

# **Capstone Project**

## **ShopForHome**

**Group Name = JavaFSD\_C1**

**Group No = 12**

### **Group Members:-**

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## **Introduction:-**

Online shopping is a type of Electronic commerce which permits users to directly purchase commodities and services from seller over the internet using web browser or mobile application. The Covid-19 pandemic has accelerated the shift towards a more digital world and triggered changes in online shopping behaviors that are likely to have lasting effects. Various survey shows that consumer in emerging economies have made the greatest shift to online shopping.

Online shopping does not have space constraints and wide variety of products can be displayed on websites. It helps the analytic buyers to purchase a product after a good search. Customers can purchase items from the comfort of their own homes or workplace. Shopping is made easier and convenient for the customer through the internet. There is a wide range of products online. The seller displays all the products they have got. This enables the buyer to choose from a variety of models after comparing the finish, features and price of the products.

## **Project Description:-**

ShopForHome is web application for shopping the home decor products such as Dinning tables, Hanging lights, Dinning beauty products, Clocks etc. User can login to website by providing their email id and password. New user can register first by providing basic details like Name, Email Id, Password and then login to website. Users can search for various products in search bar and view the products in different categories. They can add products into shopping cart in multiple quantities when required and also remove it in future. They can add various products into Wishlist they are interested in but want to buy in future. Users have advantage of buying products from ShopForHome as there are various discount coupons available for them. Using discount coupons users can claim discount on products. ShopForHome is user-friendly web application which makes it easy for users to look for product information they are interested in. Users are accustomed to getting information quickly as it has quick page load time.

# **Technologies Used:-**

**1)Spring.**

**2)Spring Boot.**

**3)Spring Data Jpa.**

**4)Angular.**

**5)Bootstrap.**

**6)Java 8.**

## Software Requirements:-

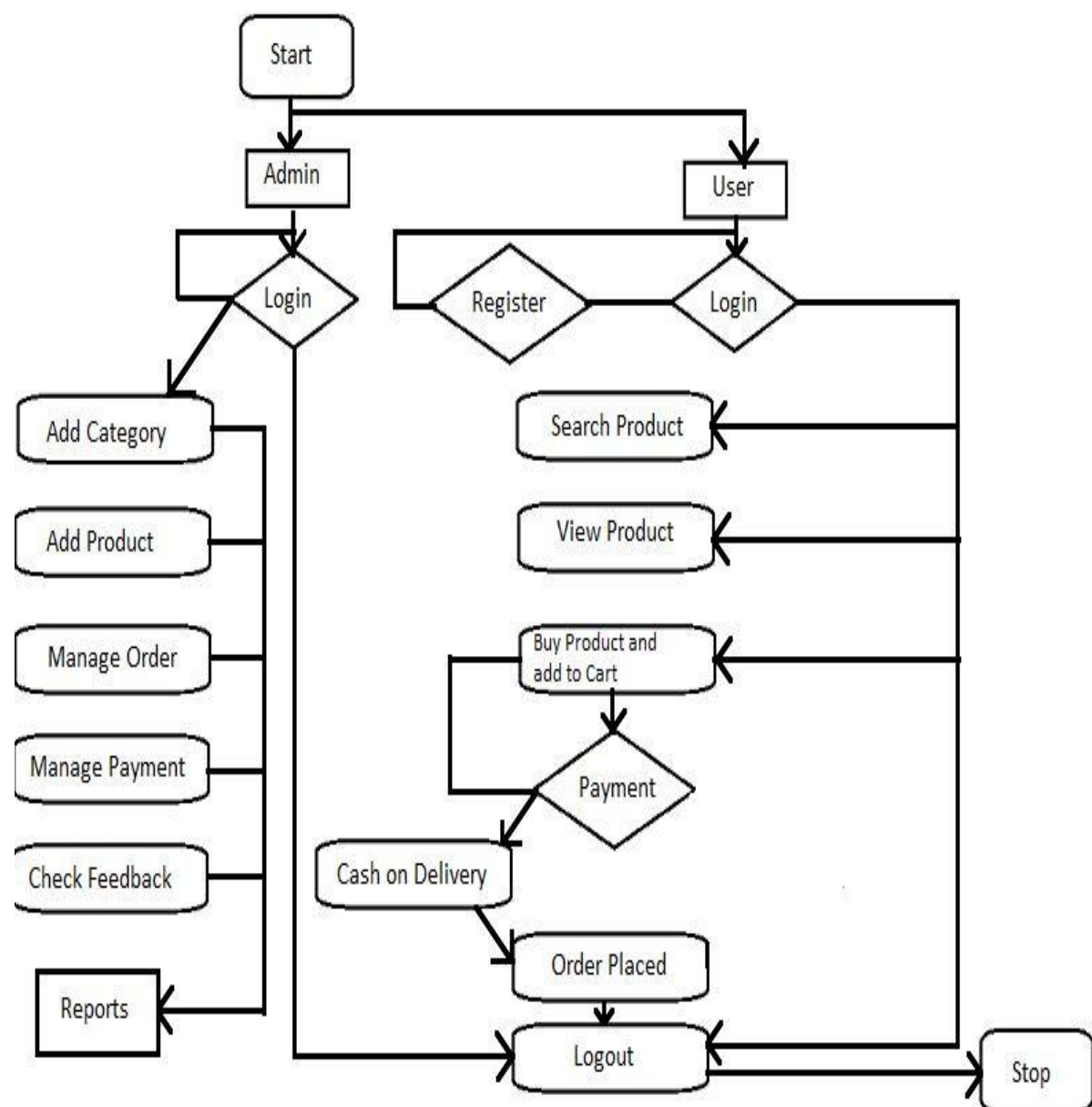
**1)Front End :- Angular.**

**2)Back End :- Java ( Spring Boot ).**

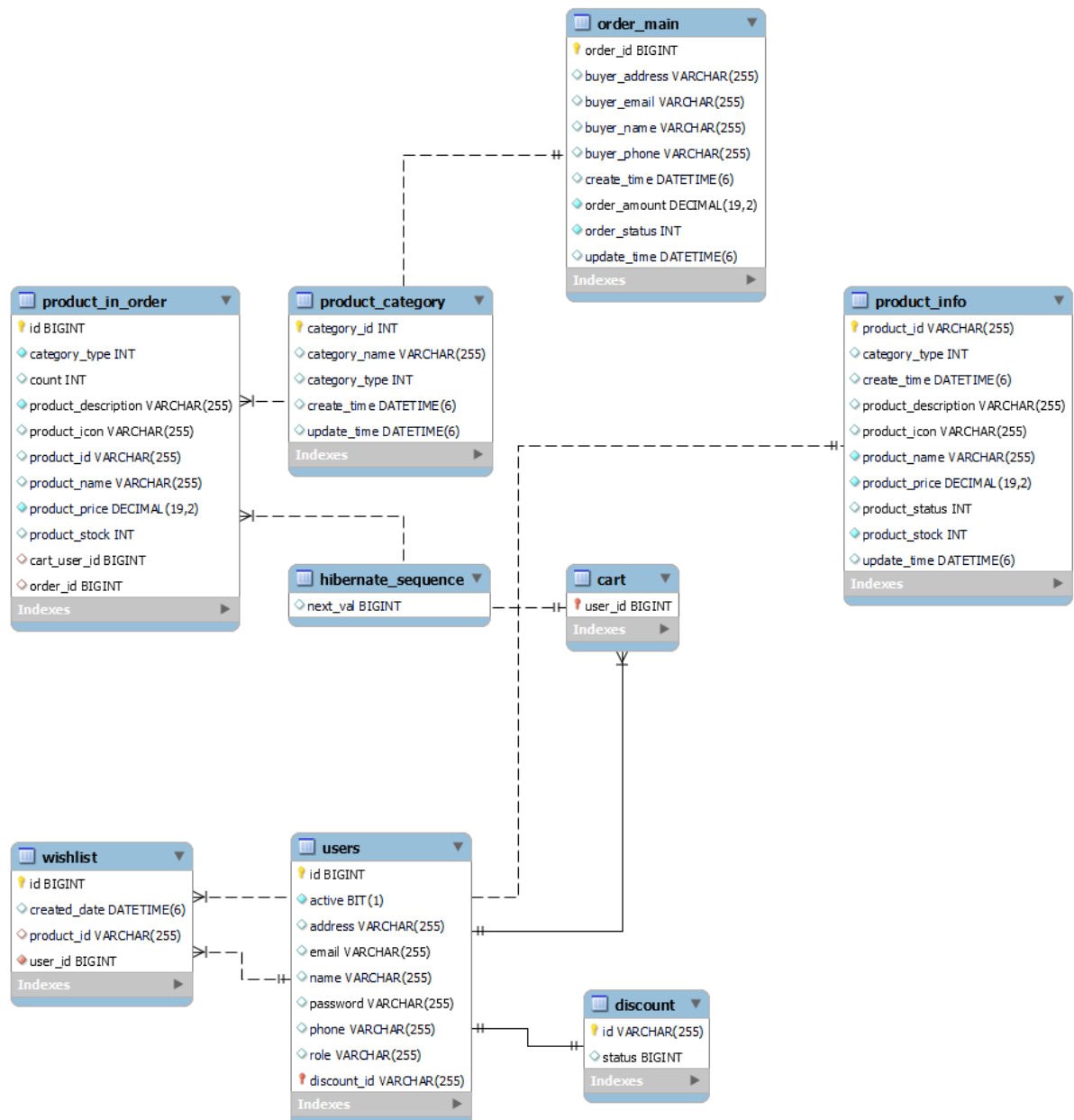
**3)Database :- MySQL.**

**4)Server :- Tomcat.**

# Flowchart:-

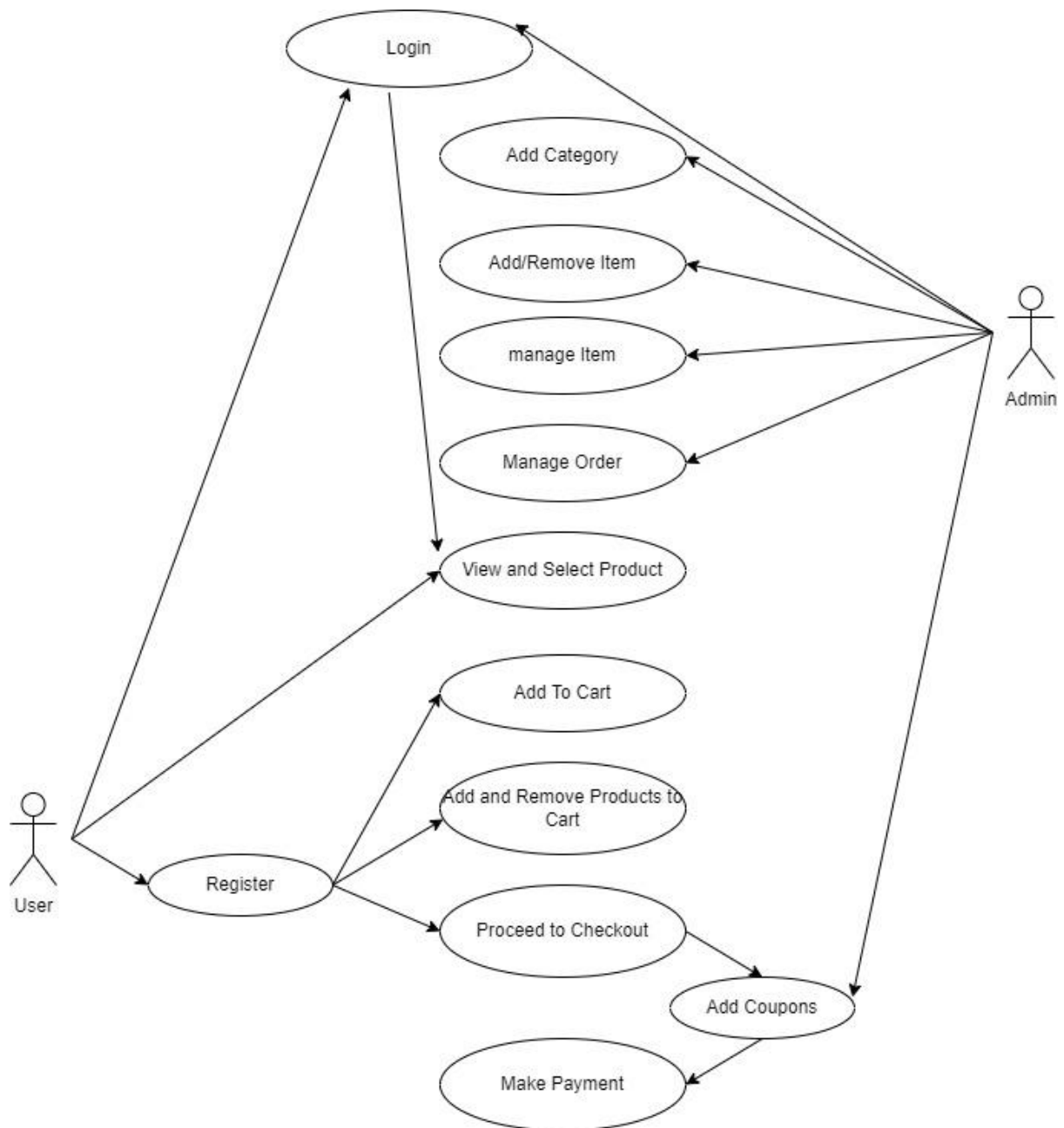


# Entity Relationship Model:-





# Use Case Diagram:-



# Project Photos:-

## 1)Home Source Code

```
1 <nav class="navbar navbar-expand-lg navbar-dark bg-primary" >
2   <a class="navbar-brand" [routerLink]="root" style="font-size:20px;font-style:italic;margin-top:5px">
3     <!-- 
9     <span class="navbar-toggler-icon"></span>
10  </button>
11  <div class="collapse navbar-collapse" id="navbarNav">
12
13    <div class="navbar-nav" *ngIf="!currentUser || currentUser.role == Role.Customer">
14
15      <a class="nav-item nav-link "
16        routerLink="/category/0" style="font-size:15px; color:■white; margin-left:20px;">
17        Hall Area
18      </a>
19      <a class="nav-item nav-link"
20        routerLink="/category/1" style="font-size:15px; color:■white; margin-left:20px;">
21        Dining Beauty
22      </a>
23      <a class="nav-item nav-link "
24        routerLink="/category/2" style="font-size:15px; color:■white; margin-left:20px;">
25        Hanging Lights
26      </a>
27      <a class="nav-item nav-link"
28        routerLink="/category/3" style="font-size:15px; color:■white; margin-left:20px;">
29        Time Zone
30      </a>
31
32
33
```

```

34     </div>
35
36
37
38     <div class="navbar-nav ml-auto">
39         <a *ngIf="!currentUser || currentUser.role == Role.Customer"
40             class="nav-item nav-link " routerLink="/cart" style="font-size:15px; color:■white; ">
41             <i class="fas fa-shopping-cart"></i>
42             Cart
43         </a>
44
45         <div class="navbar-nav" *ngIf="currentUser && currentUser.role == Role.Manager">
46
47             <a class="nav-item nav-link" routerLink="/discount" style="font-size:15px; color:■white;
48             <a class="nav-item nav-link" (click)=getUsers() routerLink="/admin/user" style="font-size:15
49             <a class="nav-item nav-link" routerLink="/seller/product" style="font-size:15px; color:white
50         </div>
51
52         <div class="navbar-nav" *ngIf="currentUser && currentUser.role == Role.Customer">
53             <a class="nav-item nav-link" routerLink="/wishlist" style="font-size:15px; color:white; ">
54         </div>
55
56         <ng-container *ngIf="currentUser; else noUser">
57
58             <!-- <a class="nav-item nav-link" routerLink="/discount">Discount</a>
59             <a class="nav-item nav-link" (click)=getUsers() routerLink="/admin/user">Users</a>
60             <a class="nav-item nav-link" routerLink="/seller/product">Stocks</a> -->
61             <a class="nav-item nav-link " routerLink="/order" style="font-size:15px; color:■white; mar
62             <i class="fas fa-list-ul"></i>
63             Orders
64         </a>

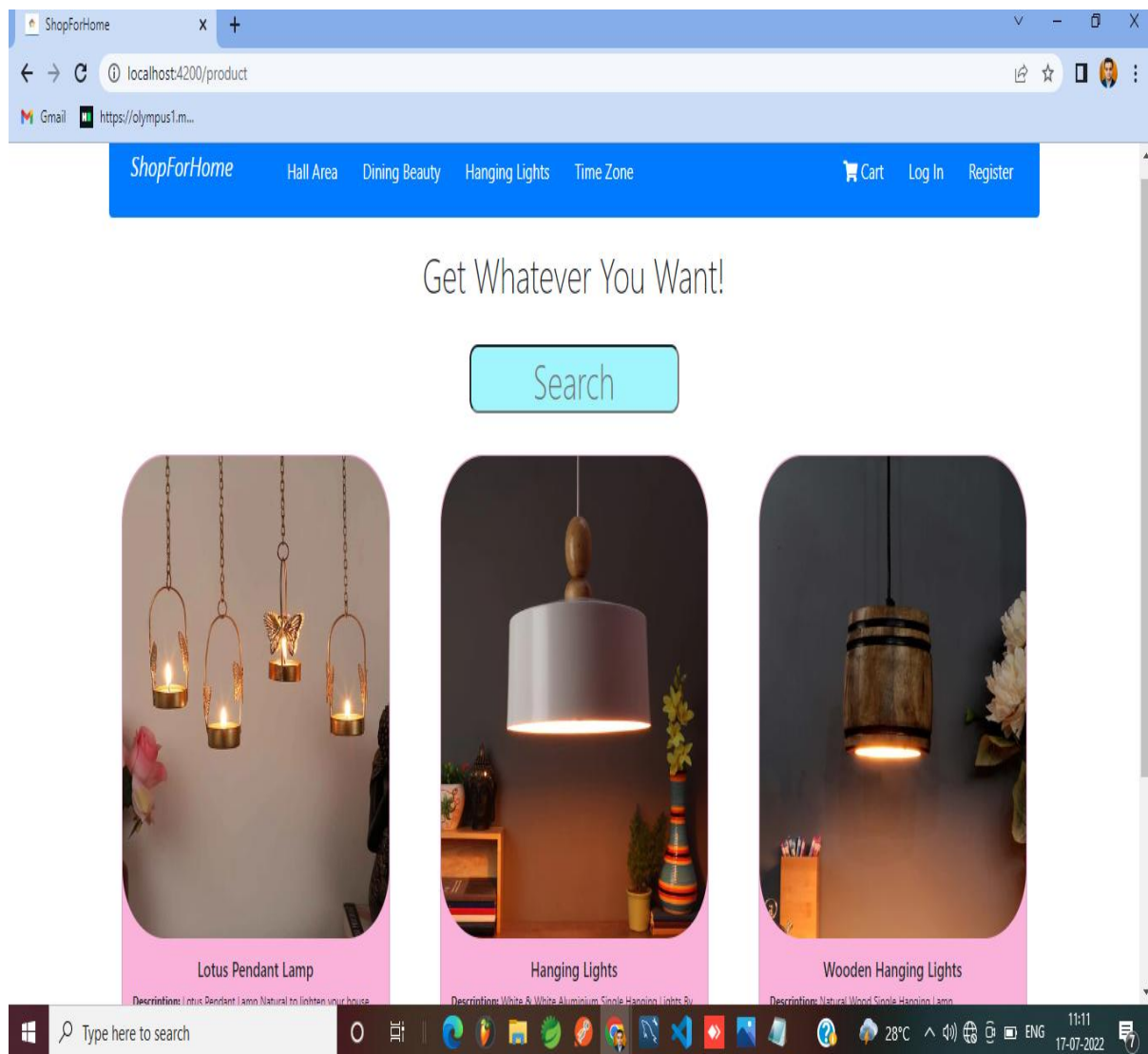
```

```

59         <a class="nav-item nav-link" (click)=getUsers() routerLink="/admin/user">Users</a>
60         <a class="nav-item nav-link" routerLink="/seller/product">Stocks</a> -->
61         <a class="nav-item nav-link " routerLink="/order" style="font-size:15px; color:■white; mar
62         <i class="fas fa-list-ul"></i>
63         Orders
64     </a>
65     <a class="nav-item nav-link " routerLink="/profile" style="font-size:15px; color:■white; r
66     {{name}}
67 </a>
68     <a class="nav-item nav-link " (click)="logout()" routerLink="/login" [queryParams]="{logout
69     Log Out
70 </a>
71 </ng-container>
72 <ng-template #noUser>
73     <a class="nav-item nav-link " routerLink="/login" style="font-size:15px; color:white; margin
74     Log In
75 </a>
76     <a class="nav-item nav-link " routerLink="/register" style="font-size:15px; color:white; margin
77     Register
78 </a>
79 </ng-template>
80
81 </div>
82 </div>
83 </nav>
84

```

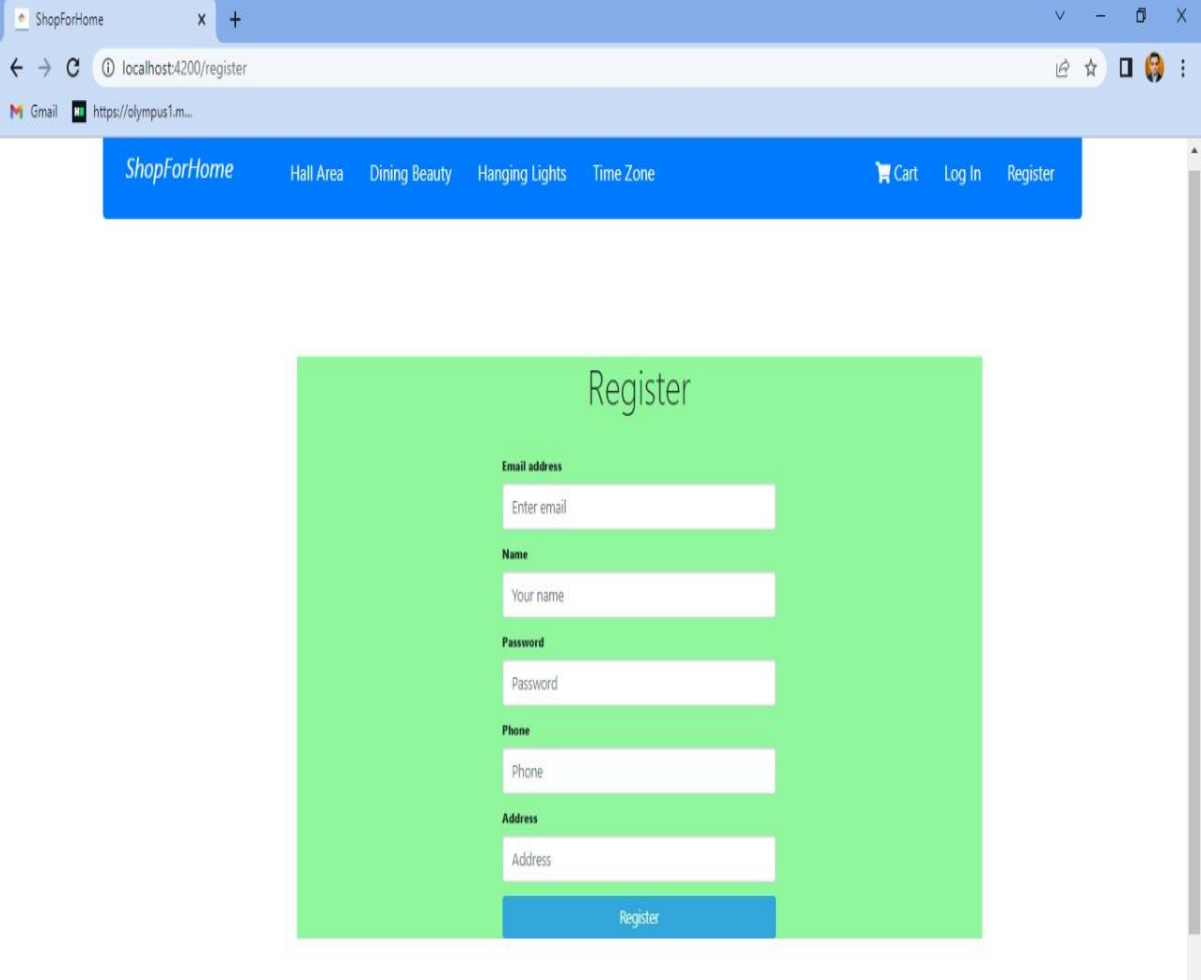
# Output:-



## 2)Register Source Code:-

```
1 <div class="img">
2 <h1 align="center" class="display-4 mb-5">Register</h1>
3 <div style="width:40%; margin: 25px auto" >
4   <form #form="ngForm" (ngSubmit)="onSubmit()">
5     <div class="form-group">
6       <label><b>Email address</b></label>
7       <input [(ngModel)]="user.email" type="email" class="form-control form-control-lg" id="email" name="email">
8       <div *ngIf="email.invalid && (email.dirty ||email.touched)" >
9         <div *ngIf="email.errors.required" >
10           Email is required.
11         </div>
12         <div *ngIf="email.errors.email">
13           Invalid Email.
14         </div>
15       </div>
16     </div>
17     <div class="form-group">
18       <label><b>Name</b></label>
19       <input [(ngModel)]="user.name" type="text" class="form-control form-control-lg" id="name" name="name">
20       <div *ngIf="name.invalid && (name.dirty ||name.touched)">
21         <div *ngIf="name.errors.required">
22           Name is required.
23         </div>
24         <div *ngIf="name.errors.minlength">
25           Name must be at least 3 characters long.
26         </div>
27       </div>
28     </div>
29     <div class="form-group">
30       <label><b>Password</b></label>
31       <input [(ngModel)]="user.password" type="password" class="form-control form-control-lg" id="password" name="password">
32       <div *ngIf="password.invalid && (password.dirty ||password.touched)">
33         <div *ngIf="password.errors.required">
34           Password is required.
35         </div>
36         <div *ngIf="password.errors.minlength">
37           Password must be at least 3 characters long.
38         </div>
39       </div>
40     </div>
41     <div class="form-group">
42       <label><b>Phone</b></label>
43       <input [(ngModel)]="user.phone" type="text" class="form-control form-control-lg" id="phone" name="phone">
44       <div *ngIf="phone.invalid && (phone.dirty ||phone.touched)">
45         <div *ngIf="phone.errors.required">
46           Phone is required.
47         </div>
48       </div>
49     </div>
50     <div class="form-group">
51       <label><b>Address</b></label>
52       <input [(ngModel)]="user.address" type="text" class="form-control form-control-lg" id="address" name="address">
53       <div *ngIf="address.invalid && (address.dirty ||address.touched)">
54         <div *ngIf="address.errors.required">
55           Address is required.
56         </div>
57       </div>
58     </div>
59     <div class="form-group">
60       <button type="submit" class="btn btn-lg btn-primary btn-block" [disabled]="!form.form.valid" >Register
61     </div>
62   </form>
63 </div>
64 </div>
```

# Output:-



The screenshot shows a web browser window with the title "ShopForHome". The address bar displays "localhost:4200/register". The browser's address bar also shows "Gmail" and "https://olympus1.m...". The page features a blue navigation bar with the "ShopForHome" logo and links for "Hall Area", "Dining Beauty", "Hanging Lights", and "Time Zone". On the right side of the navigation bar are links for "Cart", "Log In", and "Register". The main content area has a light green background and is titled "Register". It contains a registration form with the following fields: "Email address" (with placeholder text "Enter email"), "Name" (with placeholder text "Your name"), "Password" (with placeholder text "Password"), "Phone" (with placeholder text "Phone"), and "Address" (with placeholder text "Address"). A blue "Register" button is located at the bottom of the form.

ShopForHome

Hall Area Dining Beauty Hanging Lights Time Zone

Cart Log In Register

## Register

**Email address**

Enter email

**Name**

Your name

**Password**

Password

**Phone**

Phone

**Address**

Address

Register

### 3)Login Source Code:-

```
1 <div class="img" |>
2 <h1 align="center" class="display-4 mb-5">Login</h1>
3 <div style="width:40%; margin: 25px auto">
4
5     <div class="alert alert-danger" *ngIf="isInvalid">
6         Invalid username and password.
7     </div>
8     <div class="alert alert-info" *ngIf="isLogout">
9         You have been logged out.
10    </div>
11
12
13    <form #form='ngForm' (ngSubmit)="onSubmit()">
14        <div class="form-group">
15            <label>Email address</label>
16            <input type="text" class="form-control form-control-lg" id="email" name="email" placeholder="Email address"
17                required autofocus [(ngModel)]="model.username" #email="ngModel" autocomplete="email" >
18            <div [hidden]="email.valid || email.pristine" class="alert alert-danger">
19                Email is required
20            </div>
21        </div>
22
23        <div class="form-group">
24            <label>Password</label>
25            <input type="password" class="form-control form-control-lg" id="password" name="password"
26                placeholder="Password" required [(ngModel)]="model.password" #password='ngModel' >
27            <div [hidden]="password.valid || password.pristine" class="alert alert-danger">
28                Password is required
29            </div>
30        </div>
31
32        <div class="form-group">
33            <div>
34                <input type="checkbox" id="remember_me" name="remember-me" [(ngModel)]="model.remembered">
35                <label for="remember_me" class="inline">Remember me</label>
36                <a class="float-right" routerLink="/register">Register</a>
37            </div>
38        </div>
39
40        <div class="form-group">
41            <button [disabled]="!form.form.valid" type="submit" class="btn btn-lg btn-primary btn-block">Login</button>
42        </div>
43    </form>
44
45
46
47
48 </div>
49 </div>
```

# Output:-



Login

Email address

Enter email

Password

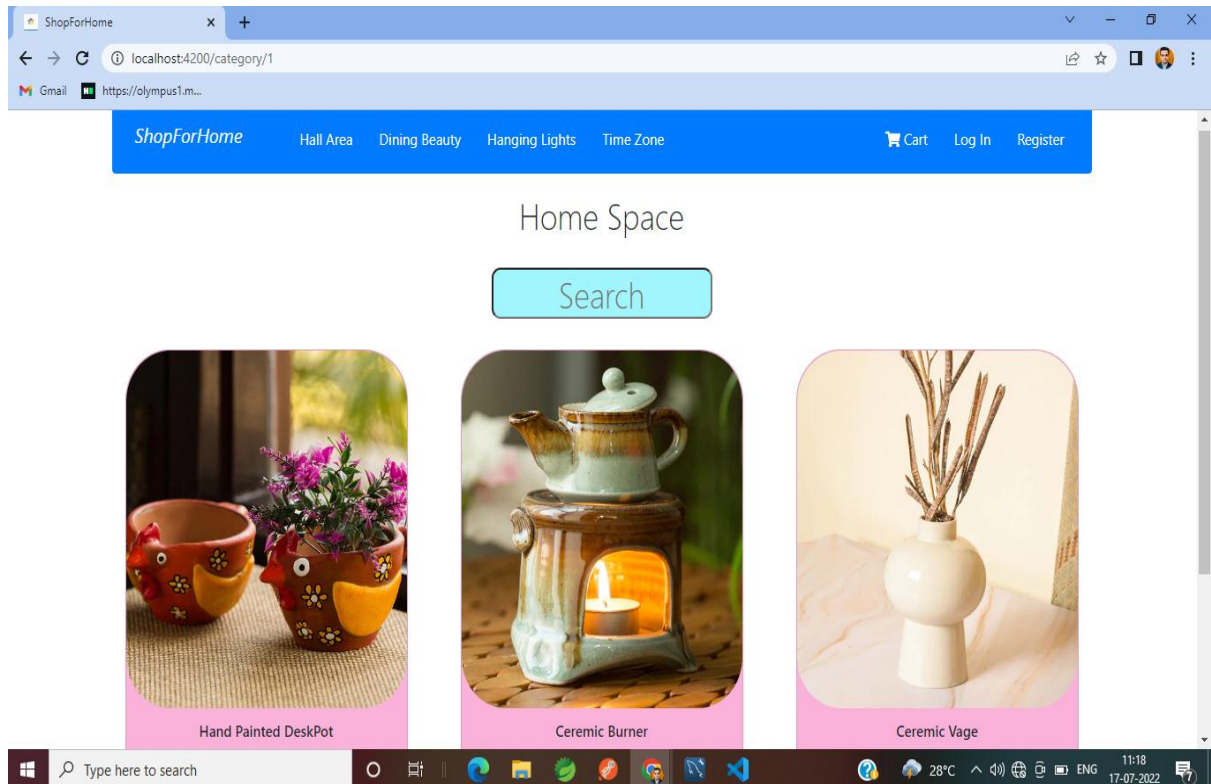
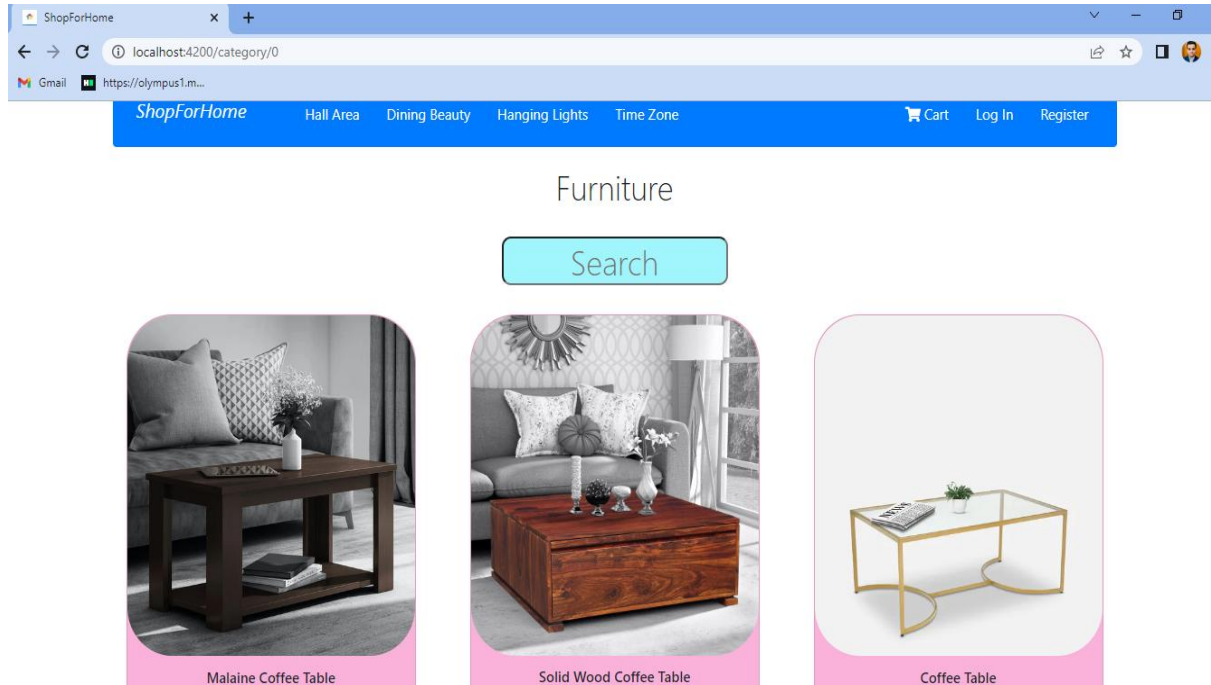
Password

☐ Remember me [Register](#)

Login In



## 4)Product Categories:-




ShopForHome

localhost:4200/category/2


ShopForHome Hall Area Dining Beauty Hanging Lights Time Zone Cart Log In Register

## LightsAndLamps


Search



**Lotus Pendant Lamp**  
Description: Lotus Pendant Lamp Natural to lighten your house



**Hanging Lights**  
Description: White & White Aluminium Single Hanging Lights By



**Wooden Hanging Lights**  
Description: Natural Wood Single Hanging Lamp

Type here to search

28°C 11:19 17-07-2022


ShopForHome

localhost:4200/category/3


ShopForHome Hall Area Dining Beauty Hanging Lights Time Zone Cart Log In Register

## Wall Decor


Search



**Table Clock**  
Description: Metal Cycle Table Clock by capeTree



**Analog Clock**  
Description: Golden Metal Analog Round Colorful Clock

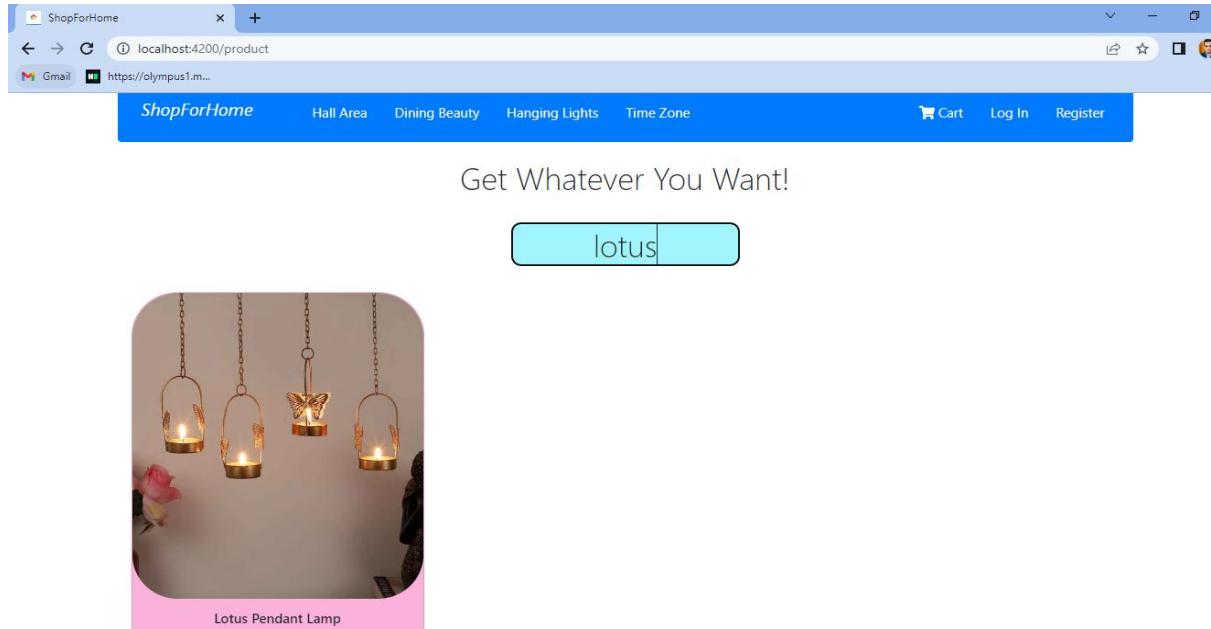


**Wall Art**  
Description: Iron Leaf Panel Wall Art in Gold

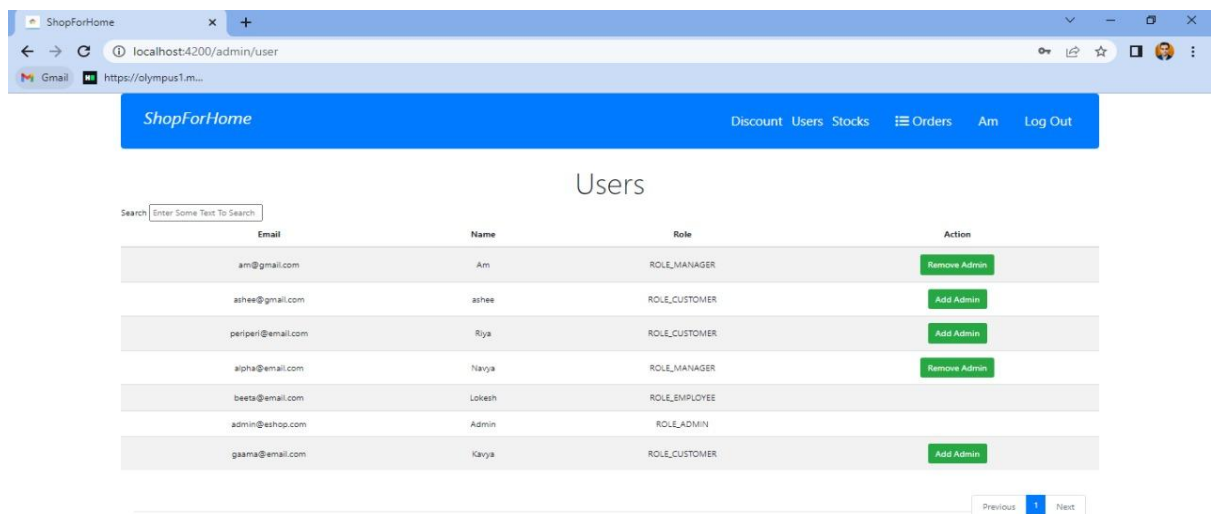
Type here to search

28°C 11:20 17-07-2022

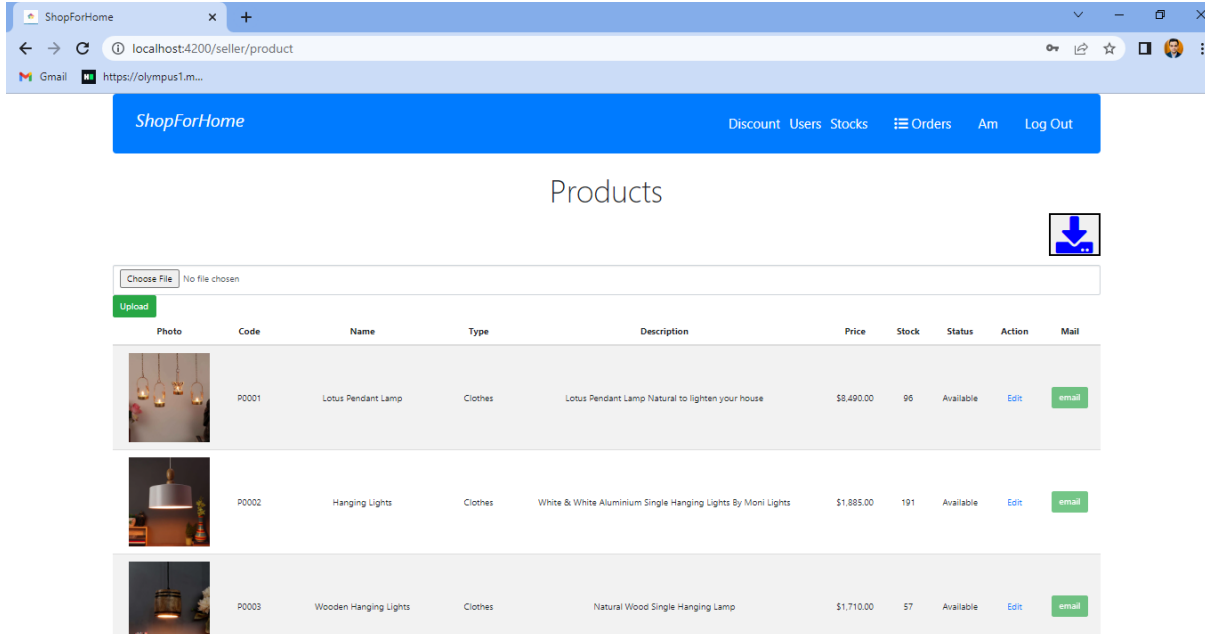
## 5)Search Products:-






## 6)Users:-



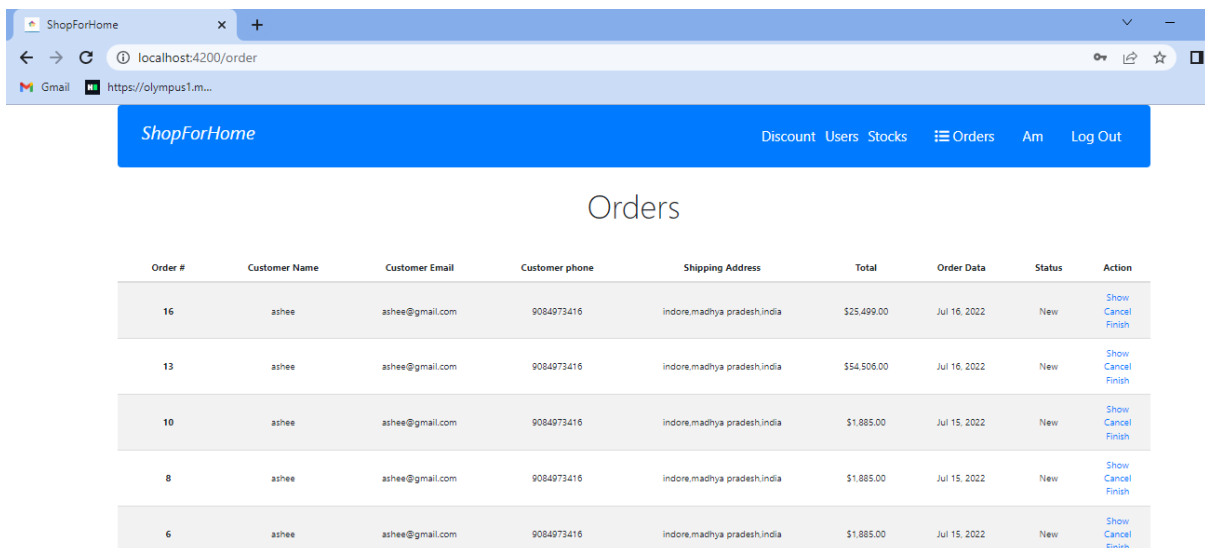
## 7)Products:-



The screenshot shows the 'Products' page of the ShopForHome application. The page has a blue header with the ShopForHome logo and navigation links: Discount, Users, Stocks, Orders, Am, and Log Out. Below the header, the word 'Products' is centered. To the right of the title is a download icon. Below the title is a file upload section with a 'Choose File' button and an 'Upload' button. Below this is a table listing products.

| Photo  | Code  | Name                  | Type    | Description  | Price      | Stock | Status    | Action               | Mail                  |
|--|-------|-----------------------|---------|--|------------|-------|-----------|----------------------|-----------------------|
|   | P0001 | Lotus Pendant Lamp    | Clothes | Lotus Pendant Lamp Natural to lighten your house             | \$8,490.00 | 96    | Available | <a href="#">Edit</a> | <a href="#">email</a> |
|   | P0002 | Hanging Lights        | Clothes | White & White Aluminium Single Hanging Lights By Moni Lights | \$1,885.00 | 191   | Available | <a href="#">Edit</a> | <a href="#">email</a> |
|  | P0003 | Wooden Hanging Lights | Clothes | Natural Wood Single Hanging Lamp                             | \$1,710.00 | 57    | Available | <a href="#">Edit</a> | <a href="#">email</a> |

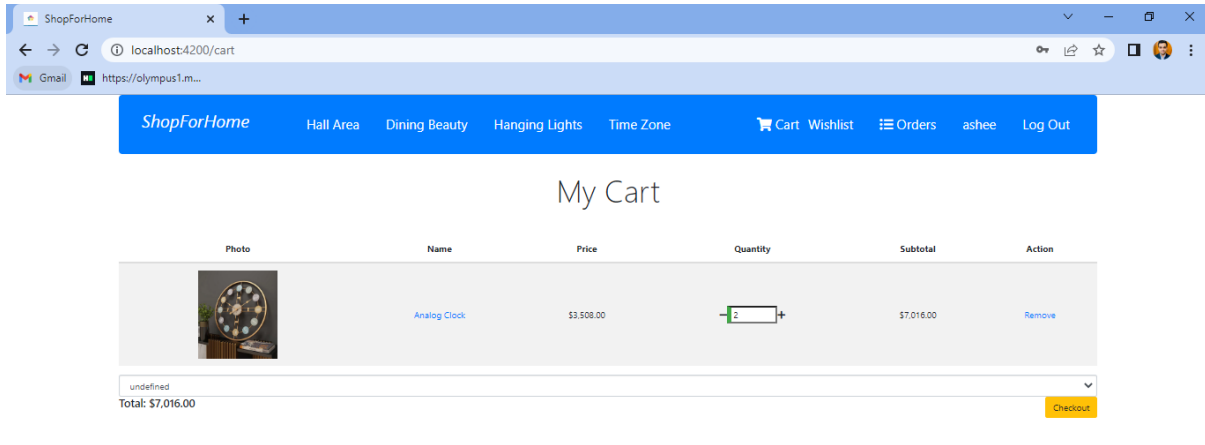
## 8)Orders:-



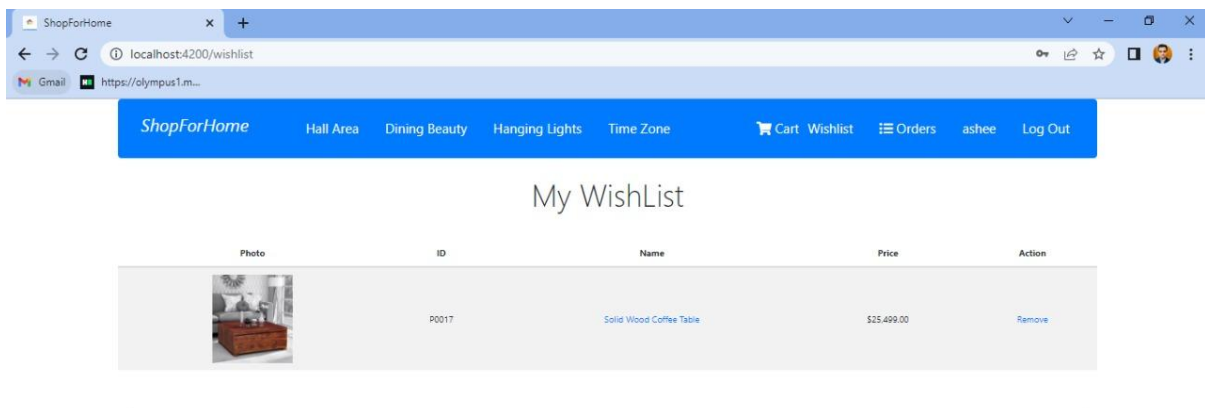
The screenshot shows the 'Orders' page of the ShopForHome application. The page has a blue header with the ShopForHome logo and navigation links: Discount, Users, Stocks, Orders, Am, and Log Out. Below the header, the word 'Orders' is centered. Below the title is a table listing orders.

| Order # | Customer Name | Customer Email  | Customer phone | Shipping Address            | Total       | Order Date   | Status | Action   |
|---------|---------------|-----------------|----------------|-----------------------------|-------------|--------------|--------|--|
| 16      | ashee         | ashee@gmail.com | 9084973416     | indore,madhya pradesh,india | \$25,499.00 | Jul 16, 2022 | New    | <a href="#">Show</a><br><a href="#">Cancel</a><br><a href="#">Finish</a> |
| 13      | ashee         | ashee@gmail.com | 9084973416     | indore,madhya pradesh,india | \$54,506.00 | Jul 16, 2022 | New    | <a href="#">Show</a><br><a href="#">Cancel</a><br><a href="#">Finish</a> |
| 10      | ashee         | ashee@gmail.com | 9084973416     | indore,madhya pradesh,india | \$1,885.00  | Jul 15, 2022 | New    | <a href="#">Show</a><br><a href="#">Cancel</a><br><a href="#">Finish</a> |
| 8       | ashee         | ashee@gmail.com | 9084973416     | indore,madhya pradesh,india | \$1,885.00  | Jul 15, 2022 | New    | <a href="#">Show</a><br><a href="#">Cancel</a><br><a href="#">Finish</a> |
| 6       | ashee         | ashee@gmail.com | 9084973416     | indore,madhya pradesh,india | \$1,885.00  | Jul 15, 2022 | New    | <a href="#">Show</a><br><a href="#">Cancel</a><br><a href="#">Finish</a> |

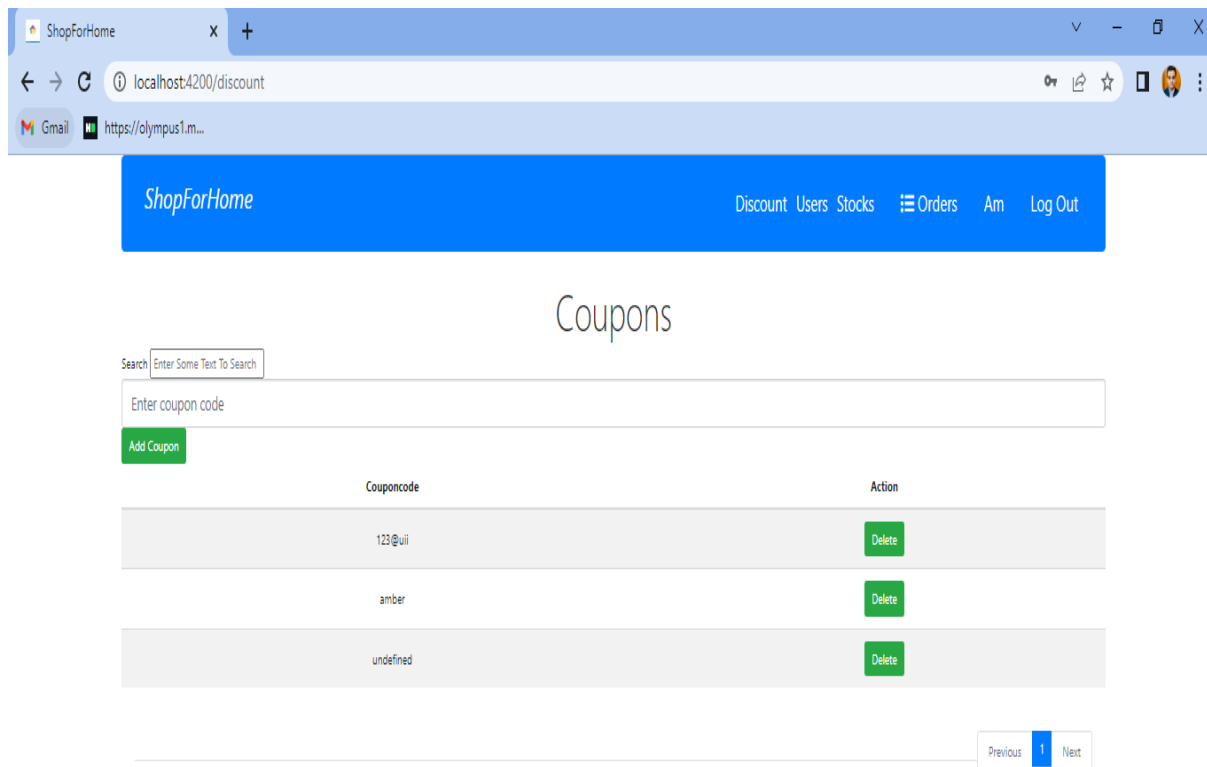
## 9)Cart:-



## 10)Wishlist:-



## 11)Discount Coupons:-



The screenshot displays a web application interface for managing discount coupons. The browser's address bar shows the URL `localhost:4200/discount`. The application's header is blue and contains the logo *ShopForHome* and navigation links: Discount, Users, Stocks, Orders, Am, and Log Out.

The main content area is titled "Coupons". It features a search bar with the placeholder text "Enter Some Text To Search" and a form to add a new coupon. The form includes a text input labeled "Enter coupon code" and a green "Add Coupon" button.

Below the form is a table listing existing coupons. The table has two columns: "Couponcode" and "Action".

| Couponcode | Action                  |
|------------|-------------------------|
| 123@uii    | <button>Delete</button> |
| amber      | <button>Delete</button> |
| undefined  | <button>Delete</button> |

At the bottom right of the page, there is a pagination control with the text "Previous", "1", and "Next".

## **Conclusion:-**

ShopForHome is user-friendly web application designed in a way which would make searching, viewing and selection of product easier. The search engine provides an easy and convenient way to search for products where users can search for products interactively and the search engine would refine the products available based on the user's input. Users can also add products to Cart and Wishlist.

## **Future Scope:-**

1)Users could subscribe for receiving notification about best offers and deals prior to other users.

2)Users will receive product information from packaging to delivery.

3)Various product categories like Mobile & Electronics, Groceries, Health & Personal Care will be added to system.