

# **GREAT LEARNING CAPSTONE PROJECT**

## **SHOP FOR HOME**

Group Name:-Java-GCP-IP-C2-G5

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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. PROBLEM STATEMENT**

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

There are 2 users on the application: 1. User  
2. Admin

## **3. USER FUNCTIONALITIES**

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.

## **4. ADMIN FUNCTIONALITIES**

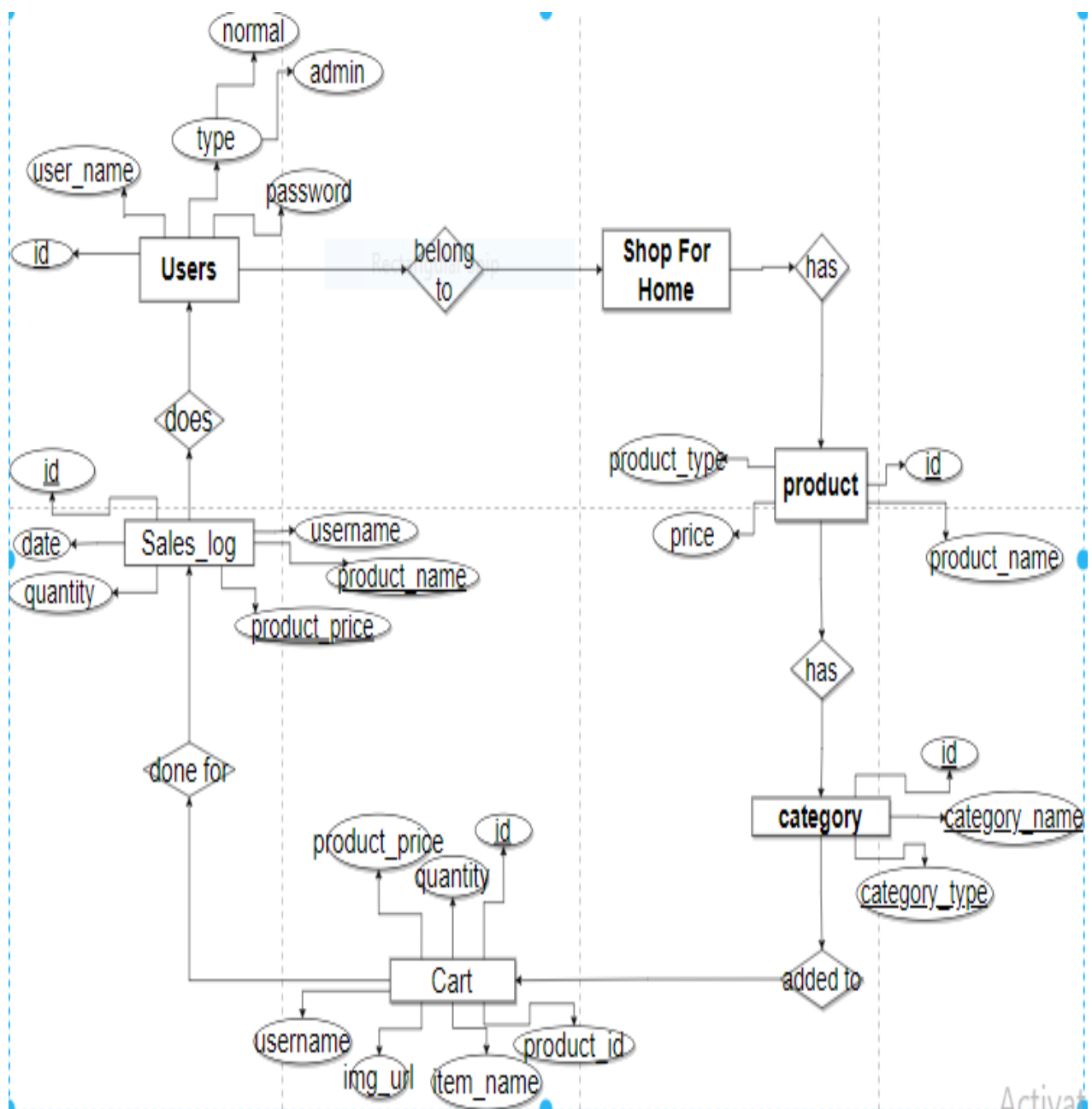
1. As an Admin I should be able to login, Logout and Register into the application.
2. As an Admin I should be able to perform CRUD on Users.
3. As an Admin I should be able to Perform CRUD on the products.
4. As an Admin I should be able to get bulk upload option to upload a csv for products details.
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 than 10.
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.

## 5. SOFTWARE USED

- I. **FrontEnd:** Angular
- II. **BackEnd:** Java-Spring-Boot
- III. **Server:** Tomcat
- IV. **DataBase:** Mysql
- V. **Cloud:** Google Cloud Platform

## 6. E-R DIAGRAM

- ER model stands for an Entity-Relationship model. It is a high-level data model. This model is used to define the data elements and relationship for a specified system.
- It develops a conceptual design for the database. It also develops a very simple and easy to design view of data.
- In ER modelling, the database structure is portrayed as a diagram called an entity-relationship diagram.



# **7.MODULES**

## **7.1 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.

## **7.2 PRODUCT DESCRIPTION MODULE**

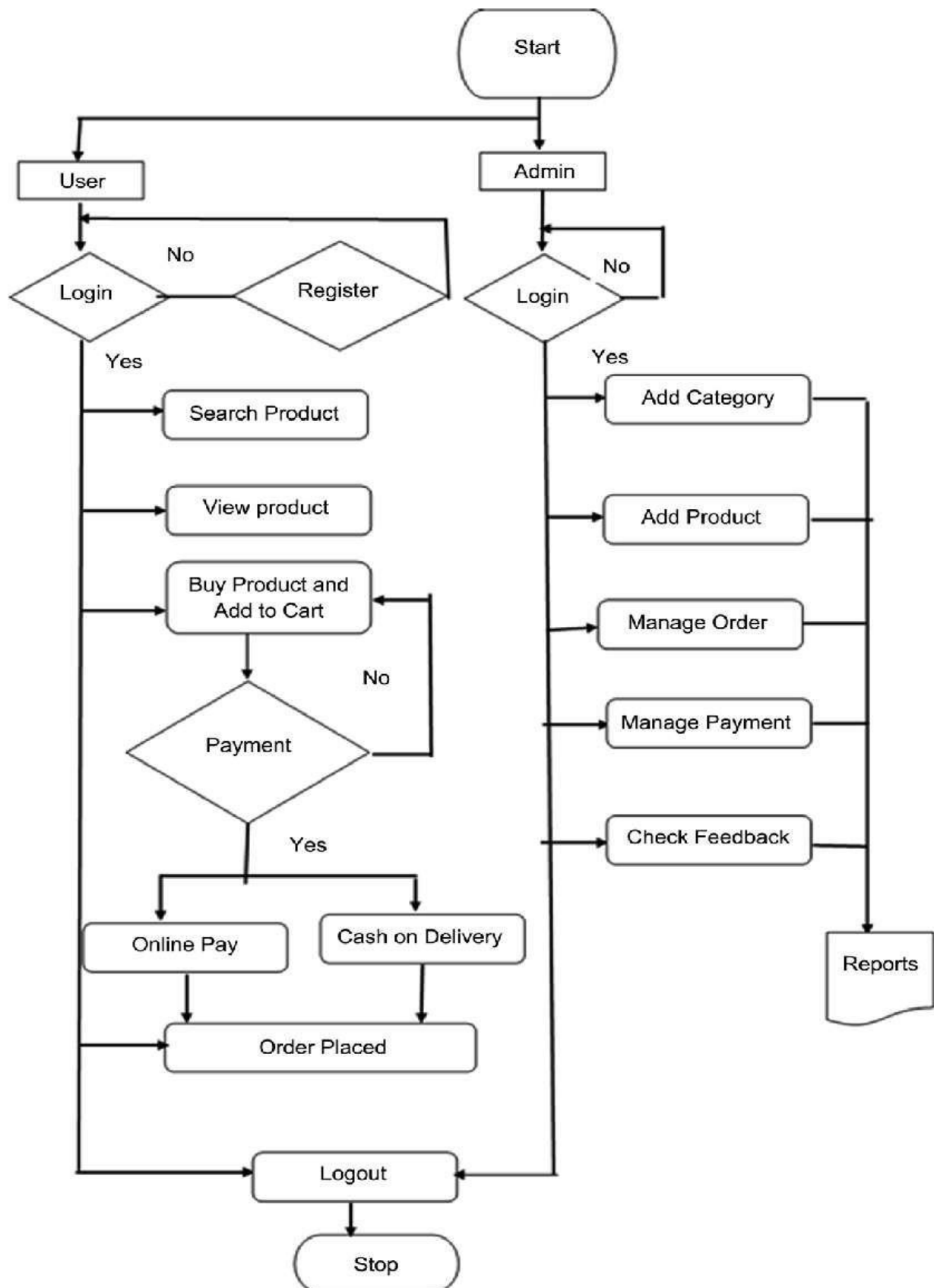
This module starts when a user visits the product description page. A user can view various images of the product of different sizes. The user can see an enlarged image in a popup window. The user can view the complete specification of the product like its features, operating system supported, system 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.

### **7.3SHOPPING 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.



# 8.FLOWCHART



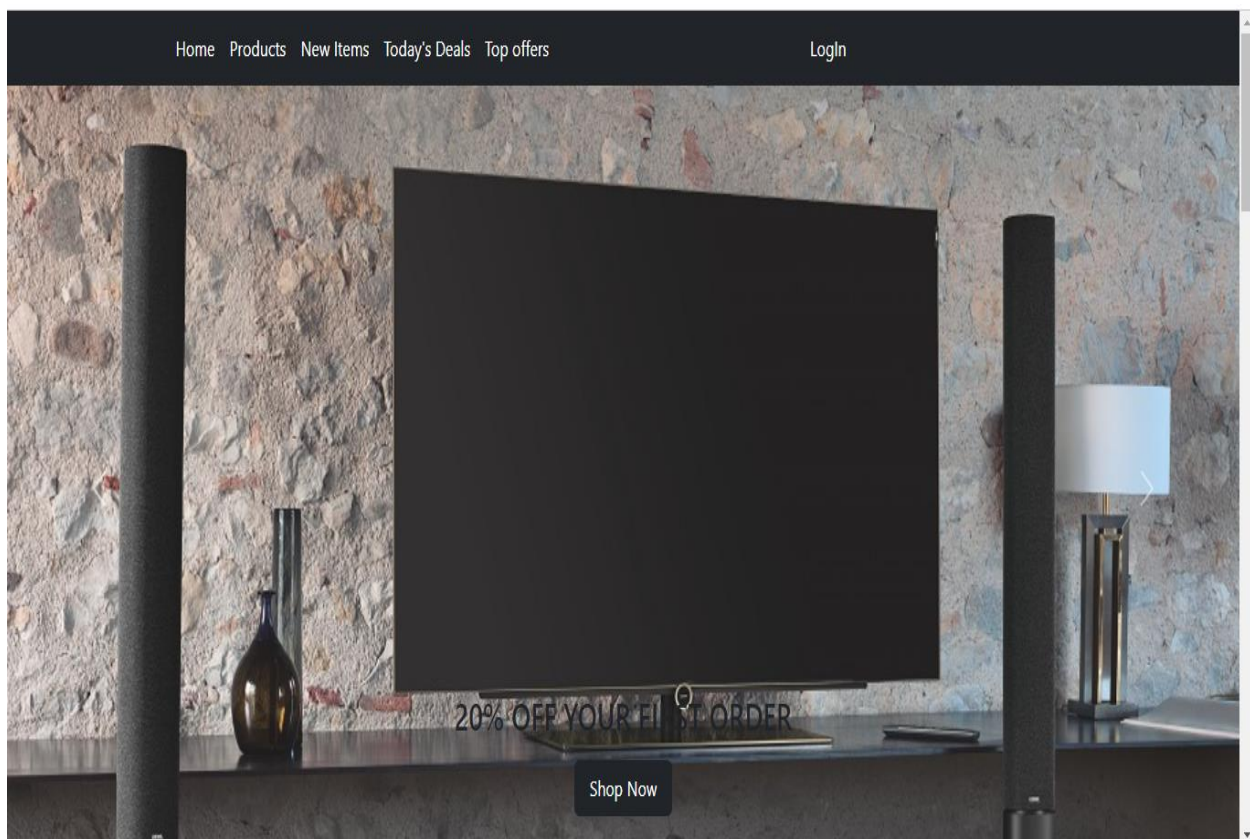
# 9.RESULTS

## I. Home Page

```
home.component.html X
src > app > home > home.component.html > div.carousel > div#carouselExampleInterval.carousel.slide > div.carousel-inner > div.carousel-item
1 <div class="carousel" style="padding-bottom: 5px">
2   <div id="carouselExampleInterval" class="carousel slide" data-bs-ride="carousel">
3     <div class="carousel-inner">
4       <div class="carousel-item active" data-bs-interval="3000">
5         
6         <div class="carousel-caption d-flex flex-column align-items-center justify-content-center">
7           <div class="p-3" style="max-width: 700px;">
8             <h4 class="text-dark text-uppercase font-weight-medium mb-3">Flat 50% Off </h4>
9             <a href="/products" class="btn btn-light py-2 px-3">Shop Now</a>
10          </div>
11        </div>
12      </div>
13    </div>
14
15    <div class="carousel-item">
16      
17      <div class="carousel-caption d-flex flex-column align-items-center justify-content-center">
18        <div class="p-3" style="max-width: 700px;">
19          <h3 class="text-dark text-uppercase font-weight-medium mb-3">20% Off Your First Order</h3>
20          <a href="/products" class="btn btn-dark py-2 px-3">Shop Now</a>
21        </div>
22      </div>
23    </div>
24  </div>
25
26  <div class="carousel-item">
27    
28    <div class="carousel-caption d-flex flex-column align-items-center justify-content-center">
29      <div class="p-3" style="max-width: 700px;">
30        <h3 class="text-dark text-uppercase font-weight-medium mb-3">20% Off Your First Order</h3>
31        <a href="/products" class="btn btn-dark py-2 px-3">Shop Now</a>
32      </div>
33    </div>
34  </div>
35</div>
```

```
home.component.html X
src > app > home > home.component.html > div.carousel > div#carouselExampleInterval.carousel.slide > div.carousel-inner > div.carousel-item
70 <div class="container">
71   <div class="featured-product product">
72     <div class="container-fluid">
73       <div class="section-header text-center">
74         <h1 id="todaysdeals">Explore products</h1>
75       </div>
76       <div class="row align-items-center ">
77         <!-- Television -->
78         <div class="col-lg-3">
79           <div class="product-item">
80             <div class="product-image">
81               <a routerLink="products">
82                 
83               </a>
84             </div>
85             <div class="product-title">
86               <a routerLink="products">Television</a>
87             </div>
88             <div class="product-price">
89               <h3><span>₹</span>18999</h3>
90             </div>
91             <a class="btn" routerLink="products"><i routerLink="products" class="fa fa-star"></i>See More</a>
92           </div>
93         </div>
94         <!-- Chair -->
95         <div class="col-lg-3">
96           <div class="product-item">
97             <div class="product-image">
98               <a routerLink="products">
99                 
100             </a>
101             <div class="product-title">
102               <a routerLink="products">Chair</a>
103             </div>
104             <div class="product-price">
105               <h3><span>₹</span>12999</h3>
106             </div>
107             <a class="btn" routerLink="products"><i routerLink="products" class="fa fa-star"></i>See More</a>
108           </div>
109         </div>
110       </div>
111     </div>
112   </div>
113 </div>
```

```
home.component.html X
src > app > home > home.component.html > div.carousel > div.container > div.featured-product.product > div.container-fluid > div.row.align-items-center > div.col-lg-3
154
155 <h2 id="newarrival">New arrivals</h2>
156 <div class="col-lg-3">
157   <div class="product-item">
158     <div class="product-image">
159       <a routerLink="products">
160         
161       </a>
162     </div>
163     <div class="product-title">
164       <a routerLink="products">Lord Ganesha Murti</a>
165     </div>
166     <div class="product-price">
167       <h3><span>₹</span>599</h3>
168       <a class="btn" routerLink="products"><i routerLink="products" class="fa fa-star"></i>See More</a>
169     </div>
170   </div>
171 </div>
172
173 <div class="col-lg-3">
174   <div class="product-item">
175     <div class="product-image">
176       <a routerLink="products">
177         
178       </a>
179     </div>
180     <div class="product-title">
181       <a routerLink="products">Diya</a>
182     </div>
183     <div class="product-price">
184       <h3><span>₹</span>599</h3>
185       <a class="btn" routerLink="products"><i routerLink="products" class="fa fa-star"></i>See More</a>
186     </div>
187   </div>
188 </div>
```



## II. Product Page

```
products.component.html X
src > app > products > products.component.html > div.container.d-flex.justify-content-center.align-items-center > menu > label.px-2
1 <!-- Filter and sort -->
2 <div class="container d-flex justify-content-center align-items-center">
3   <h4>Filters:-</h4>
4   <menu>
5     <label for="product-type" class="px-2">
6       Product type :-
7       <select name="product-type" id="product-type" class="filter">
8         <option value="0" selected>All</option>
9         <option *ngFor="let allct of allcat" value="{{ allct }}">
10           {{ allct }}
11         </option>
12       </select>
13     </label>
14     <label for="sort" class="px-2">
15       Sort by :-
16       <select name="sort" id="sort">
17         <option value="all">relevant</option>
18         <option value="HL">Price:High to Low</option>
19         <option value="LH">Price:Low to High</option>
20       </select>
21     </label>
22     <button class="btn btn-secondary btn1 ml" (click)="filtersort()">Apply</button>
23   </menu>
24   <div class="search d-flex justify-content-center">
25     <input type="text" id="input" placeholder="Search" />
26     <button class="mx-3" (click)="searched()"><i class="fa fa-search"></i></button>
27   </div>
28 </div>
29 <hr />
30
31 <!-- Alert after product added -->
32 <div style="height: 60px">
33   <div *ngIf="added" class="container-alert alert warning alert-dismissible fade show" role="alert">
```

```
products.component.html X
src > app > products > products.component.html > div.d-flex.justify-content-center.flex-wrap.col > div > div#{{ product.id }} > div.product-item.py-2.px-1 > div.prod
44 </div>
45
46 <!-- cards generate -->
47 <div class="d-flex justify-content-center flex-wrap col">
48   <div *ngFor="let product of products">
49     <div id="{{ product.id }}" onclick="">
50       <div class="product-item py-2 px-1">
51         <div class="product-title">
52           <p class="title">{{ product.product_name }}</p>
53         </div>
54         <div class="product-image">
55           <a routerLink="/products">
56             
57           </a>
58           <div class="product-action">
59             <a
60               (click)=" AddToWish( product.product_name, product.product_price, 1,product.product_price - 20,product.img_url)">
61               <i class="fa fa-heart"></i></a>
62             </div>
63           </div>
64           <div class="product-price">
65             <h3><span>₹</span>{{ product.product_price }}</h3>
66           </div>
67           <a class="btn" routerLink="/products"
68             (click)=" AddToCart(product.id,product.product_name, 1, product.product_price, 20, product.img_url) ">
69             <i class="fa fa-shopping-cart"></i>Add To Cart</a>
70           </div>
71         </div>
72       </div>
73     </div>
74   </div>
```

Filters:-

Product type :-

All

Sort by :-

relevant

Apply

Search



ADDE



₹999

Add To Cart

PELLO



₹3599

Add To Cart

RENBERGET



₹4999

Add To Cart

IKEA PS LÖMSK



₹5999

Add To Cart

### III. Login Page

```
login.component.html X
src > app > login > login.component.html > div.login-container > div.form-container > form > h2.text-center
1 <div class="login-container">
2
3 <div *ngIf="loggedIn" class="p-2 container alert alert-warning alert-dismissible fade show" role="alert">
4   <strong>{{message}}</strong>
5   <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
6 </div>
7 <div class="form-container">
8
9   <form method="post">
10     <h2 class="text-center"><strong>Login</strong></h2>
11     <div class="form-field">
12       <input class="form-control" id="username" type="text" name="Username" placeholder="Username">
13     </div>
14     <br>
15     <div class="form-field">
16       <input class="form-control" id="pwd" type="password" name="password" placeholder="Password">
17     </div>
18     <br>
19     <div class="form-field">
20       <div class="d-flex justify-content-end">
21         <div>Not a member? <a routerLink="/register" class="text-info">Register</a> </div>
22       </div><br>
23     </div>
24     <div class="form-group">
25       <button class="btn btn-success btn-block btn-info" (click)="Login()" type="submit">Login</button>
26     </div>
27
28     <br><a class="already" href="#">Terms and conditions apply*</a>
29   </form>
30   <div class="image-holder"></div>
31 </div>
32 </div>
```

[Home](#) [Products](#) [New Items](#) [Today's Deals](#) [Top offers](#) [Login](#)

## Login

Username

Password

Not a member? [Register](#)

Login

Terms and conditions apply\*

## IV. Register Page

```
register.component.html X
src > app > register > register.component.html > div.login-container
1 <div class="login-container">
2   <div *ngIf="alert_reg" class="container alert alert-success alert-dismissible fade show" role="alert">
3     <strong>{{message}}</strong>
4     <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
5   </div>
6   <div class="form-container">
7
8     <form method="post">
9       <h2 class="text-center"><strong>Welcome</strong></h2>
10      <div class="form-field"><input class="form-control" id="username" type="text" name="Username" placeholder="Username" required></div>
11      <br>
12      <div class="form-field"><input class="form-control" id="pwd" type="password" name="password" placeholder="Password" required></div>
13      <div class="form-field">
14        <div class="d-flex justify-content-center align-items-center">
15          <br>
16          <div class="form-check form-switch">
17            <input class="form-check-input" type="checkbox" role="switch" id="usertype">
18            <label class="form-check-label" for="flexSwitchCheckDefault">Register As Admin</label>
19          </div>
20        </div>
21        <div class="d-flex justify-content-end">
22          <div>Already a member? <a routerLink="/login" class="text-info">Login</a> </div>
23        </div><br>
24      </div>
25      <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 and conditions apply*</a>
26    </form>
27    <div class="image-holder"></div>
28  </div>
29 </div>
30
31
```

[Home](#) [Products](#) [New Items](#) [Today's Deals](#) [Top offers](#) [Login](#)

## Welcome

Username

Password

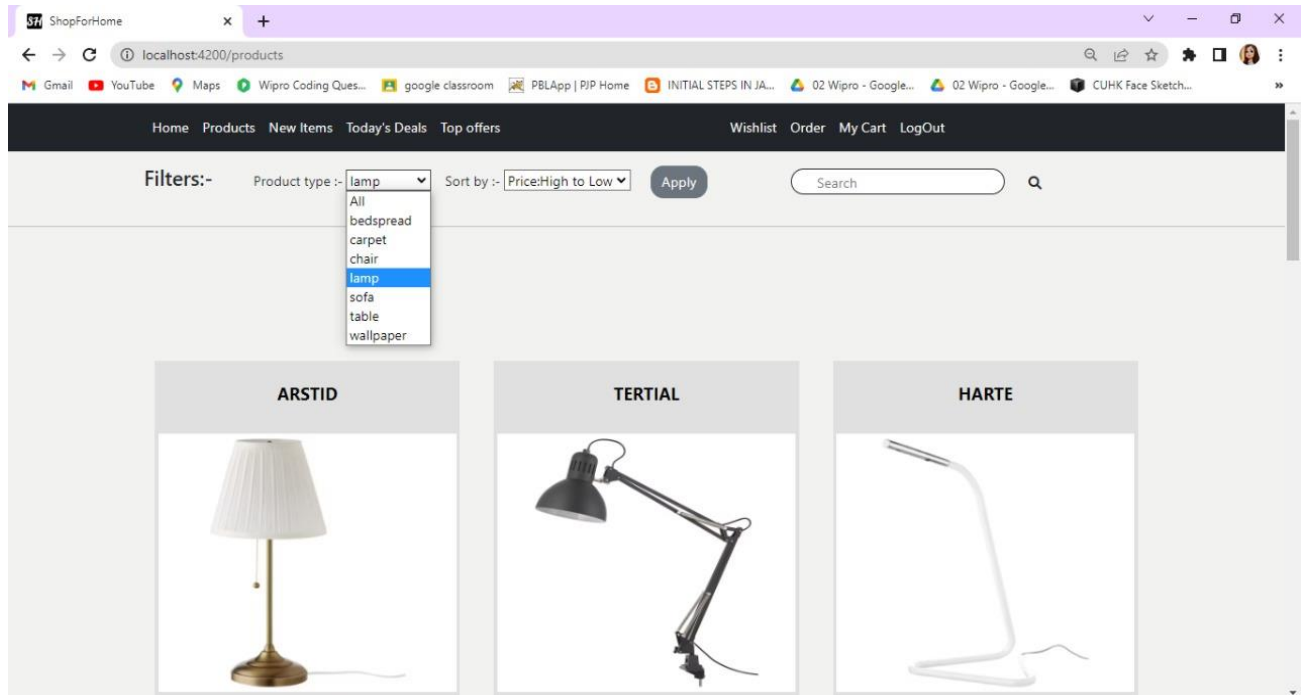
☐ Register As Admin

Already a member? [Login](#)

Register

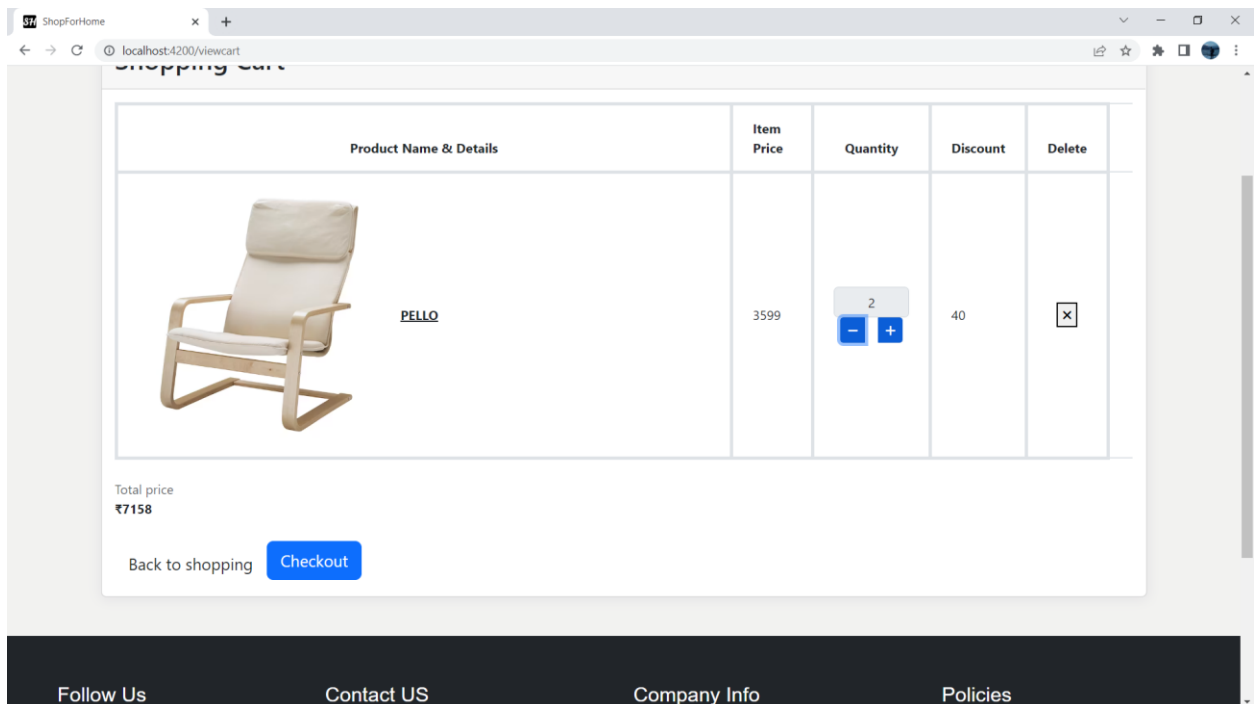
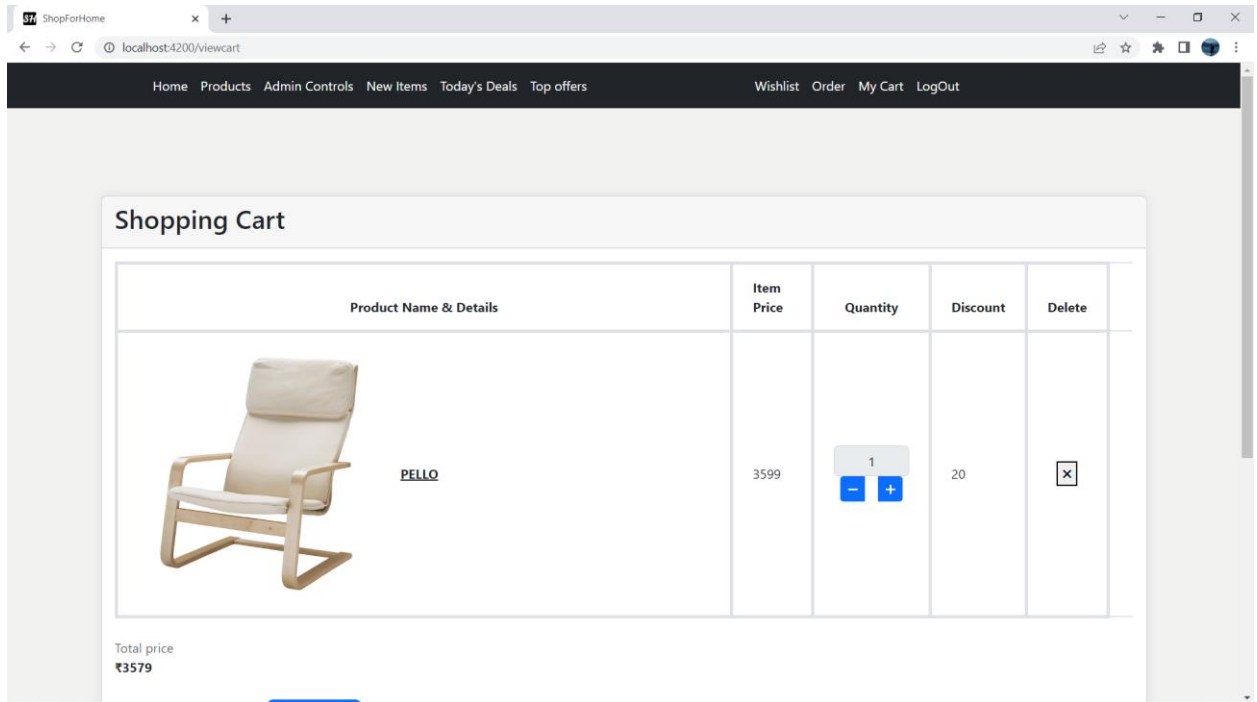
Terms and conditions apply\*

## V.Category Page

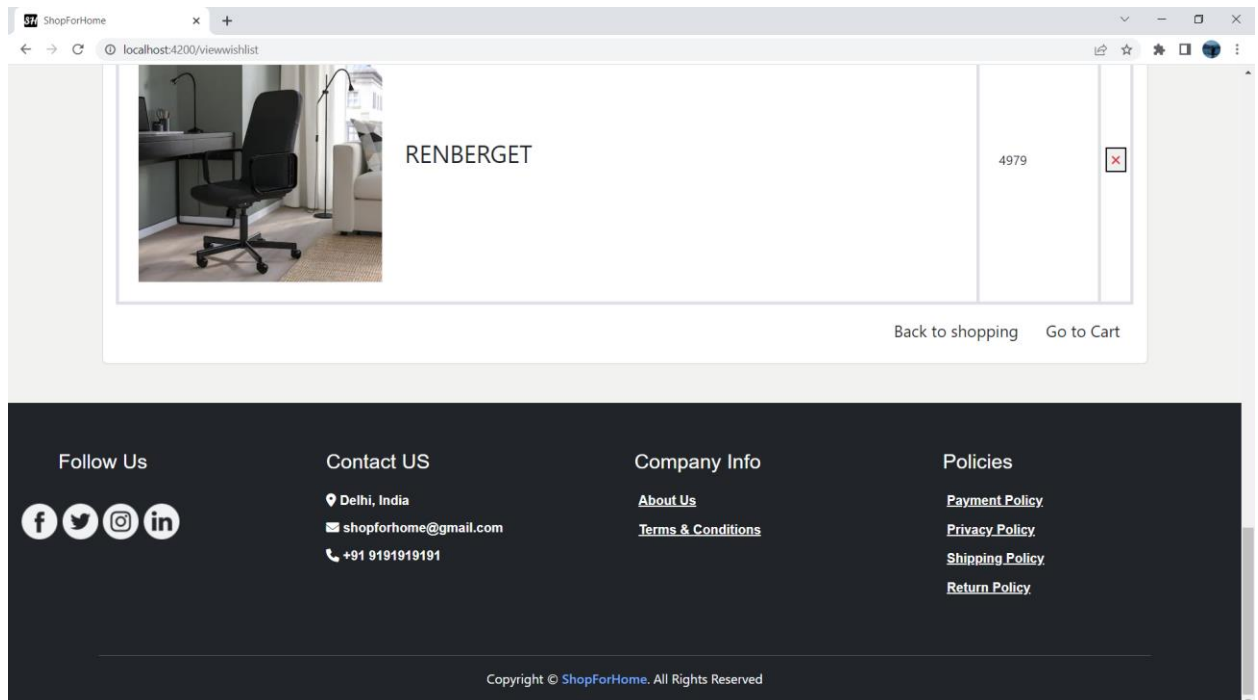
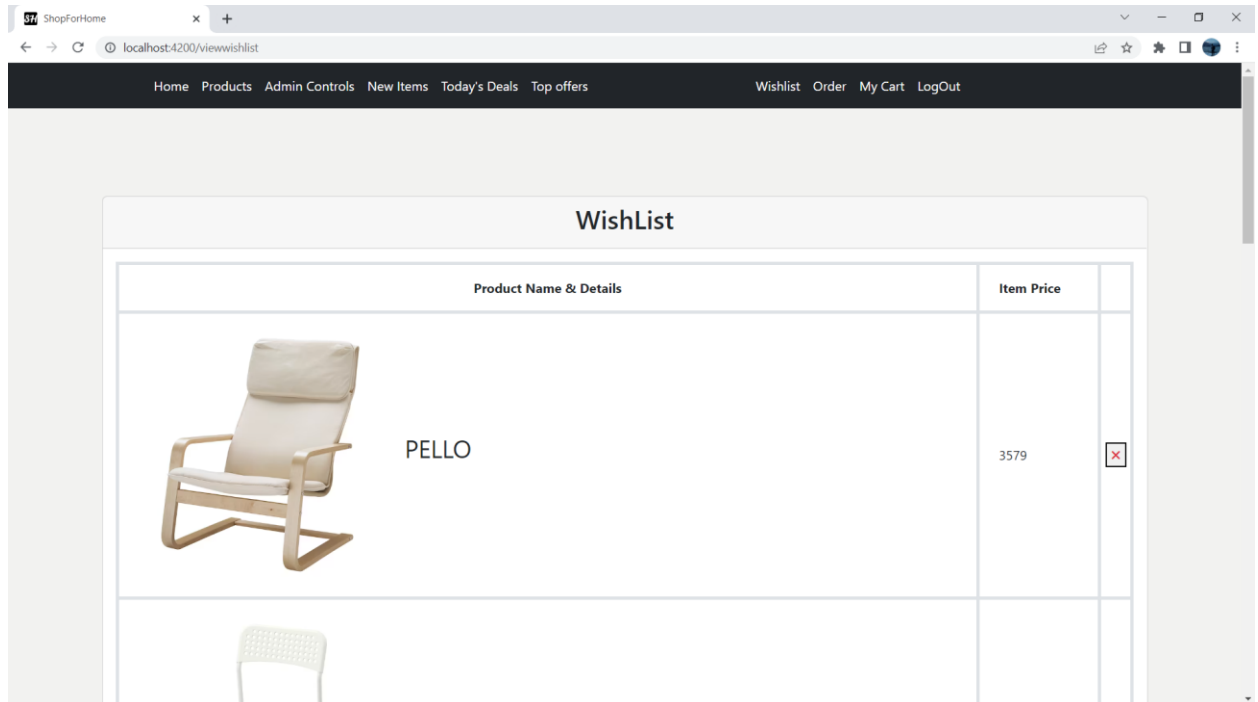




# VI.Cart



## VII.Wish List



## VIII.Orders





ShopForHome

localhost:4200/track


[Home](#) [Products](#) [Admin Controls](#) [New Items](#) [Today's Deals](#) [Top offers](#) [Wishlist](#) [Order](#) [My Cart](#) [LogOut](#)


Product name	Product Price	Product Quantity	Ordered Date	Estimated Delivery Date
PELLO	3599	1	23/7/2022-2:8:58	10 Days
ADDE	999	3	23/7/2022-2:8:58	10 Days
STEFAN	2599	6	23/7/2022-2:9:15	10 Days
SKRUVSTA	7999	2	23/7/2022-2:9:15	10 Days
STEFAN	2599	3	23/7/2022-11:4:57	10 Days
ADDE	999	4	23/7/2022-11:4:57	10 Days
IKEA PS LÖMSK	5999	1	23/7/2022-11:4:57	10 Days
ADDE	999	4	23/7/2022-11:5:51	10 Days


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[Payment Policy](#)  
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[Shipping Policy](#)  
[Return Policy](#)

## IX.Admin-Sales

ShopForHome

localhost:4200/admin

Home Products Admin Controls New Items Today's Deals Top offers Wishlist Order My Cart LogOut

Users Products Sales

Choose File No file chosen upload

Product name	Product Price	Product Quantity	Date
LAGKAPTEN	9599	2	22/7/2022-21:36:24
LANDSKRONA	44999	1	22/7/2022-21:36:24
STOENSE	7240	3	22/7/2022-21:36:24
TIPHEDE	799	4	22/7/2022-21:36:24
MELLTORP	4599	7	22/7/2022-21:36:24
VONSBÄK	4290	9	22/7/2022-21:36:24
INDIRA	1456	2	22/7/2022-21:36:53
MJUKPLISTER	1799	2	22/7/2022-21:36:53
new	399	3	22/7/2022-21:36:53
IKEA PS LÖMSK	5999	2	22/7/2022-21:47:20
ADDE	999	2	22/7/2022-21:47:20
PELLO	3599	2	22/7/2022-21:47:20
SKRUVSTA	7999	2	22/7/2022-21:47:20

## X.Admin-Products

ShopForHome

localhost:4200/admin

Home Products Admin Controls New Items Today's Deals Top offers Wishlist Order My Cart LogOut

Users Products Sales

Choose File No file chosen upload

Product name	Product ImageURL	Product type	Product price	Product description	Stocks
product name	product image URL	product type	product price	product desc	product stocks

Add

Product name	Product type	Stocks
PELLO	chair	54
RENNBERGET	chair	35
IKEA PS LÖMSK	chair	50
SKRUVSTA	chair	45
UTESPELARE	chair	45
TEODORES	chair	57
NISSE	chair	36
ODGER	chair	35
GAMMALBYN	sofa	35
FRIHETEN	sofa	50

## XI.Admin-User

ShopForHome

localhost:4200/admin





HomeProductsAdmin ControlsNew ItemsToday's DealsTop offersWishlistOrderMy CartLogOut

UsersProductsSales

Choose FileNo file chosenupload

#id	User name	Password	
20	prateek	qwerty	X
21	abc	asdf	X
22	xyzuser	pass	X
23	prateekwipro	password	X
24	ps@gmail	ps@gmail	X

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## **10.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.

# 11.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.