

# **GREAT LEARNING CAPSTONE PROJECT**

## **SHOP FOR HOME**

**Group Name- Java FSD C5- Group 5**

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# 1. Introduction

Electronic commerce refers to the buying and selling of products or services over electronic systems such as the Internet and other computer networks. The Shopping Cart is very important feature used in e-commerce to assist people making purchases products online. It also includes the entire online process of developing, marketing, selling, delivering, servicing and paying for products and services. In order to purchase a shopping cart is provided to the user. The amount of trade conducted electronically has grown extraordinarily with widespread Internet usage. The use of commerce is conducted in this way, spurring and drawing on innovations in electronic funds transfer, supply chain management, Internet marketing, online transaction processing, electronic data interchange (EDI), inventory management systems, and automated data collection systems. The e-commerce site will let customers to view and order products online from any part of the world.

The main advantage of e-commerce over traditional commerce is the user can browse online shops, compare prices and order merchandise sitting at home on their PC. Secure registration and profile management facilities for Customers. Shopping Cart feature allows online shopping customers to “place” items in the cart. It Decreases the cost of creating, processing, distributing, storing and retrieving paper-based information. Expands the marketplace to national and international markets. Upon “checkout” the software calculates as total for the order including shipping and handling postage, packing and taxes, if applicable. Reduces the time between the outlay of capital and the receipt of products and services. Customers should be able to mail the Shop about the items they would like to see in the Shop

The proposed system helps in building a website to buy, sell products or goods online using internet connection. Enables consumers to shop or do other transactions 24 hours a day, all year round from almost any location. It can be accessed over the Internet.

Purchasing of goods online, user can choose different products based on categories , online payments , delivery services and hence covering the disadvantages of the existing system and making the buying easier and helping the vendors to reach wider market. It Provides consumers with more choices. Customer can purchase Products Online.

## 2. Scope

E-commerce has bloomed over the years and is one of the fastest-growing domains in the online world. Though it took some time for this to be accepted by the end-users, today we are at a point where the majority of the people love to shop online. There were numerous concerns revolving around online shopping at its launch, but over years people tend to have started trusting E-commerce for all their shopping needs.

In India, people prefer shopping online these days rather than having to visit the physical store. The payment features that are smart and secure as well as the cash on delivery (COD), which makes the payment, even more, safer with hassle-free shipping, easy returns and reach out.

Let us check out the development or growth of this e-commerce sector in India. We have specifically collected substantial data from across the web after analysis and inferences of information acquired from authentic sources. In the year 2013, around 8 million people have been shopping online. And, the most interesting factor is that they have done shopping from some of the major online shopping sites. And, the number 8 million had risen to around 100 million by the year 2016. The new shoppers (customer base) accounting to around 50% came from the tier one and tier two towns of India. Today, we can proudly say that India is one of the places where online shopping has been booming and will continue to do so. This means that online shopping has a lot of prospects in the future.

### **3. Purpose**

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.

A typical online store enables the customer to browse the firm's range of products and services, view photos or images of the products, along with information about the product specifications, features and prices. Online stores usually enable shoppers to use "search" features to find specific models, brands or items.

## **4. Technology Stack**

**1. Angular**

**2. Java(Spring Boot)**

**3. Tomcat**

**4. MySql**

## **5. Software Requirements**

### **Front End :-**

Front end is build using Angular.

### **Back End :-**

Java(Spring Boot Microservice) is used for Back-end.

### **Webserver :-**

Tomcat is used for web server.

### **Database :-**

MySql is used for database.

## 6. Design Goals

- The design of the web application involves the design of the forms for listing the products, search for products, display the complete specification for the product, and design a shopping cart that is easy to use.
- Design of an interactive application that enables the user to filter the products based on different parameters.
- Design of an application that has features like drag and drop etc.
- Design of application that decreases data transfers between the client and the server.



## **7. Shop Products Module**

This module starts when the user visits the home page or when a user searches for a product by entering a search term. This part of the application includes displaying all the products that are available or the products that match the search term entered by the user. The user can then filter these products based on various parameters like manufacturer, product type, operating system supported or a price range. The user browse through the products and each product would be displayed with an image and its features like operating system supported, number of user licenses and if it is a full version or an upgrade version. A user can add a product to the cart either by dragging the product and dropping it in the cart or by clicking a button. The user would be able to see the shopping cart summary.

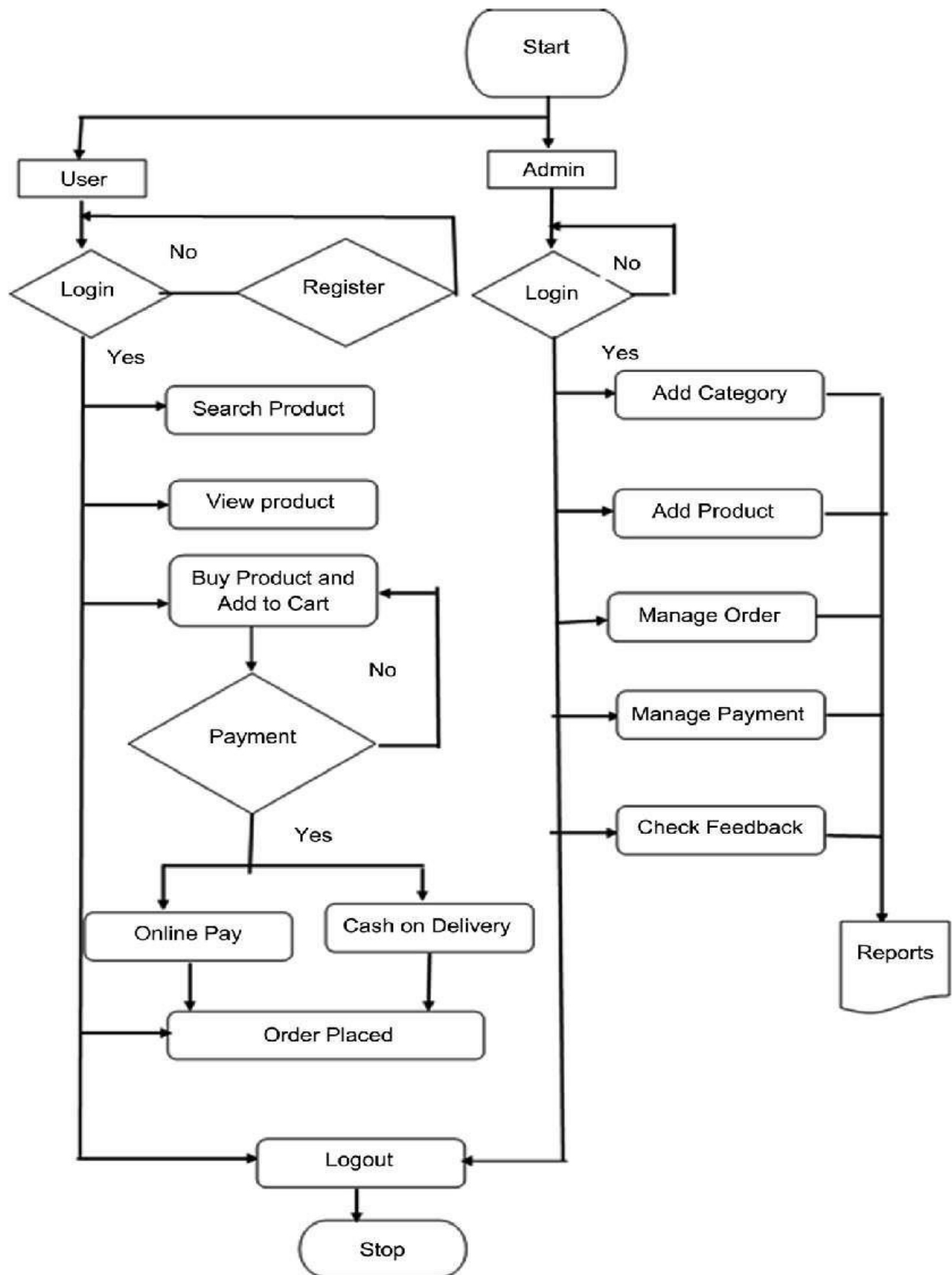
## **8. Product Description Module**

This module starts when a user visits the product description page. A user can view various images of the product of different sizes. The use can see an enlarged image in a popup window. The user can view the complete specification of the product like its features, operating system supported, system requirements etc. A user can also view the manufacturer information and also information about rebates, exchange policies etc. A user can also view the reviews of the product. A user can also write a review for the product.

## **9. Shopping Cart Module**

This module starts when the user views the shopping cart. All the products that have been added to the shopping cart by the user are listed along with their price and the quantity. The total price of all the products added to cart is displayed. A user can edit the quantity of each product or remove the product from the shopping cart. A user can remove the product from the cart by clicking a button or by dragging the product and dropping it outside the cart. The total price changes accordingly when a user edits the quantity of a product or when a product is removed from the cart.

## 10. FLOWCHART



# 11. Results

The application can be used for any Ecommerce application. It is easy to use. User friendly screens are provided. The application is easy to use and interactive making online shopping a recreational activity for users. It has been thoroughly tested and implemented.

## Screenshots

### 1. Home Source Code :-

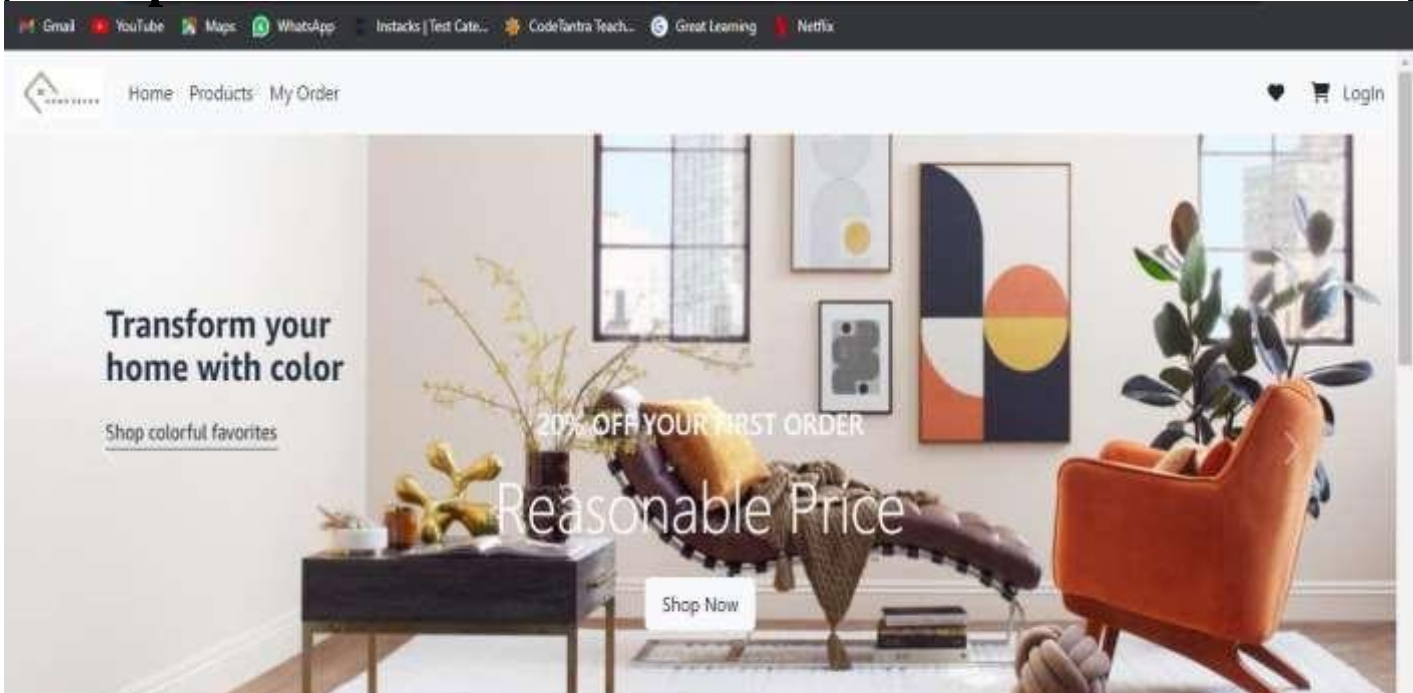
```
<div class="carousel" style="padding-bottom: 5px">
  <div
    id="carouselExampleInterval"
    class="carousel slide"
    data-bs-ride="carousel"
  >
    <div class="carousel-inner">
      <div class="carousel-item active" data-bs-interval="10000">
        
        <div class="carousel-caption d-flex flex-column align-items-center justify-content-center">
          <div class="p-3" style="max-width: 700px;">
            <h4 class="text-light text-uppercase font-weight-medium mb-3">20% Off Your First Order</h4>
            <h3 class="display-4 text-white font-weight-semi-bold mb-4">Reasonable Price</h3>
            <a href="/products" class="btn btn-light py-2 px-3">Shop Now</a>
          </div>
        </div>
      </div>
      <div class="carousel-item" data-bs-interval="2000">
        
        <div class="carousel-caption d-flex flex-column align-items-center justify-content-center">
          <div class="p-3" style="max-width: 700px;">
            <h4 class="text-light text-uppercase font-weight-medium mb-3">20% Off Your First Order</h4>
            <h3 class="display-4 text-white font-weight-semi-bold mb-4">Reasonable Price</h3>
            <a href="/products" class="btn btn-light py-2 px-3">Shop Now</a>
          </div>
        </div>
      </div>
      <div class="carousel-item">
        
        <div class="carousel-caption d-flex flex-column align-items-center justify-content-center">
          <div class="p-3" style="max-width: 700px;">
```

```

<div class="col-lg-3">
  <div class="product-item">
    <div class="product-image">
      <a routerLink="products">
        
      </a>
    </div><div class="product-title">
      <a routerLink="products">Chair</a>
    </div>
    <div class="product-price">
      <h3><span>₹</span>3799</h3>
      <a class="btn" routerLink="products"><i routerLink="products" class="fa fa-shopping-cart"></i>Shop Now</a>
    </div>
  </div>
</div>
<div class="col-lg-3">
  <div class="product-item">
    <div class="product-image">
      <a routerLink="products">
        
      </a>
    </div><div class="product-title">
      <a routerLink="products">Dinnig</a>
    </div>
    <div class="product-price">
      <h3><span>₹</span>21999</h3>
      <a class="btn" routerLink="products"><i routerLink="products" class="fa fa-shopping-cart"></i>Shop Now</a>
    </div>
  </div>
</div>
</div>

```

## Output :-



```

        <h4 class="text-light text-uppercase font-weight-medium mb-3">20% Off Your First Order</h4>
        <h3 class="display-4 text-white font-weight-semi-bold mb-4">Reasonable Price</h3>
        <a href="/products" class="btn btn-light py-2 px-3">Shop Now</a>
      </div>
    </div>
  </div>
</div>
<button class="carousel-control-prev" type="button" data-bs-target="#carouselExampleInterval"
data-bs-slide="prev" >
  <span class="carousel-control-prev-icon" aria-hidden="true"></span>
  <span class="visually-hidden">Previous</span>
</button>
<button
  class="carousel-control-next"
  type="button"
  data-bs-target="#carouselExampleInterval"
  data-bs-slide="next"
  >
  <span class="carousel-control-next-icon" aria-hidden="true"></span>
  <span class="visually-hidden">Next</span>
</button>
</div>
</div>

<!-- cards import -->
<!-- Featured Product Start -->
<div class="container">
  <div class="featured-product product">
    <div class="container-fluid">
      <div class="section-header text-center">
        <h1>Featured Product</h1>
      </div>
    </div>
  </div>

  <!-- cards import -->
  <!-- Featured Product Start -->
  <div class="container">
    <div class="featured-product product">
      <div class="container-fluid">
        <div class="section-header text-center">
          <h1>Featured Product</h1>
        </div>
        <div class="row align-items-center ">
          <div class="col-lg-3" >
            <div class="product-item">
              <div class="product-image">
                <a routerLink="products">
                  
                </a>
              </div><div class="product-title">
                <a routerLink="products">Sofa</a>
              </div>
              <div class="product-price">
                <h3><span>₹</span>20099</h3>
                <a class="btn" routerLink="products" ><i routerLink="products" class="fa fa-shopping-cart"></i>
                  Shop Now</a>
              </div>
            </div>
          </div>
          <div class="col-lg-3" >
            <div class="product-item">
              <div class="product-image">
                <a routerLink="products">

```



## 2.REGISTER SOURCE CODE

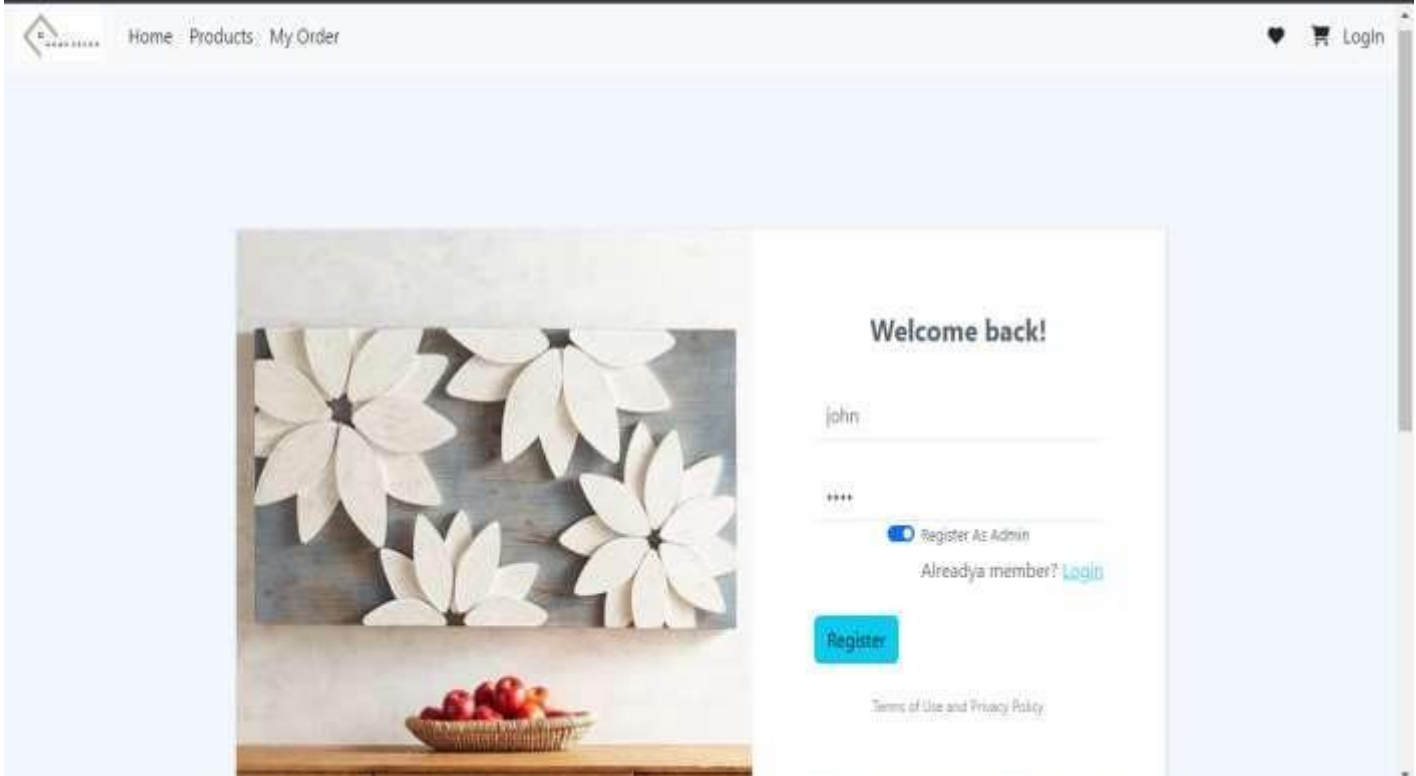
```
<div class="register-photo">
  <div *ngIf="alert_reg" class="container alert alert-success alert-dismissible fade show" role="alert">
    <strong>{{message}}</strong>
    <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
  </div>
  <div class="form-container">
    <div class="image-holder"></div>
    <form method="post">
      <h2 class="text-center"><strong>Welcome back!</strong></h2>
      <div class="form-field"><input class="form-control" id="username" type="Username" name="Username"
placeholder="Username"></div>
      <br>
      <div class="form-field"><input class="form-control" id="pwd" type="password" name="password"
placeholder="Password"></div>
      <div class="form-field">
        <div class="d-flex justify-content-center align-items-center">
          <br>
          <div class="form-check form-switch">
            <input class="form-check-input" type="checkbox" role="switch" id="usertype">
            <label class="form-check-label" for="flexSwitchCheckDefault">Register As Admin</label>
          </div>
        </div>
        <div class="d-flex justify-content-end">
          <div>Already a member? <a routerLink="/login" class="text-info">Login</a> </div>
        </div><br>
      </div>
      <div class="form-group"><button class="btn btn-success btn-block btn-info" (click)="Register()"
type="submit">Register</button></div><br><a class="already" href="#">Terms of Use and Privacy
Policy</a>
    </form>
  </div>
```

```

<div class="form-container">
  <div class="image-holder"></div>
  <form method="post">
    <h2 class="text-center"><strong>Welcome back!</strong></h2>
    <div class="form-field"><input class="form-control" id="username" type="Username" name="Username"
placeholder="Username"></div>
    <br>
    <div class="form-field"><input class="form-control" id="pwd" type="password" name="password"
placeholder="Password"></div>
    <div class="form-field">
      <div class="d-flex justify-content-center align-items-center">
        <br>
        <div class="form-check form-switch">
          <input class="form-check-input" type="checkbox" role="switch" id="usertype">
          <label class="form-check-label" for="flexSwitchCheckDefault">Register As Admin</label>
        </div>
      </div>
      <div class="d-flex justify-content-end">
        <div>Alreadya member? <a routerLink="/login" class="text-info">Login</a> </div>
      </div><br>
      <div class="form-group"><button class="btn btn-success btn-block btn-info" (click)="Register()"
type="submit">Register</button></div><br><a class="already" href="#">Terms of Use and Privacy
Policy</a>
    </form>
  </div>
</div>

```

## Output:-





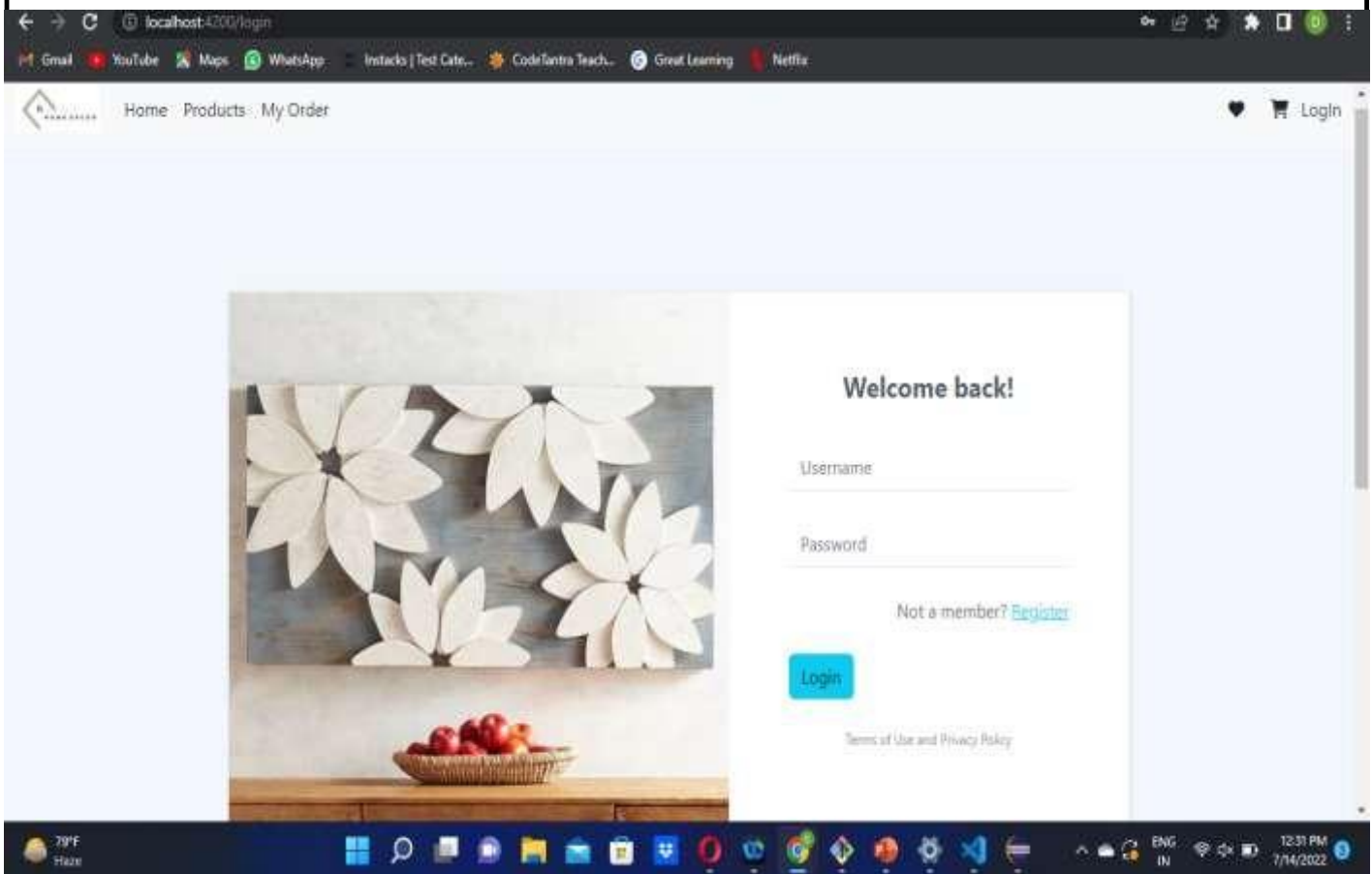
### 3.LOGIN SOURCE CODE :-

```
<div class="register-photo">
  <div *ngIf="loggedin"class="p-2 container alert alert-warning alert-dismissible fade show" role="alert">
    <strong>{{message}}</strong>
    <button type="button"class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
  </div>
  <div class="form-container">
    <div class="image-holder"></div>
    <form method="post">
      <h2 class="text-center"><strong>Welcome back!</strong></h2>

      <div class="form-field"><input class="form-control" id="username" type="Username"
name="Username" placeholder="Username"></div>
      <br>
      <div class="form-field"><input class="form-control" id="pwd" type="password" name="password"
placeholder="Password"></div>
      <br>

      <div class="form-field">
        <div class="d-flex justify-content-end">
          <div>Not a member? <a routerLink="/register" class="text-info">Register</a> </div>
        </div><br>
      </div>
      <div class="form-group"><button class="btn btn-success btn-block btn-info" (click)="LogIn()"
type="submit">Login</button></div><br><a class="already" href="#">Terms of Use and Privacy
Policy</a>
    </form>
  </div>
</div>
```

# Output :-



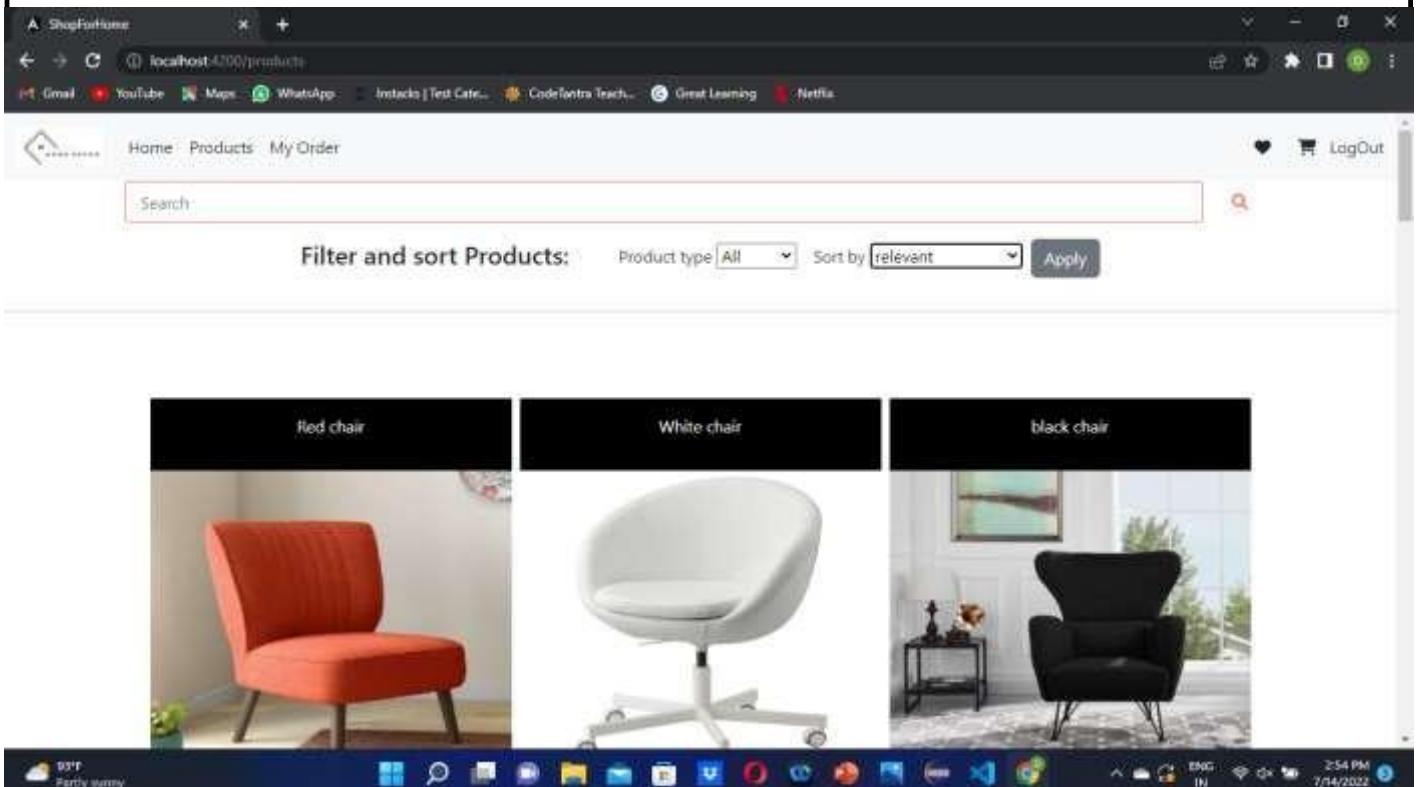
## 4 PRODUCT SOURCE CODE :-

```
2 <!-- SEARCH BAR -->
3 <div class="container">
4   <div class="search d-flex justify-content-center">
5     <input type="text" id="searchword" placeholder="Search" />
6     <button class="mx-3" (click)="searched()" ><i class="fa fa-search" ></i></button>
7   </div>
8 </div>
9
10
11
12 <!-- Filter and sort -->
13 <div class="container d-flex justify-content-center align-items-center">
14   <h4>Filter and sort Products:</h4>
15   <menu>
16     <label for="product-type" class="px-2">
17       Product type
18       <select name="product-type" id="product-type" class="filter">
19         <option value="0" selected>All</option>
20         <option *ngFor="let allct of allcat" value="{{ allct }}">
21           {{ allct }}
22         </option>
23       </select>
24     </label>
25     <label for="sort" class="px-2">
26       Sort by
27       <select name="sort" id="sort">
28         <option value="all">relevant</option>
29         <option value="HL">Price:High to Low</option>
30         <option value="LH">Price:Low to High</option>
31       </select>
```

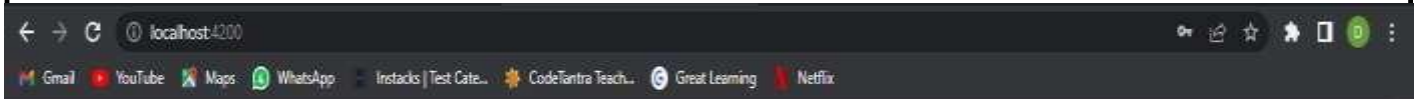




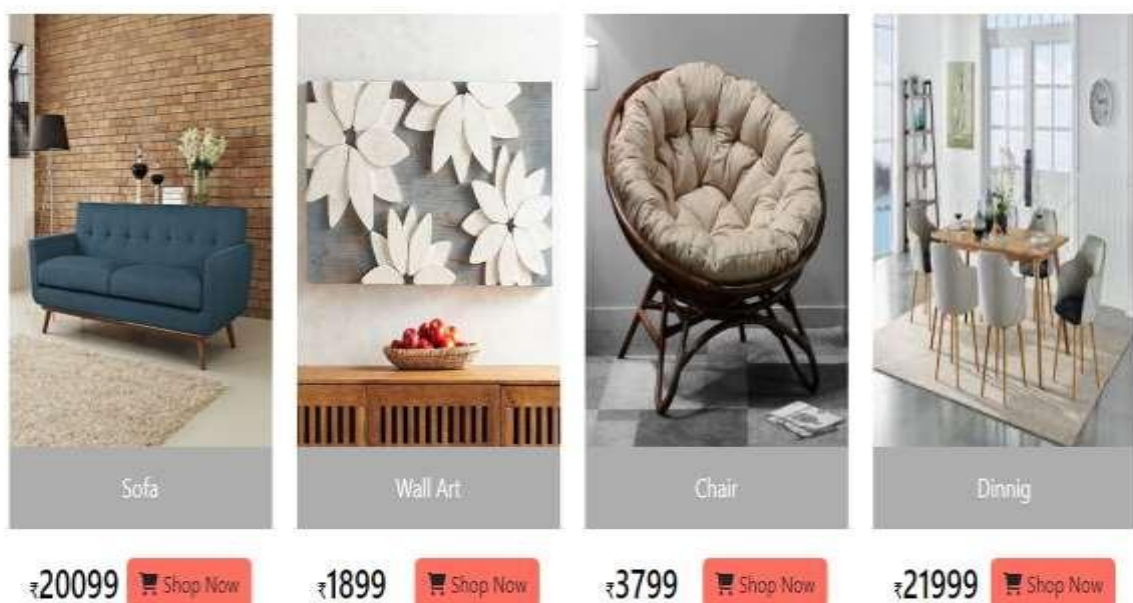
## Output :-



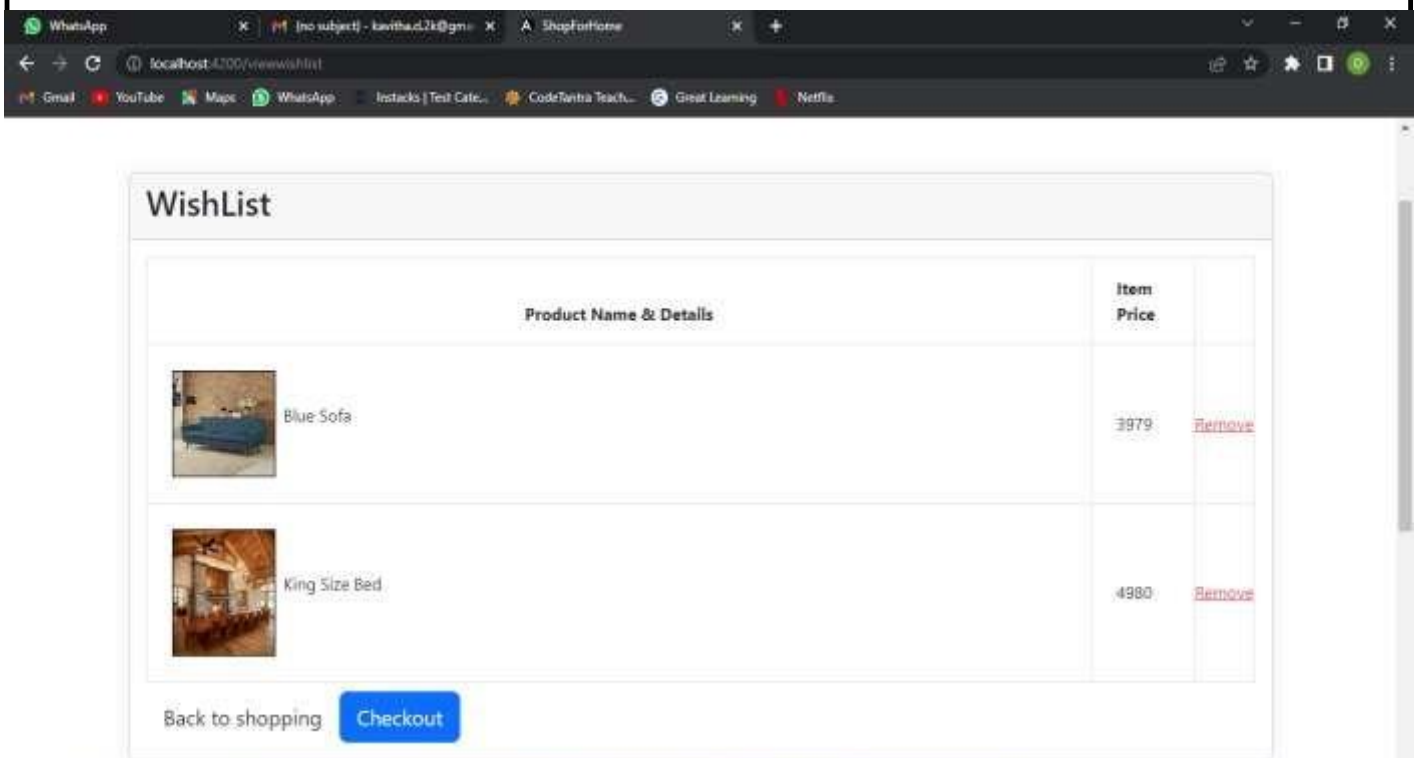
## CATEGORIES :-



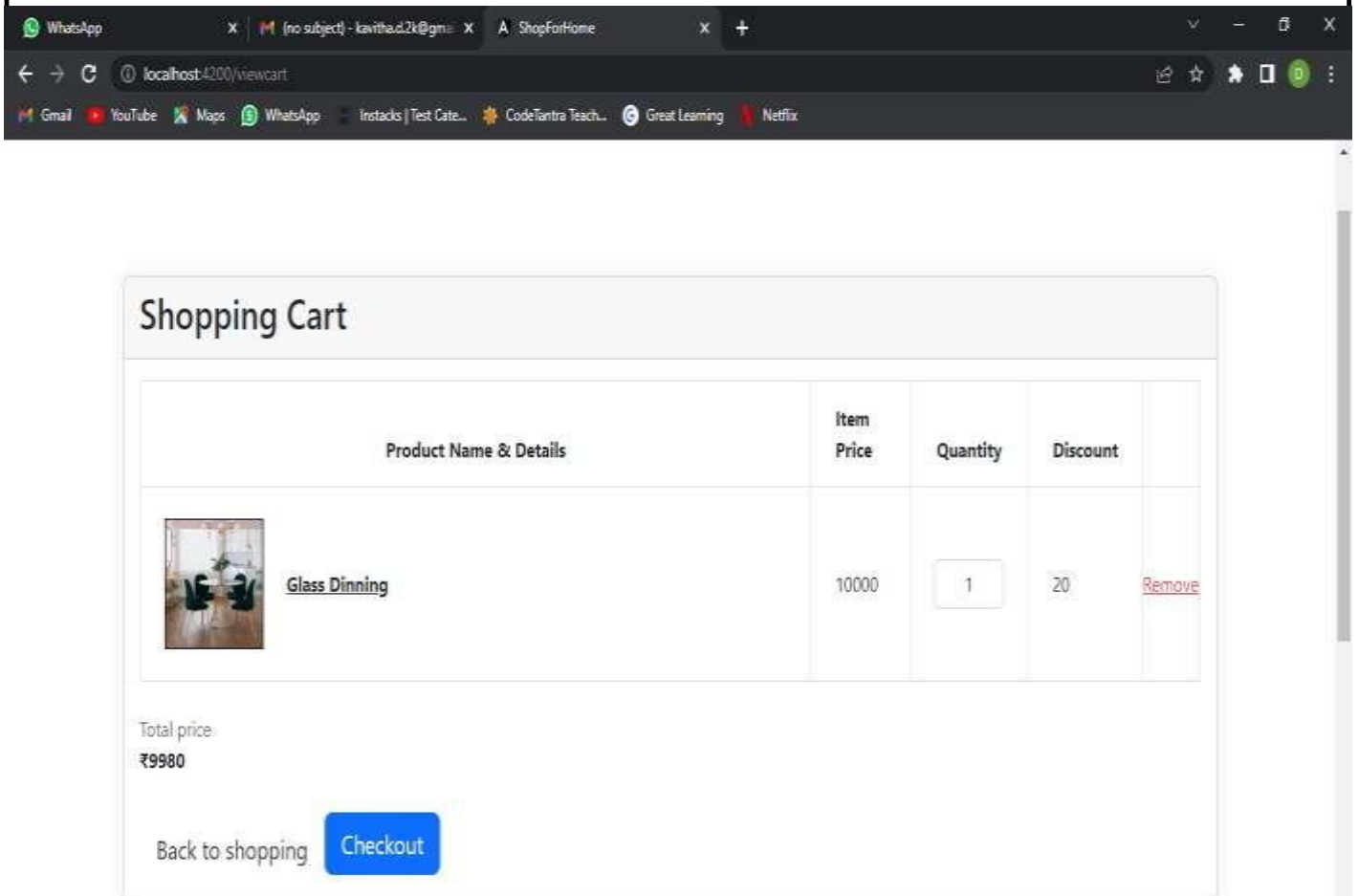
## Featured Product



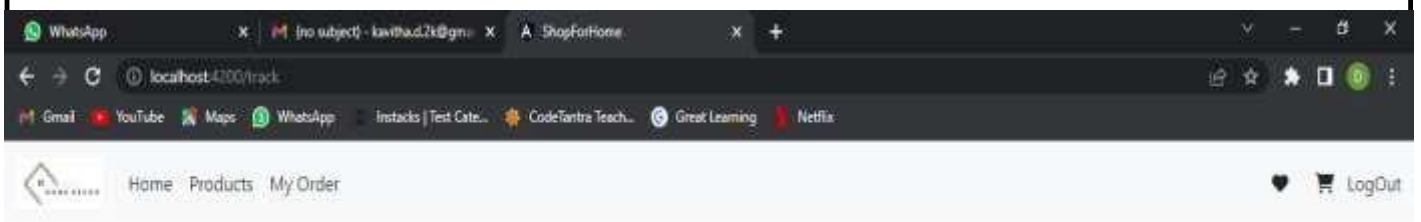
## WISHLIST'S :-



## CART :-



## ORDERS:-



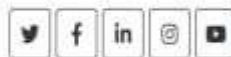
### Get in Touch

123 E Store, Los Angeles, USA

email@example.com

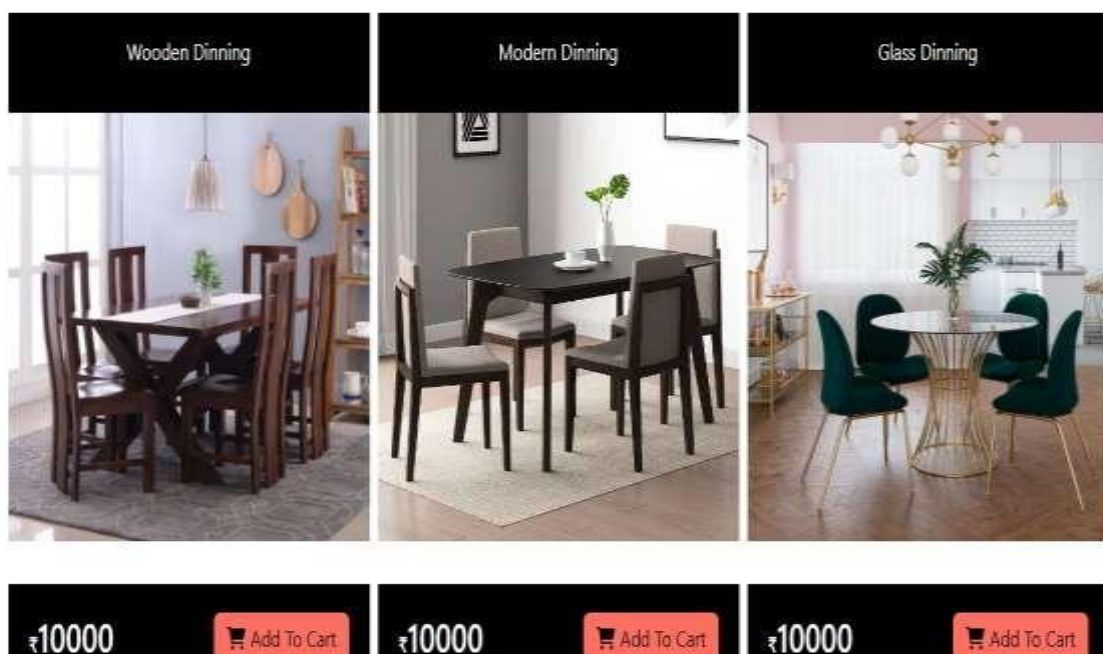
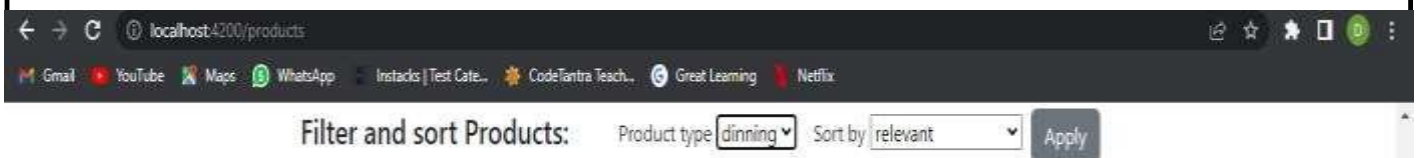
+123-456-7890

### Follow Us



We Accept:

## FILTER AND SORT PAGE:-



# ADMIN CURD OPERATIONS ON PRODUCTS

localhost:4200/admin

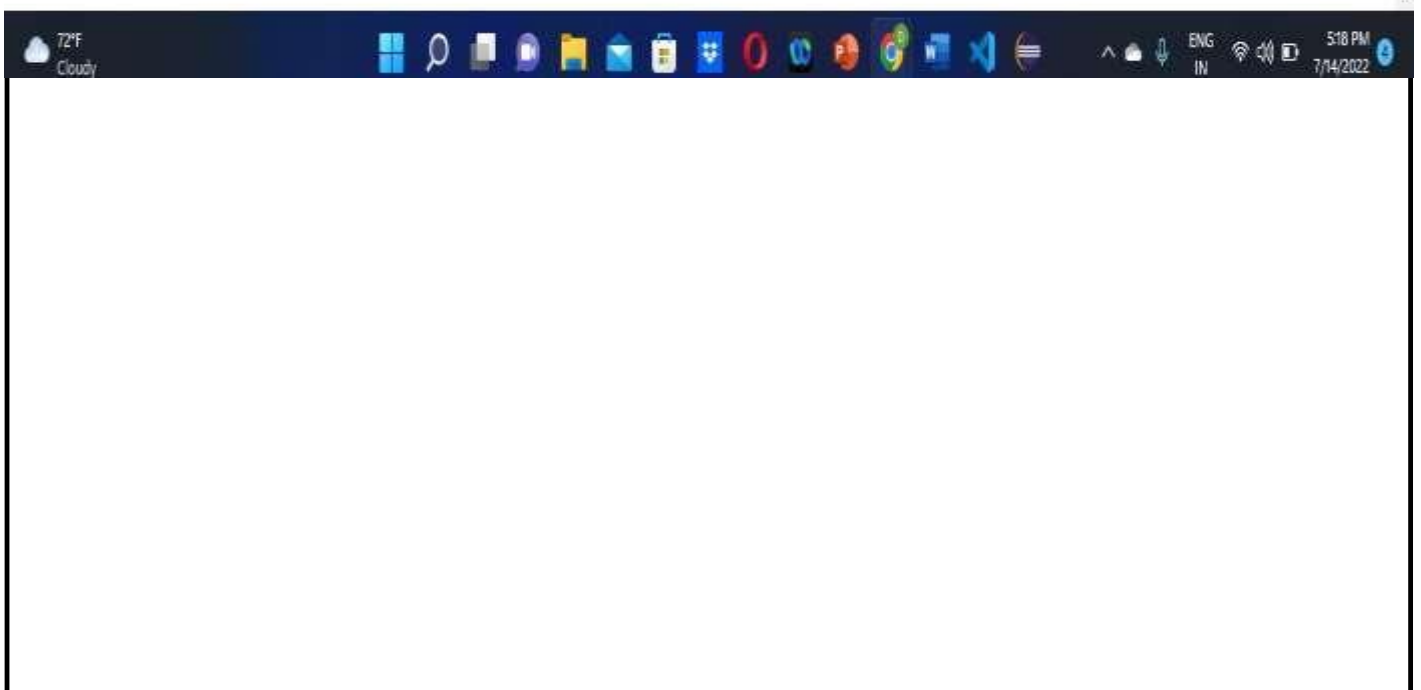
Home Products Admin Controls

Users Products Sales

Product name	Product ImageURL	Product type	Product price	Product description	Stocks
<input type="text" value="product name"/>	<input type="text" value="product image URL"/>	<input type="text" value="product type"/>	<input type="text" value="product price"/>	<input type="text" value="product desc"/>	<input type="text" value="product stocks"/>

Add

Product name	Product type	Stocks
black chair	chair	95
Red chair	chair	99
yellow chair	chair	98
Green chair	chair	99
White Sofa	sofa	99
Leather Sofa	sofa	99



## 12. Challenges

- Compatibility with browsers like Mozilla Firefox, Internet explorer etc
- Using a layered approach in developing the application which would make the application maintainable.
- Learning new technologies like using Spring Boot behavior and Angular . The overall idea of doing this project is to get a real time experience. Learn new technologies.



13.

## **CONCLUSION**

The 'Online Shopping' is designed to provide a web based application that would make searching, viewing and selection of a product easier. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user's input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews

## 14. Future Scope

The following things can be done in future.

- The current system can be extended to allow the users to create accounts and save products in to wish list.
- The users could subscribe for price alerts which would enable them to receive messages when price for products fall below a particular level.
- The current system is confined only to the shopping cart process. It can be extended to have an easy to use check out process.
- Users can have multiple shipping and billing information saved. During checkout they can use the drag and drop feature to select shipping and billing information.