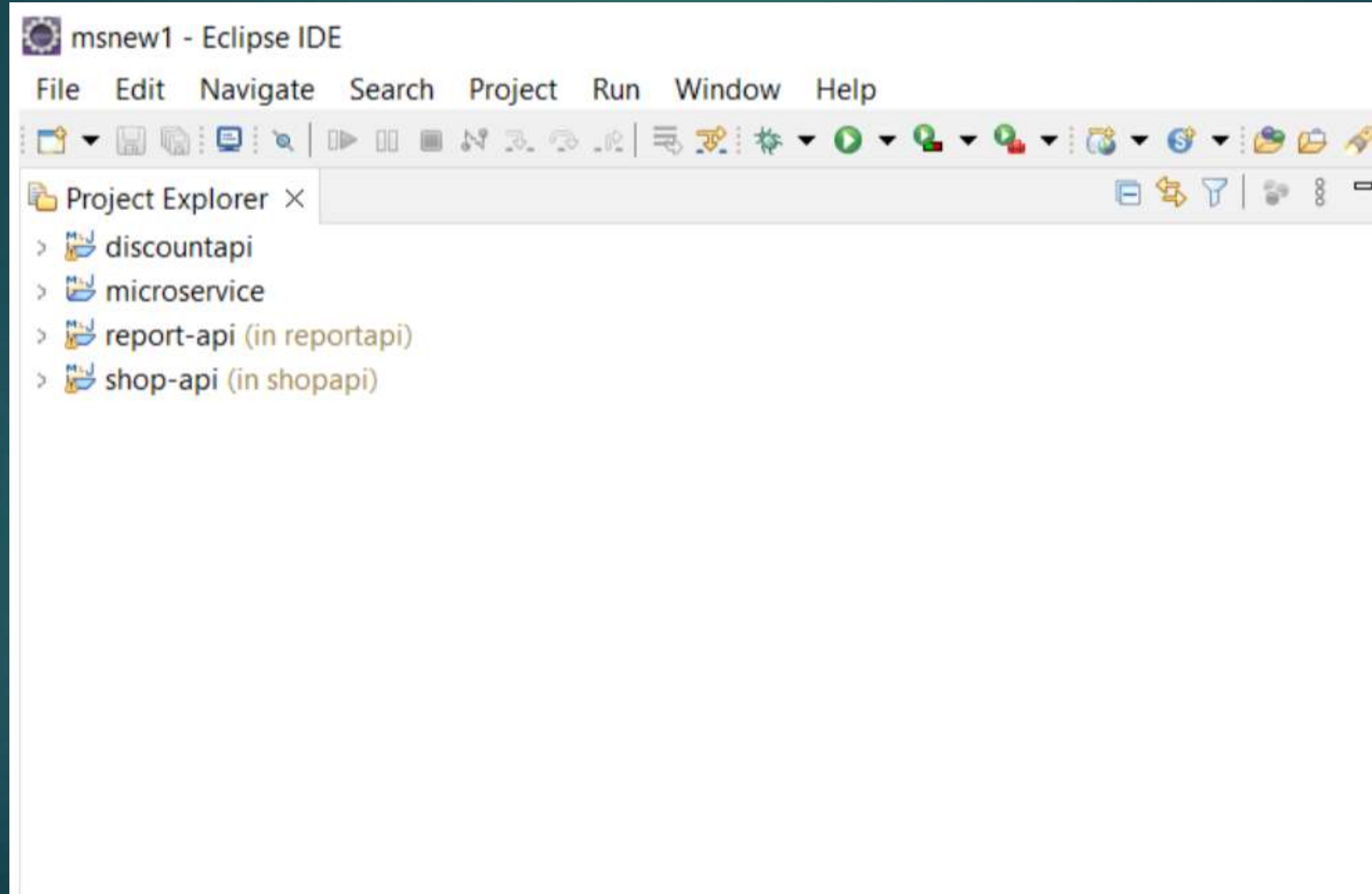
Enter Some Text To Search

Email	Name	Role	Action
admin@eshop.com	Admin	ROLE_MANAGER	<button>Remove Admin</button>
oneacc2070@gmail.com	Ch Tharun kumar	ROLE_CUSTOMER	<button>Add Admin</button>
threeacc2070@gmail.com	two	ROLE_CUSTOMER	<button>Add Admin</button>
chtharun973@gmail.com	Tharun kumar Chinchili	ROLE_CUSTOMER	<button>Add Admin</button>

Previous 1 Next



# Microservices Structures:





## Project Explorer X

- discountapi
  - src/main/java
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-11]
  - Maven Dependencies
  - src
  - target
    - HELP.md
    - mvnw
    - mvnw.cmd
  - pom.xml
- microservice
  - src/main/java
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-11]
  - Maven Dependencies
  - src
  - target
    - HELP.md
    - mvnw
    - mvnw.cmd
  - pom.xml
- report-api (in reportapi)
  - src/main/java
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-11]
  - Maven Dependencies
  - src
  - target
    - HELP.md
    - mvnw
    - mvnw.cmd
  - pom.xml
- shop-api (in shopapi)

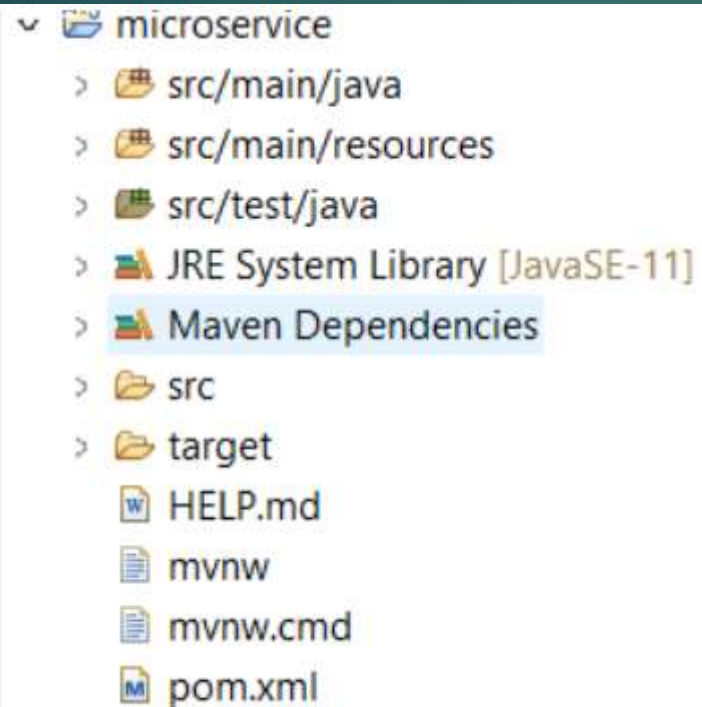
Markers Properties Servers Data Source Explorer Snippets Console X Progress

No consoles to display at this time.













# Discount MicroService



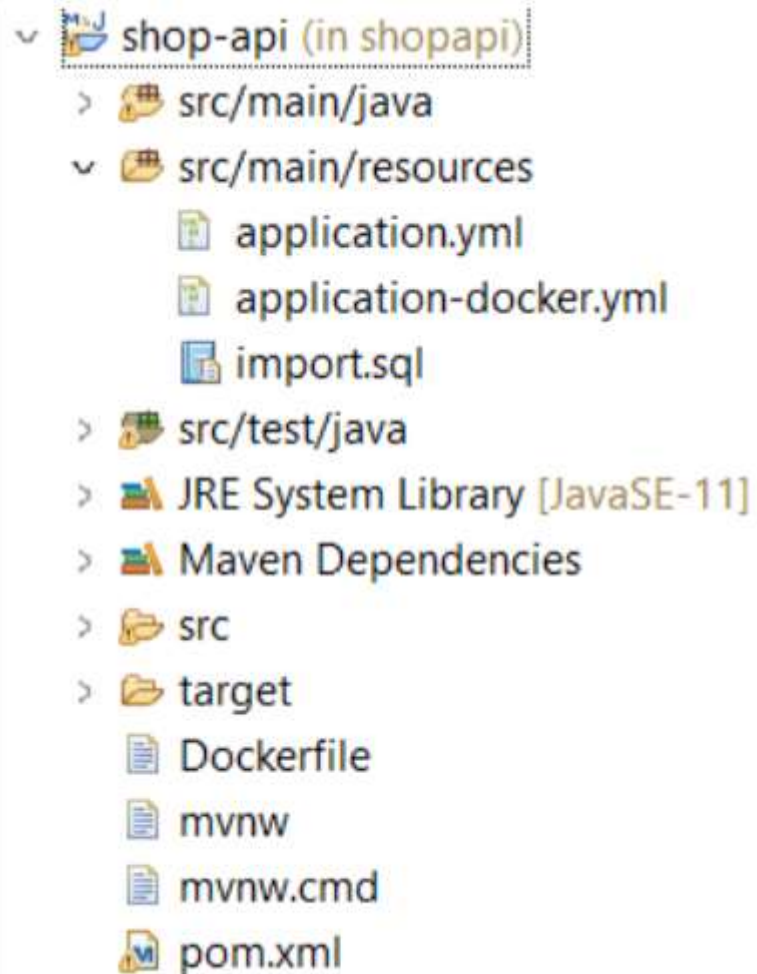
# MicroService



# Report MicroService

- ▼  report-api (in reportapi)
  - >  src/main/java
  - >  src/main/resources
  - >  src/test/java
  - >  JRE System Library [JavaSE-11]
  - >  Maven Dependencies
  - >  src
  - >  target
  -  HELP.md
  -  mvnw
  -  mvnw.cmd
  -  pom.xml

# Shop MicroService



# DataBase Tables:

The screenshot displays a database management interface. On the left, the 'Navigator' pane shows the 'ecommerce' schema with a list of tables: cart, discount, order\_main, product\_category, product\_in\_order, product\_info (selected), users, and wishlist. Below the tables are sections for Views, Stored Procedures, and Functions. The 'sys' database is also listed at the bottom.

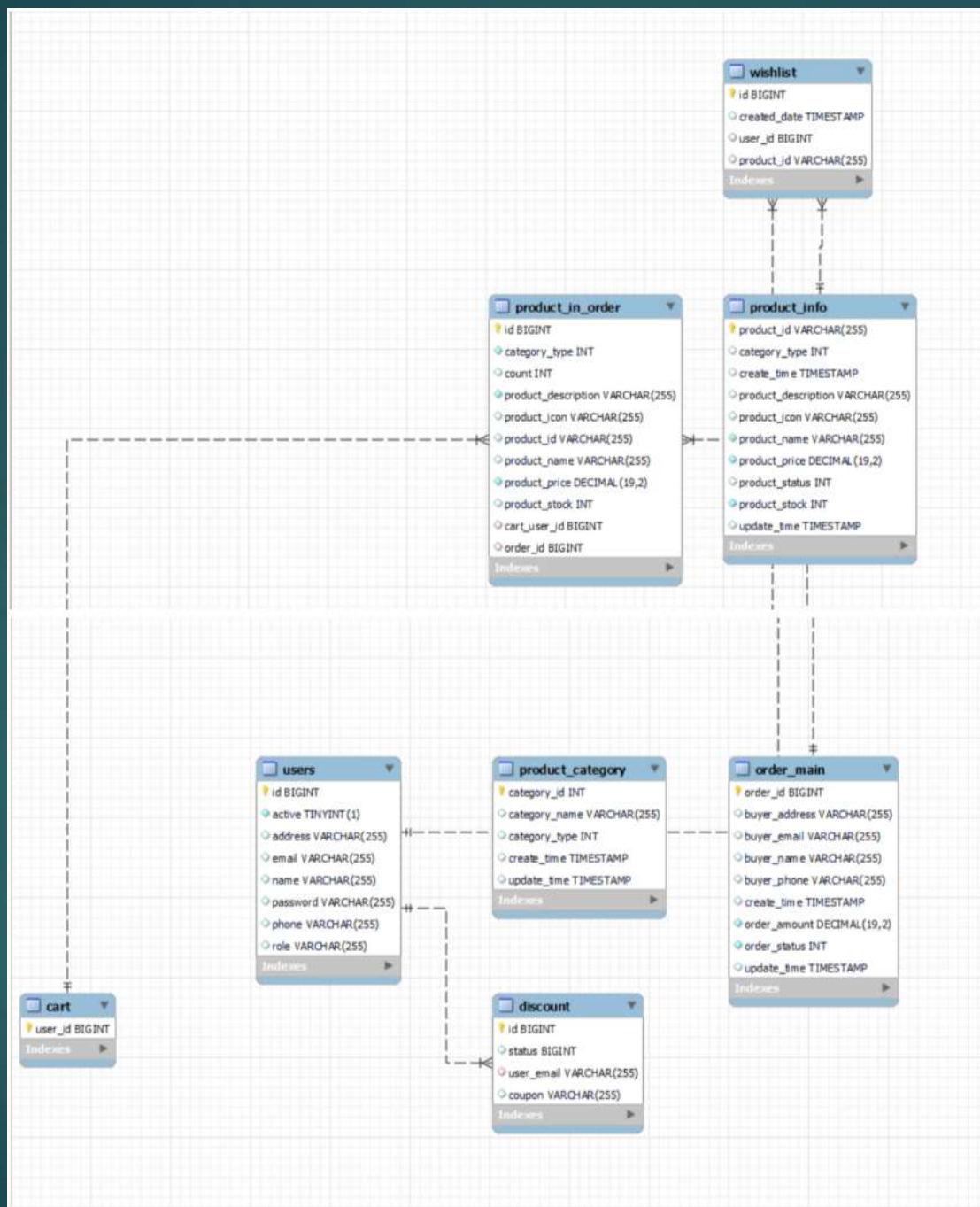
The main window shows a query editor with the following SQL statement:

```
1 • SELECT * FROM ecommerce.product_info;
```

Below the query editor is the 'Result Grid' showing the data returned by the query. The grid has four columns: product\_id, category\_type, create\_time, and product\_description. The data is as follows:

	product_id	category_type	create_time	product_description
▶	B0011	0	2022-07-14 08:04:01	Computer Table with Drawers
	B0012	0	2022-07-14 08:04:01	Wooden 4 Seater Dining Table Set
	B0013	0	2022-07-14 08:04:01	Colourful Fabric Chair
	B0014	0	2022-07-14 08:04:01	Rectangular Wooden Console Table
	B0015	0	2022-07-14 08:04:01	Wooden Center Table
	C0011	2	2022-07-14 08:04:01	Iron Titan Leaf Metal Wall Art
	C0012	2	2022-07-14 08:04:01	Iron Double Ring In Flower Wall Art







# Unique Selling Points of the Application

- ▶ The application is designed to keep on running and taking user inputs even after exceptions occur. To terminate the application, an appropriate option needs to be selected.
- ▶ With this application, one can easily access the product items as their own by adding a cart.
- ▶ Total price is also determined by its own.
- ▶ Any user can sign up and there are no restrictions.
- ▶ Online payment is also accepted.

# Future Scope

- Social networking sites facilitate the purchasing of products from the comfort of our homes, offices, or anywhere with easy login.
- As internet use has increased, the eCommerce business has also witnessed a sudden flourishing with it. This leads to an understanding that the internet has influenced the broadening of eCommerce businesses to a considerable proportion. So, we may expect the blooming of in near future in connection with the rise in internet usage.
- Also, eCommerce has made the transportation of goods and services between consumers and online shops an effortless task. It even offers customers a tension-free environment to customers and makes their purchases more smooth.

# Pros...

- Can shop for 24\*7.
- No need for cash in hand.
- A lot of stores within a click away.
- Comparison is easy.
- No queue to wait.
- Shopping Privacy.
- Regular discount coupons available

# Cons

- Not able to touch or try.
- Shipping and handling cost is more.
- Credit/Debit card insecurity.
- Take much time if connection is slow.
- Returning goods is difficult.
- Actual product may differ.
- Availability of internet is a must.

# Tips For Protection

- Secured sites should be used.
- Spams should be avoided.
- Keep password private.
- Read privacy and security policy carefully.
- Consider alternative payment method.
- https:// should be preferred.

# Conclusion

- It is an user friendly application and promotes user to purchase and shop faster.
- With new technology comes better way of doing things.
- Being able to buy anytime anywhere.
- Allows to place order before purchasing.
- Home delivery - you don't have to travel to shops.
- Widespread effects on economy and e-commerce.