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:-

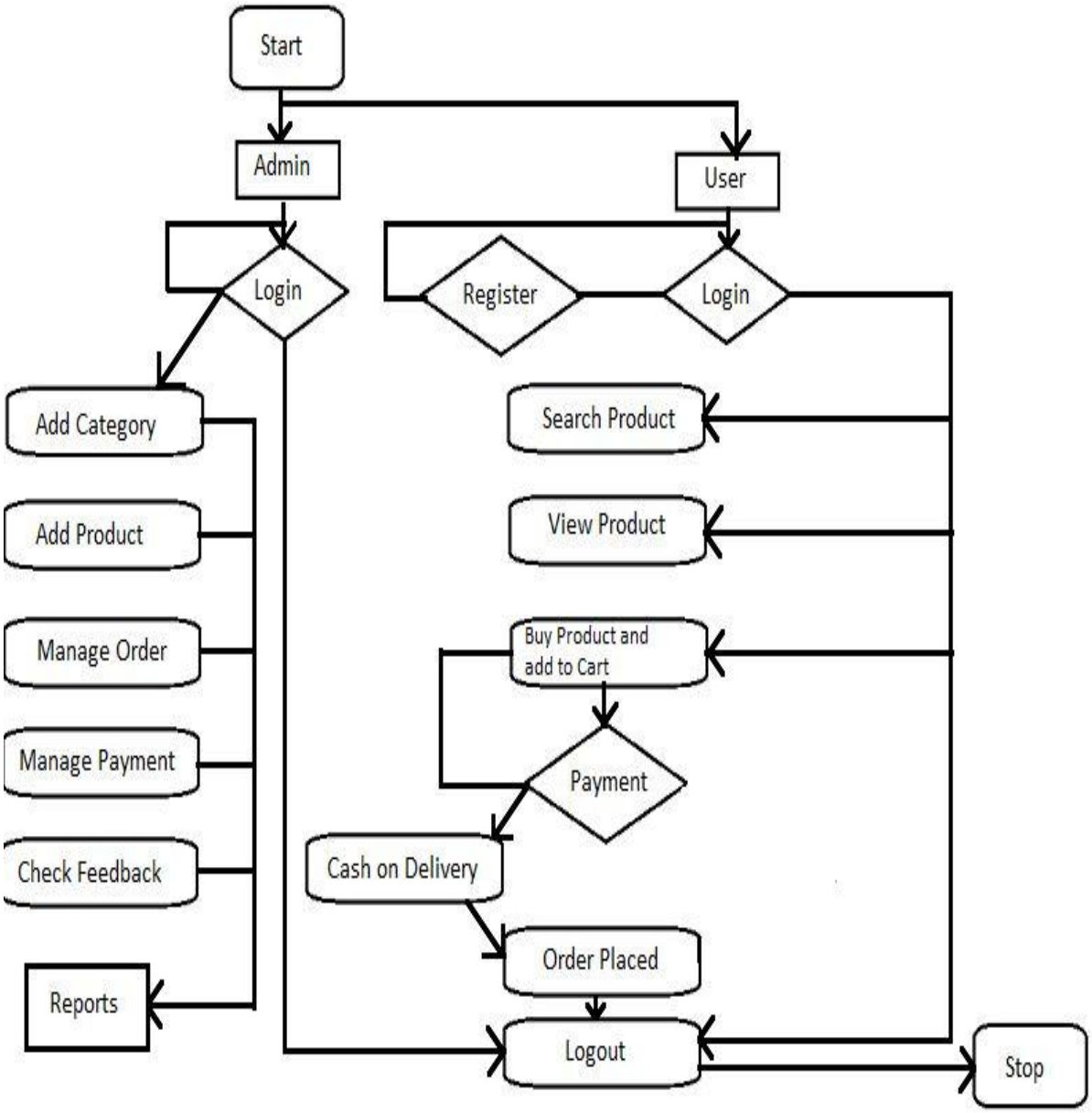
1)Front End :- Angular.

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

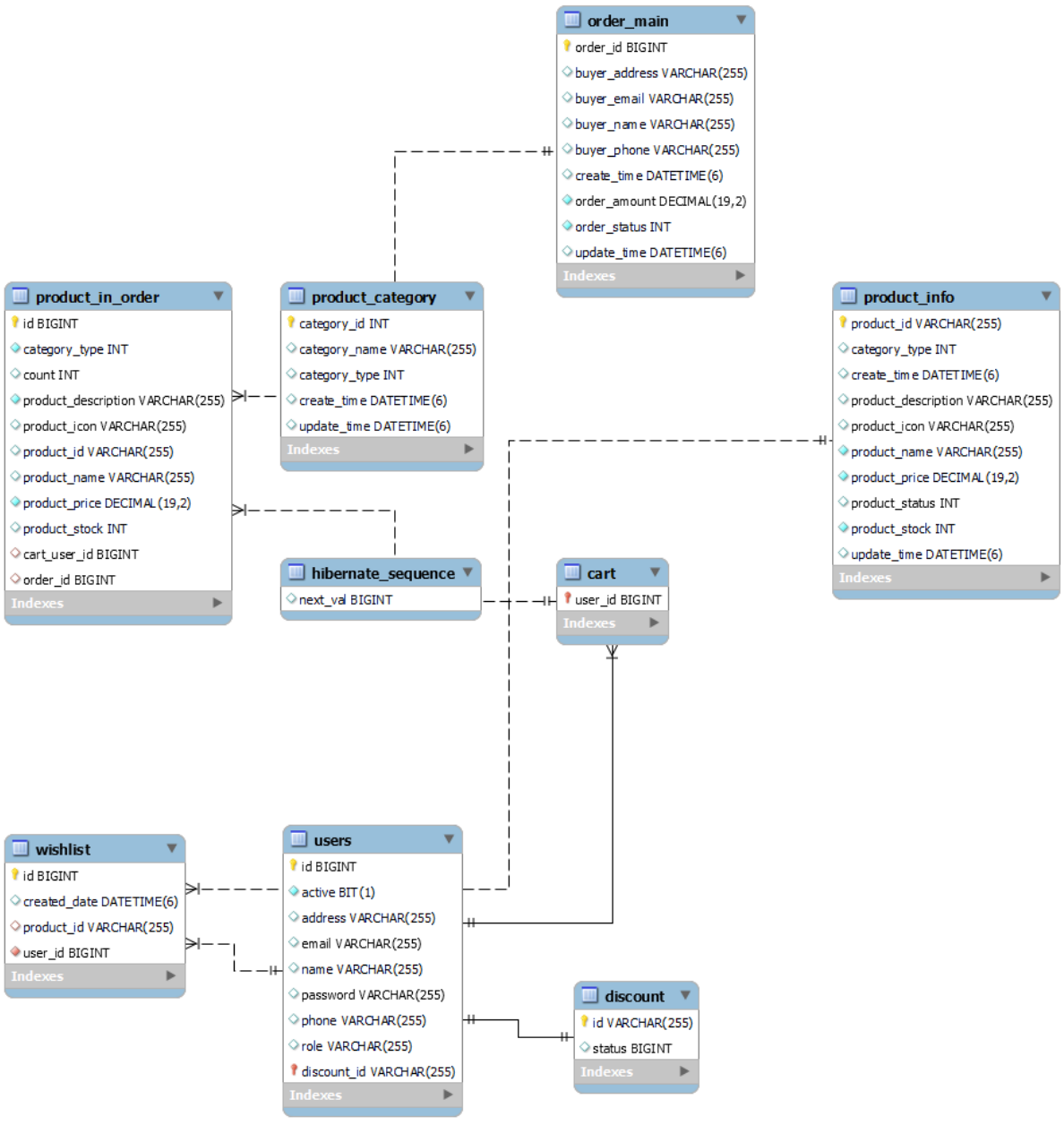
3)Database :- MySQL.

4)Server :- Tomcat.

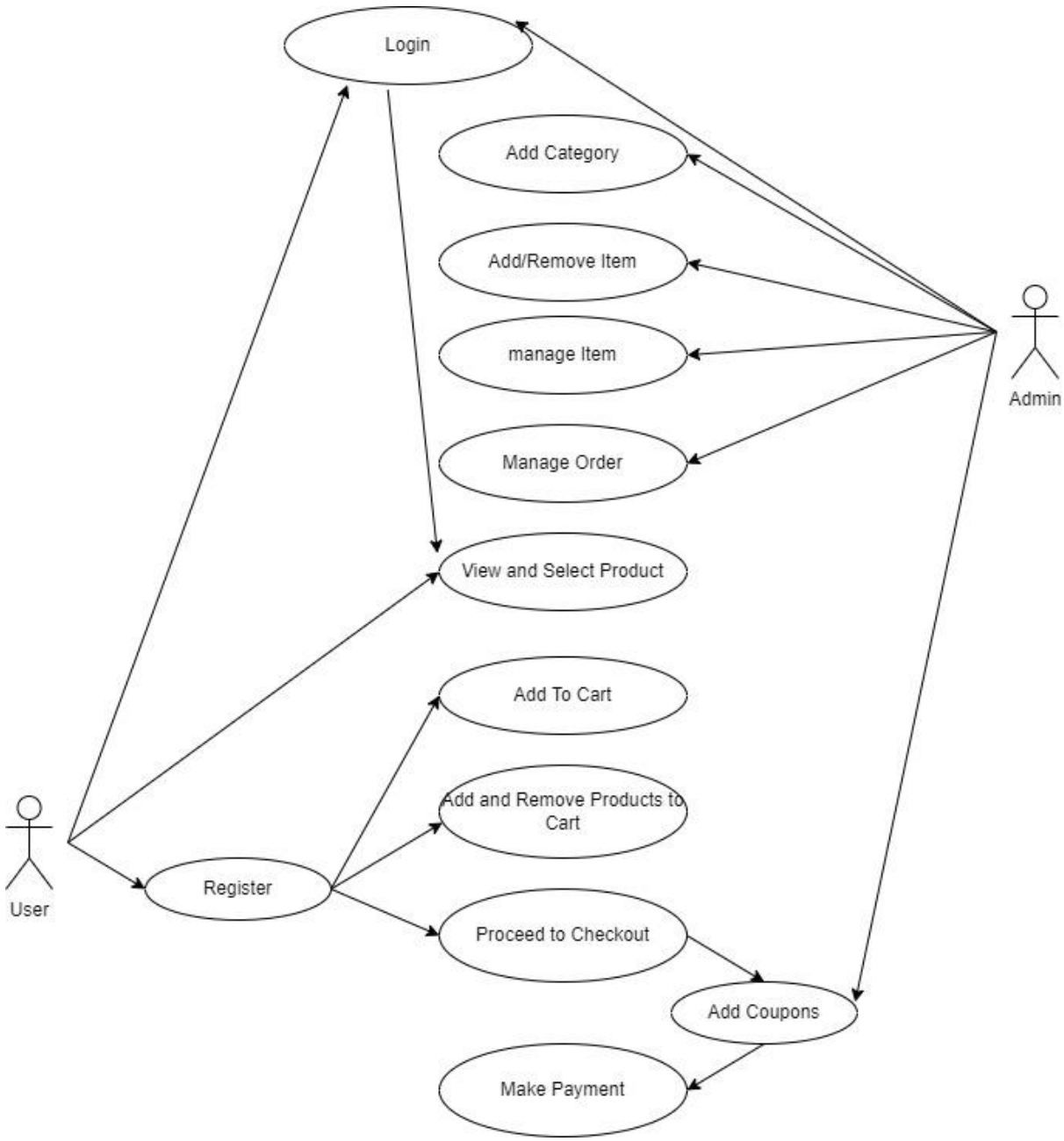
Flowchart:-


Start
Admin
User
Login
Register
Login
Add Category
Add Product
Manage Order
Manage Payment
Check Feedback
Reports
Search Product
View Product
Buy Product and add to Cart
Payment
Cash on Delivery
Order Placed
Logout
Stop

Entity Relationship Model:-



Use Case Diagram:-



Project Photos:-

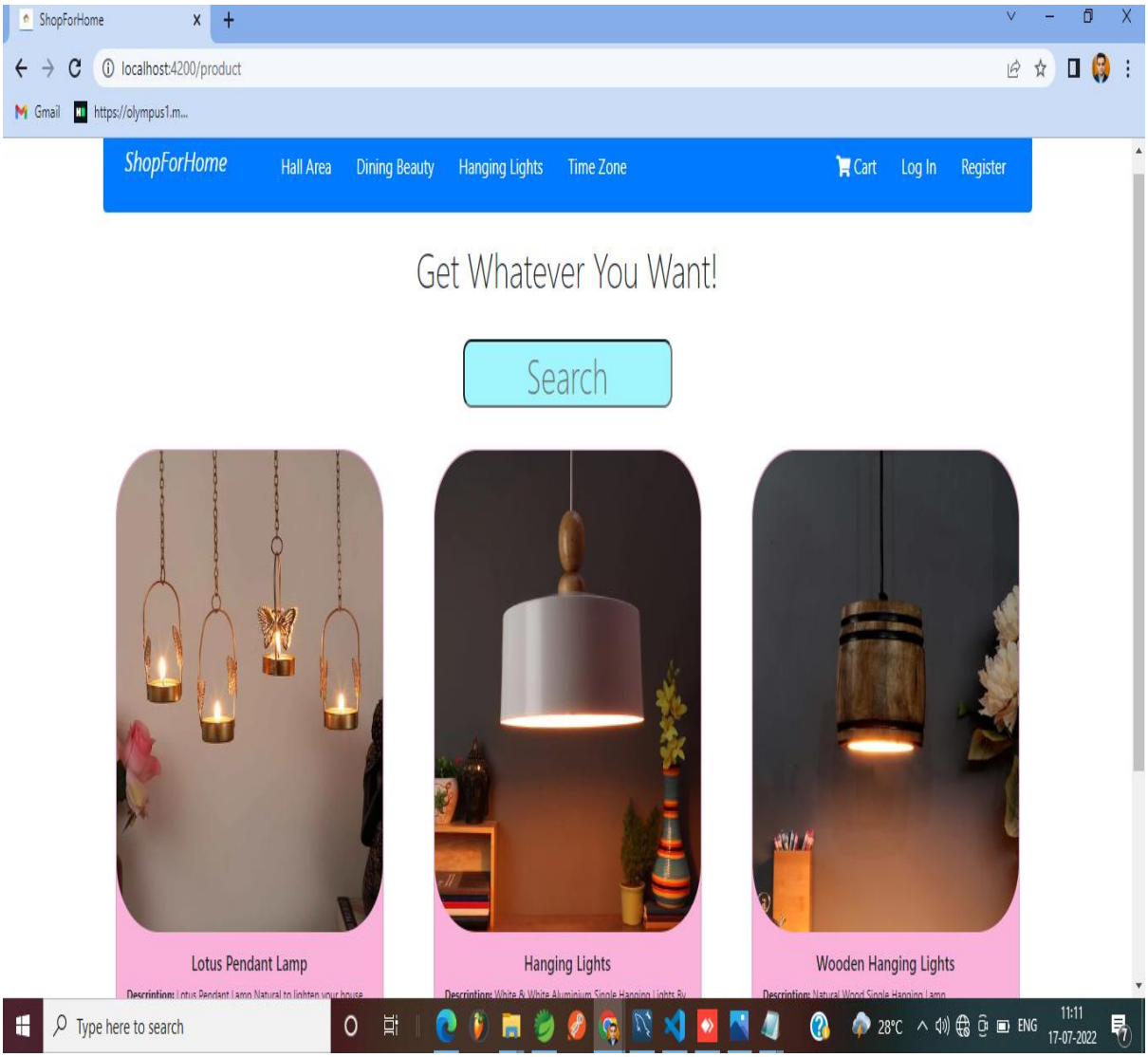
1)Home Source Code

```
<nav class="navbar navbar-expand-lg navbar-dark bg-primary" >
    <a class="navbar-brand" [routerLink]="root" style="font-size:20px;font-style:italic;margin-top:5px">
        <!-- <img hspace="5" boarder-radius="5px"src="https://thumbs.dreamstime.com/z/shopping-cart-trolley
        ShopForHome
    </a>

    <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav"
            aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">

        <div class="navbar-nav" *ngIf="!currentUser || currentUser.role == Role.Customer">

            <a class="nav-item nav-link "
               routerLink="/category/0" style="font-size:15px; color: white; margin-left:20px;">
               Hall Area
            </a>
            <a class="nav-item nav-link"
               routerLink="/category/1" style="font-size:15px; color: white; margin-left:20px;">
               Dining Beauty
            </a>
            <a class="nav-item nav-link "
               routerLink="/category/2" style="font-size:15px; color: white; margin-left:20px;">
               Hanging Lights
            </a>
            <a class="nav-item nav-link"
               routerLink="/category/3" style="font-size:15px; color: white; margin-left:20px;">
               Time Zone
            </a>
```

```
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; ">W
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; margir
74                      Log In
75                  </a>
76                  <a class="nav-item nav-link " routerLink="/register"style="font-size:15px; color:white; mar
77                      Register
78                  </a>
79              </ng-template>
80
81              </div>
82      </div>
83  </nav>
84
```

Output:-

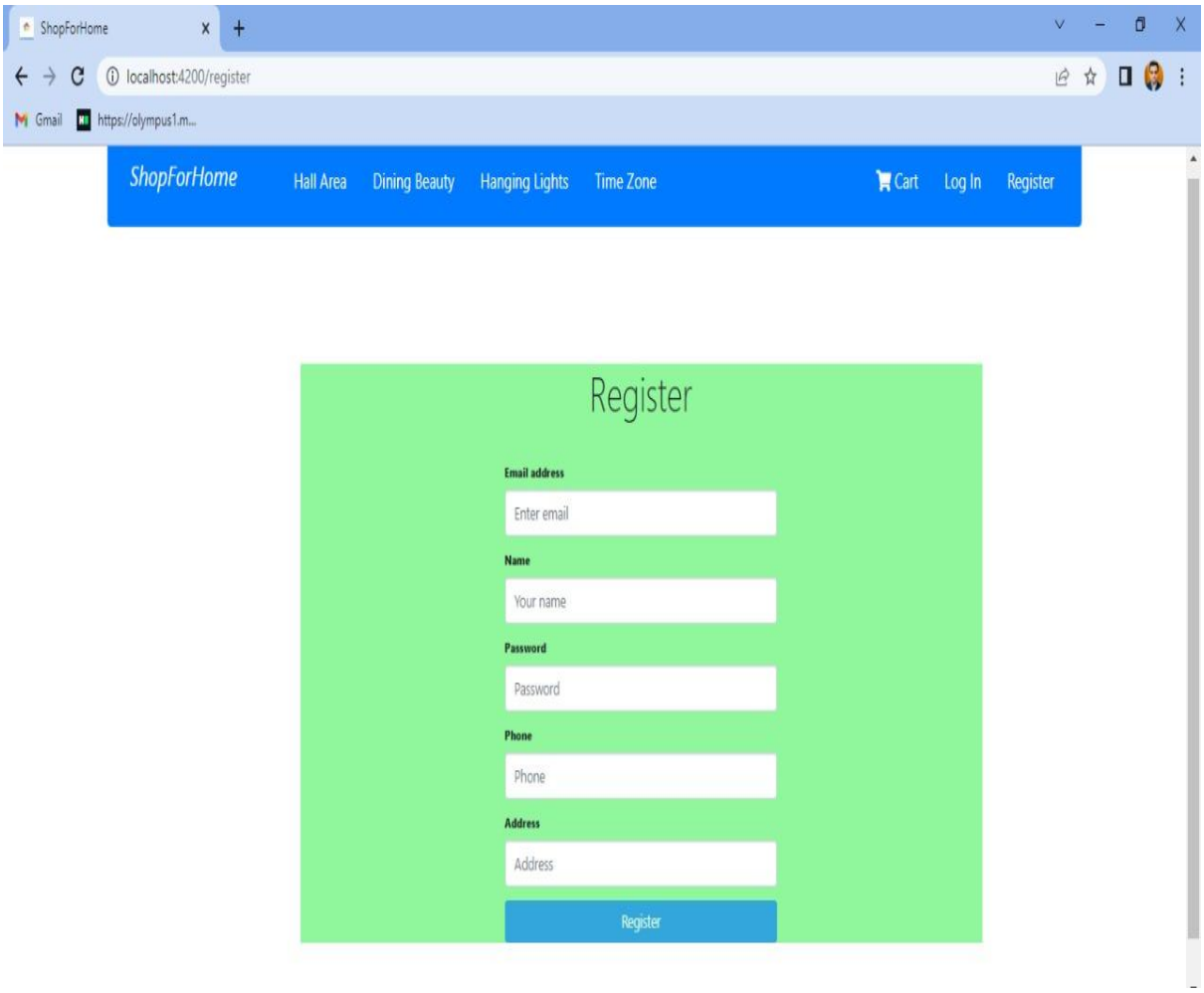

ShopForHome
localhost:4200/product
Gmail
https://olympus1.m...
ShopForHome
Hall Area
Dining Beauty
Hanging Lights
Time Zone
Cart
Log In
Register
Get Whatever You Want!
Search
Lotus Pendant Lamp
Hanging Lights
Wooden Hanging Lights
Type here to search
28°C
ENG
11:11
17-07-2022

2)Register Source Code:-

```
<div class="img">
<h1 align="center" class="display-4 mb-5">Register</h1>
<div style="width:40%; margin: 25px auto" >
  <form #form="ngForm" (ngSubmit)="onSubmit()">
    <div class="form-group">
      <label><b>Email address</b></label>
      <input [(ngModel)]="user.email" type="email" class="form-control form-control-lg" id="email" name="em
      <div  *ngIf="email.invalid && (email.dirty ||email.touched)" >
          <div *ngIf="email.errors.required" >
              Email is required.
          </div>
          <div *ngIf="email.errors.email">
              Invalid Email.
          </div>
      </div>
    </div>
    <div class="form-group">
      <label><b>Name</b></label>
      <input [(ngModel)]="user.name" type="text" class="form-control form-control-lg" id="name" name="name"
        <div  *ngIf="name.invalid && (name.dirty ||name.touched)">
          <div *ngIf="name.errors.required">
              Name is required.
          </div>
          <div *ngIf="name.errors.minlength">
              Name must be at least 3 characters long.
          </div>
        </div>
    </div>
    <div class="form-group">
      <label><b>Password</b></label>
      <input  [(ngModel)]="user.password" type="password" class="form-control form-control-lg" id="passwor
        <div  *ngIf="password.invalid && (password.dirty ||password.touched)">
```

```
          <div *ngIf="password.errors.required">
              Password is required.
          </div>
          <div *ngIf="password.errors.minlength">
              Password must be at least 3 characters long.
          </div>
        </div>
    </div>
    <div class="form-group">
      <label><b>Phone</b></label>
      <input [(ngModel)]="user.phone" type="text" class="form-control form-control-lg" id="phone" name="phc
        <div  *ngIf="phone.invalid && (phone.dirty ||phone.touched)">
          <div *ngIf="phone.errors.required">
              Phone is required.
          </div>
        </div>
    </div>
    <div class="form-group">
      <label><b>Address</b></label>
      <input [(ngModel)]="user.address" type="text" class="form-control form-control-lg" id="address" name=
        <div  *ngIf="address.invalid && (address.dirty ||address.touched)">
          <div *ngIf="address.errors.required">
              Address is required.
          </div>
        </div>
    </div>
    <div class="form-group">
      <button type="submit" class="btn btn-lg btn-primary btn-block" [disabled]="!form.form.valid" >Registe
    </div>
  </form>
</div>
</div>
```

Output:-

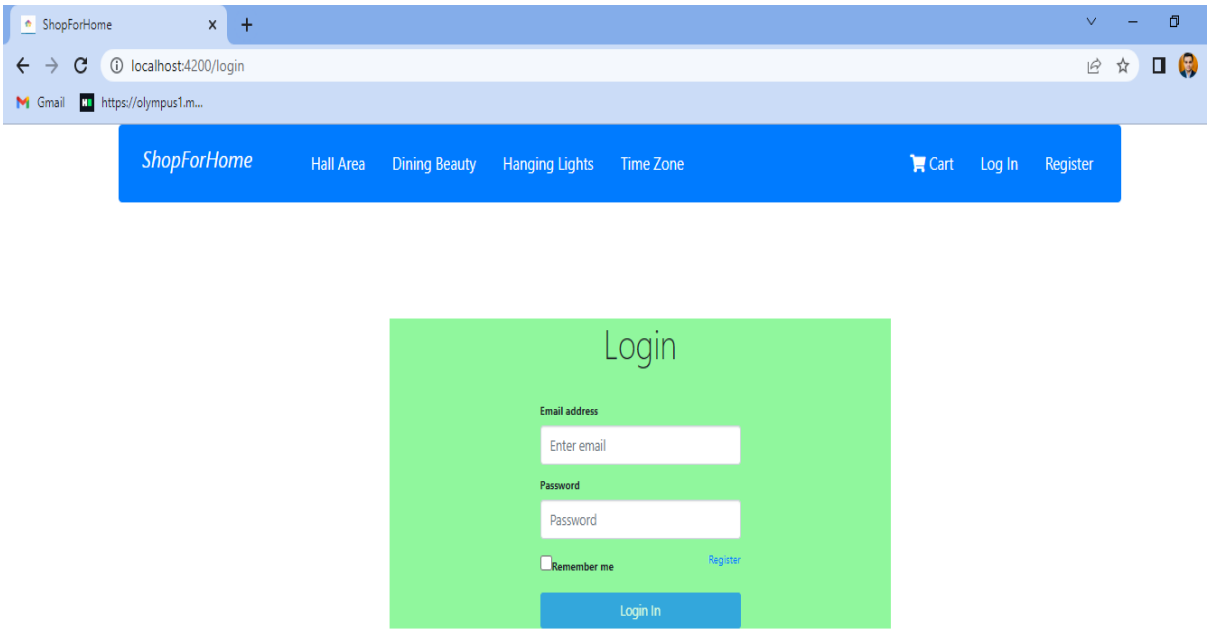

ShopForHome
localhost:4200/register
Gmail
https://olympus1.m...
ShopForHome
Hall Area
Dining Beauty
Hanging Lights
Time Zone
Cart
Log In
Register
Register
Email address
Enter email
Name
Your name
Password
Password
Phone
Phone
Address
Address
Register

3)Login Source Code:-

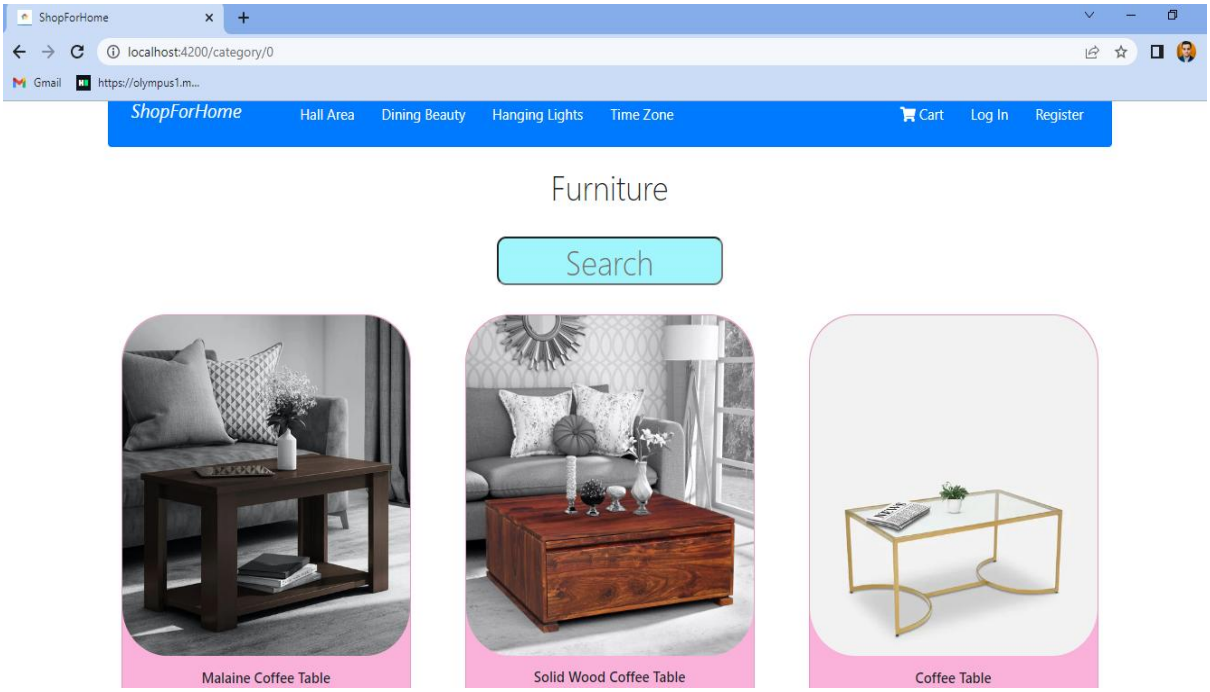
```
<div class="img" >
<h1 align="center" class="display-4 mb-5">Login</h1>
<div style="width:40%; margin: 25px auto">

    <div class="alert alert-danger" *ngIf="isInvalid">
        Invalid username and password.
    </div>
    <div class="alert alert-info" *ngIf="isLogout">
        You have been logged out.
    </div>


    <form #form='ngForm' (ngSubmit)="onSubmit()">
        <div class="form-group">
            <label>Email address</label>
            <input type="text" class="form-control form-control-lg" id="email" name="email" placeholder="Er
                required autofocus [(ngModel)]="model.username" #email="ngModel" autocomplete="email" >
            <div [hidden]="email.valid || email.pristine" class="alert alert-danger">
                Email is required
            </div>
        </div>

        <div class="form-group">
            <label>Password</label>
            <input type="password" class="form-control form-control-lg" id="password" name="password"  autc
                placeholder="Password" required [(ngModel)]="model.password" #password='ngModel'>
            <div [hidden]="password.valid || password.pristine" class="alert alert-danger">
                Email is required
            </div>
        </div>

        <div class="form-group">
```

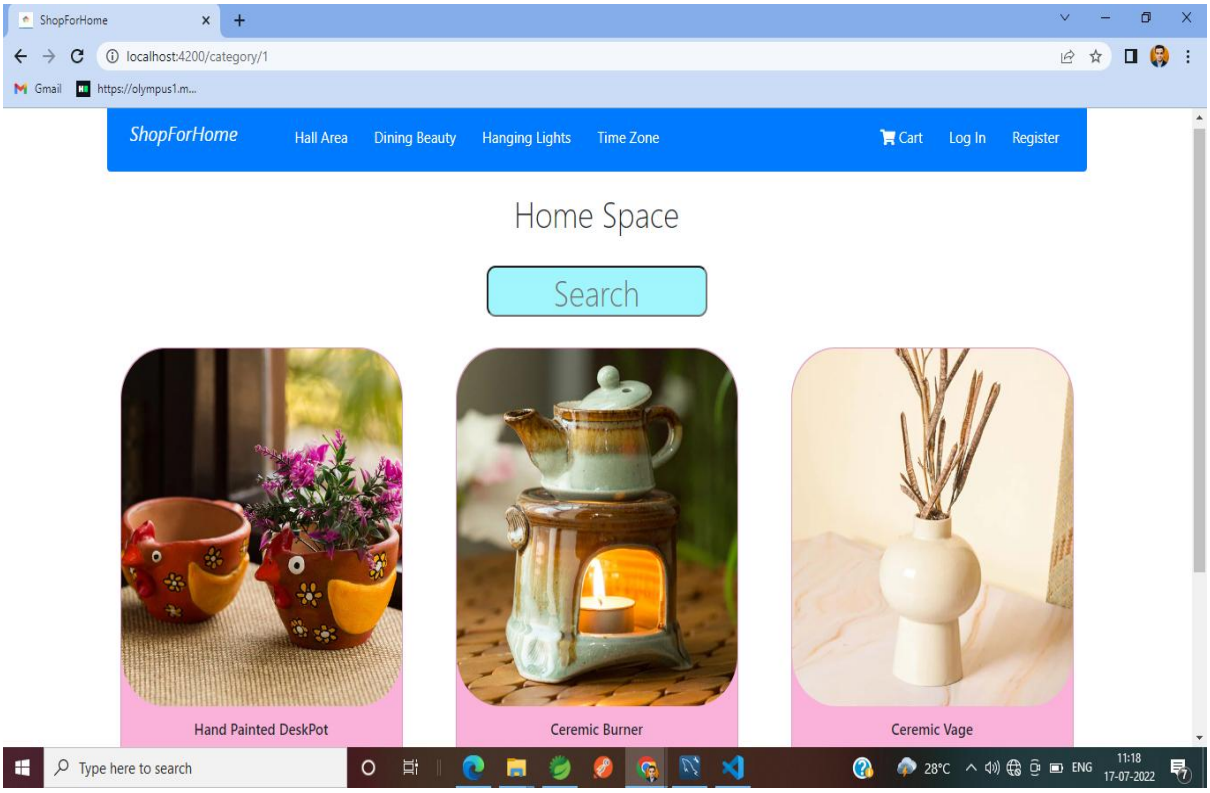
```

        <div class="form-group">
            <div>
                <input type="checkbox" id="remember_me" name="remember-me" [(ngModel)]="model.remembered">
                <label for="remember_me" class="inline">Remember me</label>
                <a class="float-right" routerLink="/register">Register</a>
            </div>
        </div>

        <div class="form-group">
            <button [disabled]="!form.form.valid" type="submit" class="btn btn-lg btn-primary btn-block">Lo
        </div>
    </form>



</div>
</div>
```

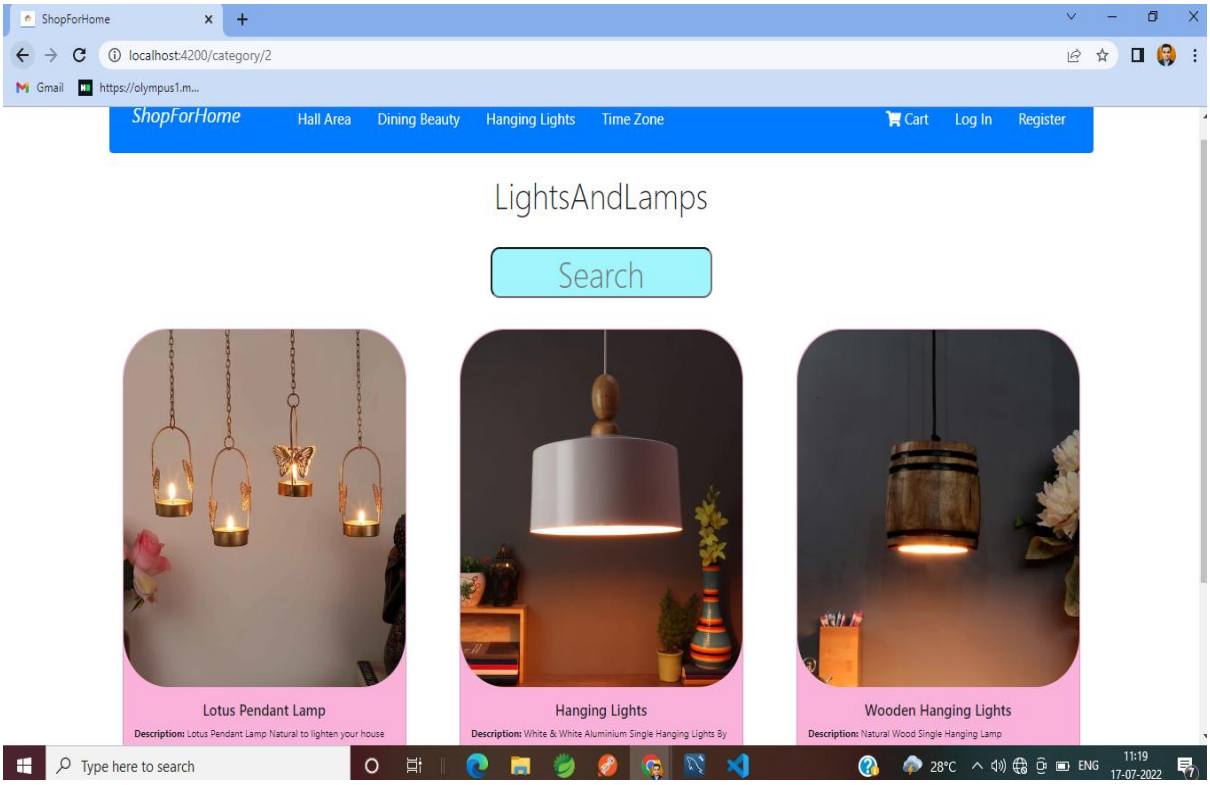
Output:-

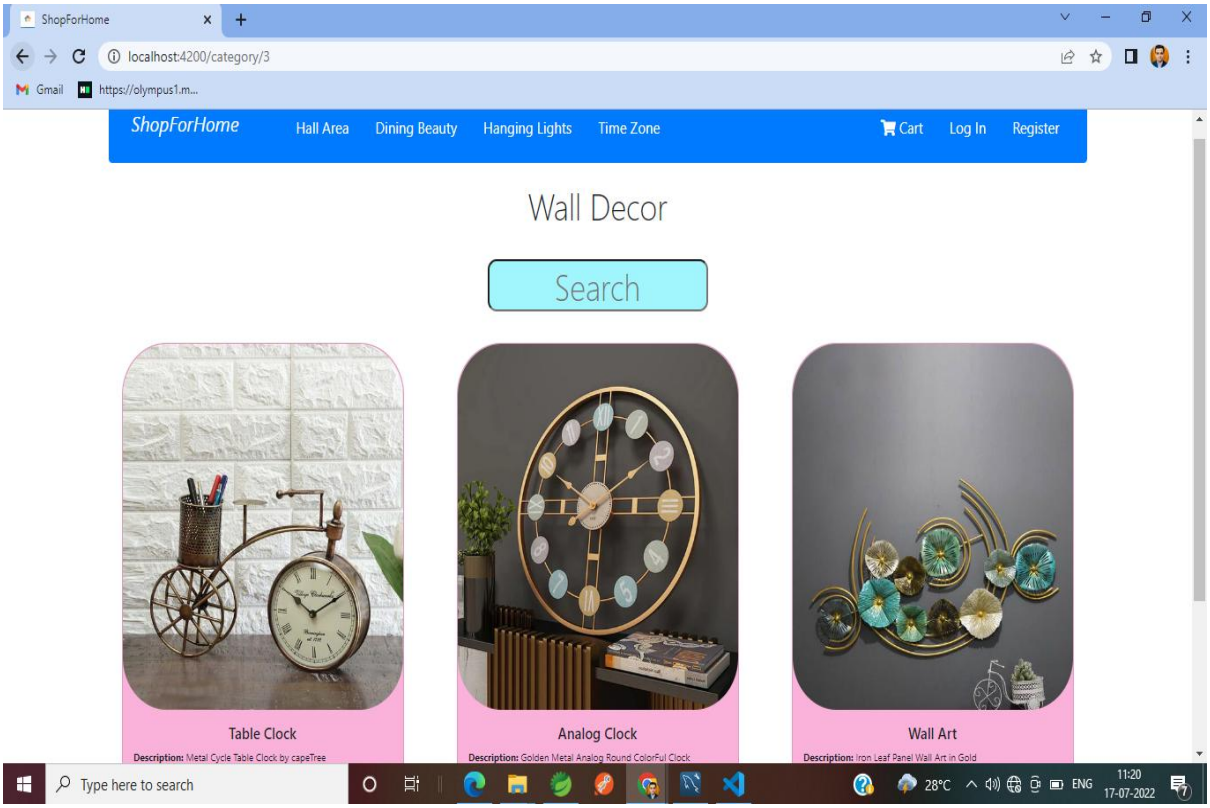

ShopForHome
localhost:4200/login
Gmail
https://olympus1.m...
ShopForHome
Hall Area
Dining Beauty
Hanging Lights
Time Zone
Cart
Log In
Register
Login
Email address
Enter email
Password
Password
Remember me
Register
Login In

4)Product Categories:-

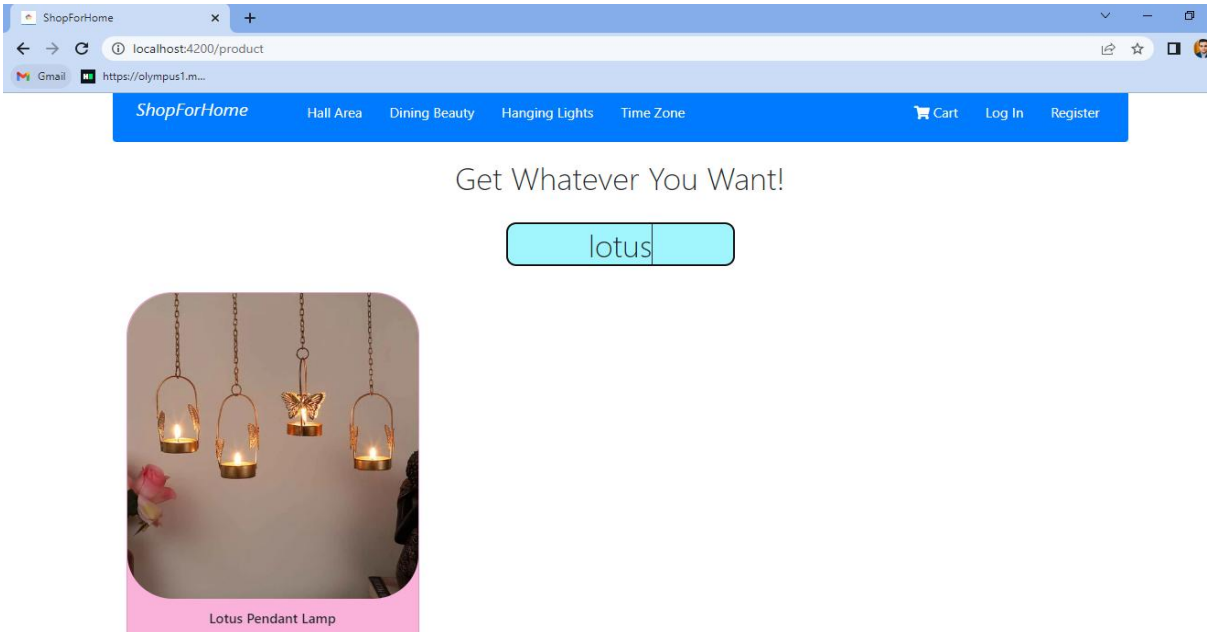




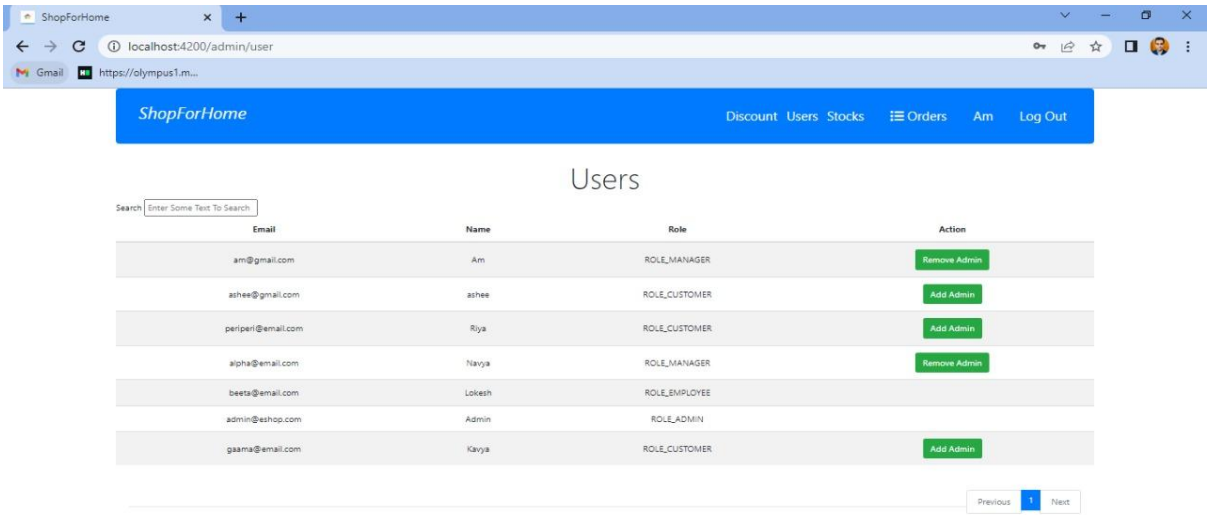

ShopForHome
localhost:4200/category/2
Gmail
https://olympus1.m...
ShopForHome
Hall Area
Dining Beauty
Hanging Lights
Time Zone
Cart
Log In
Register
LightsAndLamps
Search
Lotus Pendant Lamp
Description: Lotus Pendant Lamp Natural to lighten your house
Hanging Lights
Description: White & White Aluminium Single Hanging Lights By
Wooden Hanging Lights
Description: Natural Wood Single Hanging Lamp
Type here to search
28°C
ENG
11:19
17-07-2022


ShopForHome
localhost:4200/category/3
Gmail
https://olympus1.m...
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
ENG
11:20
17-07-2022

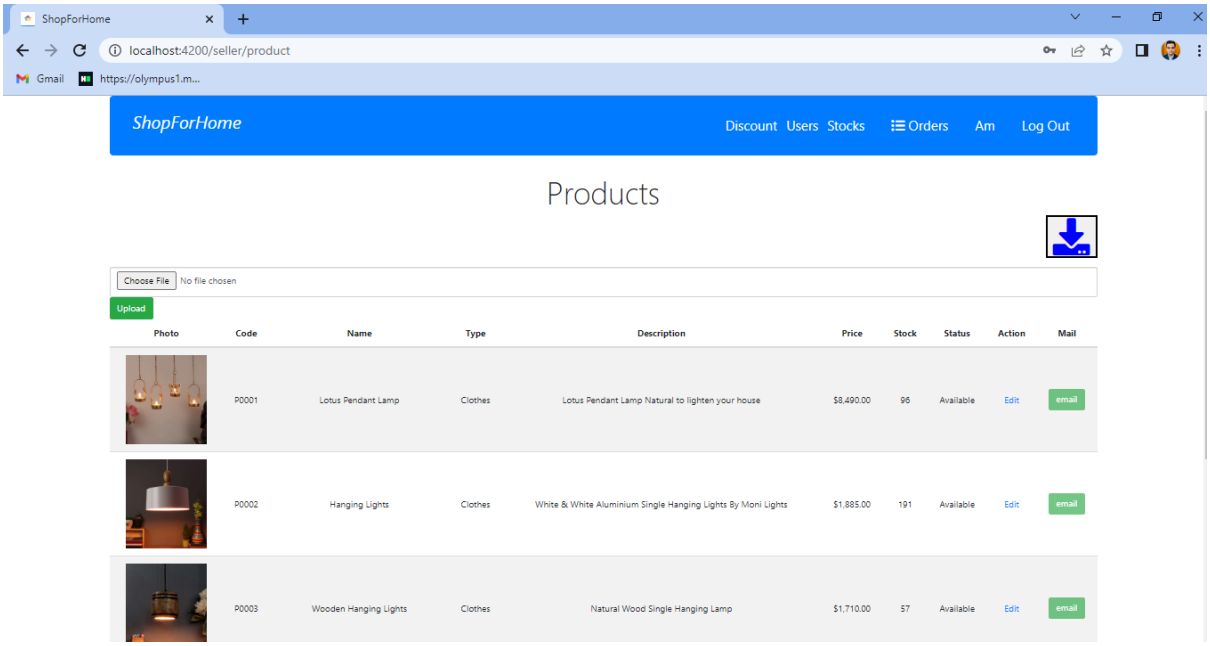
5)Search Products:-



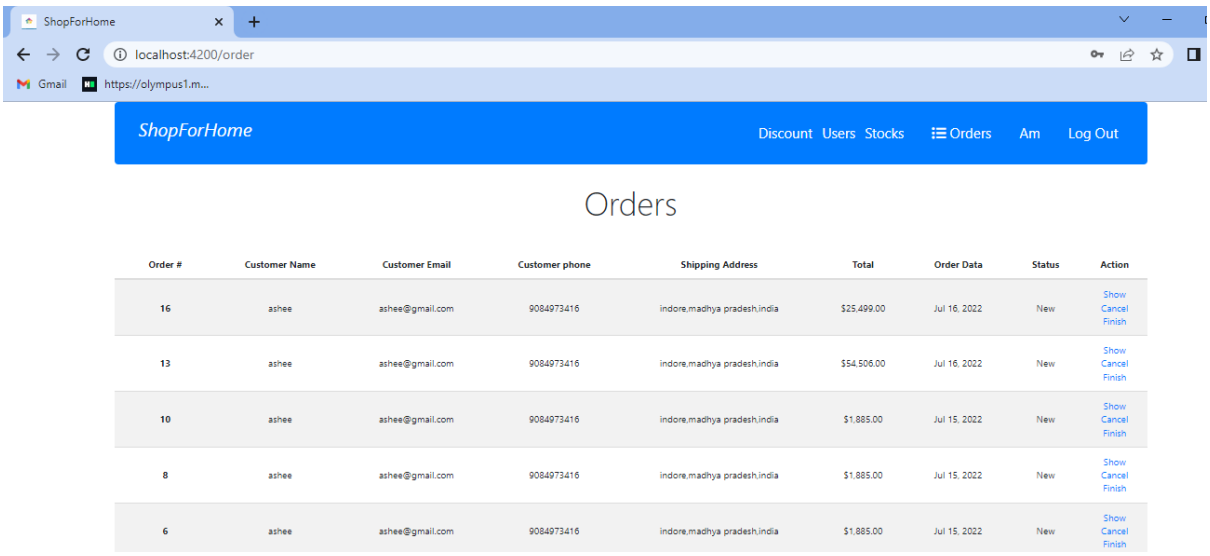
6)Users:-



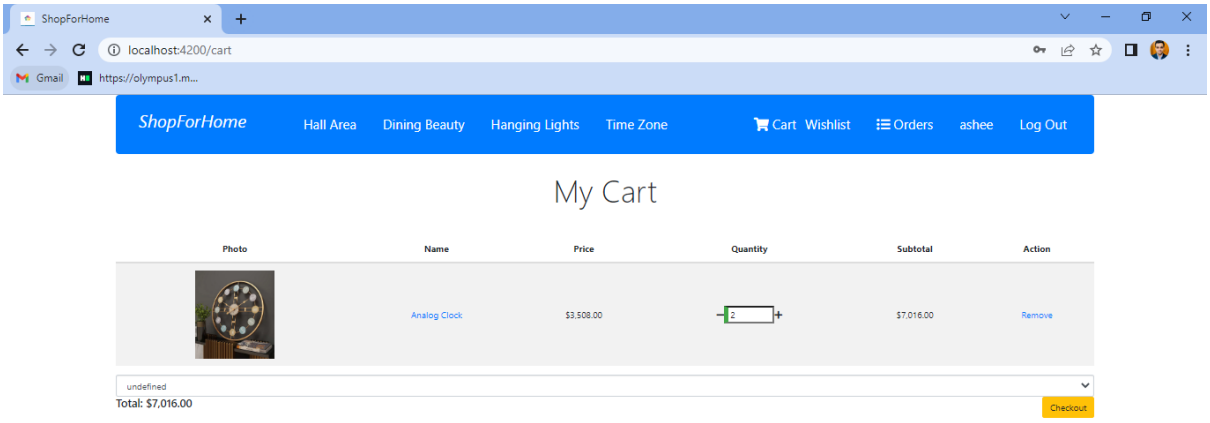
7)Products:-



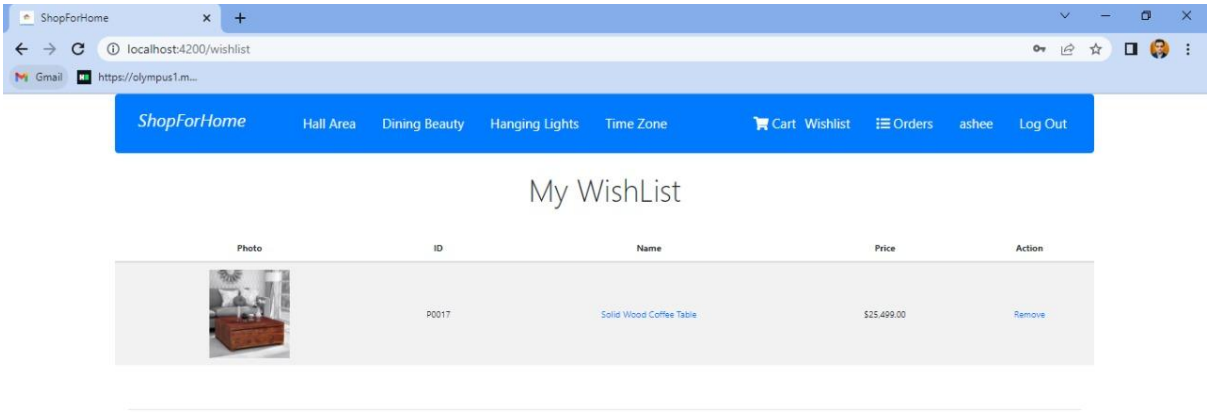
8)Orders:-



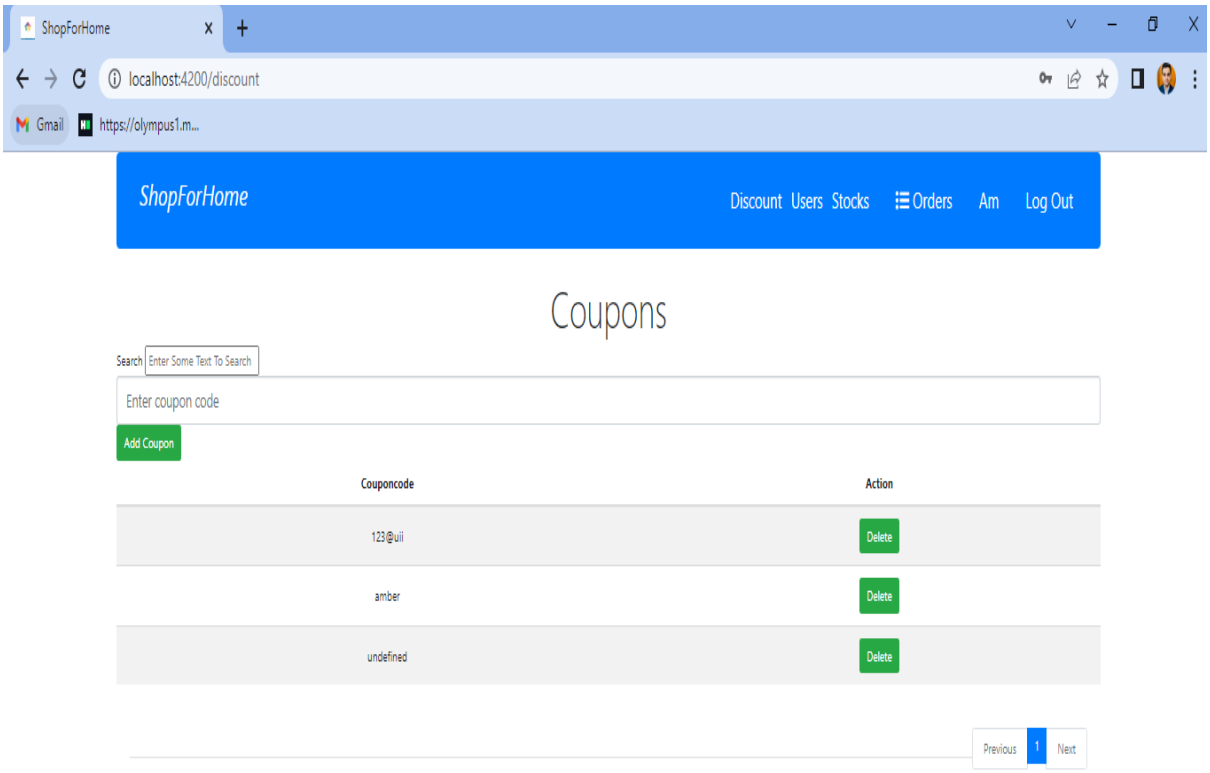
9)Cart:-



10)Wishlist:-



11)Discount Coupons:-



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.