Shop for Home

(Web application using java full stack)

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Problem statement

Problem Statement: 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: -

1) User
2) Admin

User operations

User stories

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 userIshould be able to gettheWishlist 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.

Admin operations

Admin stories

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

Abstract

- **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 online platforms and wants their own web application.
- Our existing system shop for home’s main objective is to allow people to buy and sell physical goods, services, and digital products over the internet. Through our shop for home website, a business can process orders, accept payments, manage shipping and logistics, and provide customer service.

Shop for Home

E-Commerce is process of doing business through computers.

• A user can easily access all the facilities of the Internet to buy or sell the products.

•Unlike traditional commerce that is carried out physically with effort of a person to go & get products, ecommerce has made it easier for human to reduce physical work and to save time.

•User can browse online shops, compare prices and order merchandise sitting at home on their PC.

•To achieve this we used Java Full Stack to develop an ecommerce like our existing system SHOP FOR HOME.

•We used angular for developing the frontend part and java spring boot for backend and to store the data we used MySQL.

Technologies and IDE’s used

1. Java
2. MySQL
3. Html
4. Css+Bootstrap
5. Angular
6. Spring Microservices
7. Spring Boot
8. TypeScript
9. Eclipse EE
10. Visual Studio Code

Users functionalities

Application flow of website

Application Working

Flow diagram

Route Map of our project

Front end Angular
Components
Classes
Services and Pipes
appcomponent
Home
Signin
Usersession
Cart
register
discount
Salesreport
allproducts
adminusers
Categories
fileupload
adminproduct
adminproduct
User
Product
Odetails
myorders
Email
Sales
Wishlist
Rest Service
SearchPipe
Furniture
Garden
Beds
Furnishings
Electronics
Carpets

Back end Microservices

- Eureka Server
- Discount Microservice
- Product and User Microservice
- Sales Microservice

Entities of database

- User
- Product
- Discount
- Wishlist
- Orderdetails
- Myorders
- Sales
- Email

Database Schema

Discount Microservice

BackEnd - Discount-Microservice/src/main/java/com/dao/DiscountDao.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- Discount-Microservice
  - src/main/java
    - com
      - DiscountMicroserviceApplication.java
    - com.bean
      - Discount.java
      - EmailController.java
      - EmailDetails.java
      - EmailService.java
      - EmailServiceImpl.java
    - com.controller
      - DiscountController.java
    - com.dao
      - DiscountDao.java
    - com.repository
      - DiscountRepository.java
    - com.service
      - DiscountService.java
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-11]
  - Maven Dependencies
  - src
  - target
  - HELP.md
  - mvnw
  - mvnw.cmd
  - pom.xml
- Eurekhaserver
  - src/main/java
    - com.example.Eurekhaserver
      - EurekhaserverApplication.java
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-11]
  - Maven Dependencies
  - src
  - target

MyordersCon... OrderControl... ProductCont... userControll... WishlistCon... EmailDetail... DiscountCon... DiscountDao...

```java
package com.dao;

import javax.persistence.EntityManager;


@Repository
public class DiscountDao {

    @Autowired
    EntityManagerFactory emf;

    public boolean storeDiscount(Discount offer) {
        try {
            EntityManager manager = emf.createEntityManager();
            EntityTransaction tran = manager.getTransaction();
            tran.begin();
                    manager.persist(offer);
            tran.commit();
            return true;
        } catch (Exception e) {
            // TODO: handle exception
            System.out.println(e);
            return false;
        }
    }

}
```

com.dao
DiscountDao
emf : EntityM
storeDiscour

Markers Properties Servers Data Source Explorer Snippets Console Coverage

EurekhaserverApplication [Java Application] [pid: 20260]

```
2022-07-13 14:09:47.006  INFO 20260 --- [       Thread-9] c.n.e.r.PeerAwareInstanceRegistryImpl    : Changing status to UP
2022-07-13 14:09:47.013  INFO 20260 --- [       Thread-9] e.s.EurekaServerInitializerConfiguration : Started Eureka Server
2022-07-13 14:09:47.018  INFO 20260 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 8761 (http) w
2022-07-13 14:09:47.019  INFO 20260 --- [           main] .s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 8761
2022-07-13 14:09:47.158  INFO 20260 --- [           main] c.e.E.EurekhaserverApplication           : Started EurekhaserverApplication in 5.05
2022-07-13 14:10:01.524  INFO 20260 --- [nio-8761-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring DispatcherServlet 'd
2022-07-13 14:10:01.524  INFO 20260 --- [nio-8761-exec-1] o.s.web.servlet.DispatcherServlet        : Initializing Servlet 'dispatcherServlet'
2022-07-13 14:10:01.525  INFO 20260 --- [nio-8761-exec-1] o.s.web.servlet.DispatcherServlet        : Completed initialization in 1 ms
2022-07-13 14:10:01.771  INFO 20260 --- [nio-8761-exec-6] c.n.e.registry.AbstractInstanceRegistry  : Registered instance DISCOUNT-CLIENT/DESK
2022-07-13 14:10:02.371  INFO 20260 --- [nio-8761-exec-5] c.n.e.registry.AbstractInstanceRegistry  : Registered instance DISCOUNT-CLIENT/DESK
```

com.DiscountMicroserviceApplication.java - Discount-Microservice/src/main/java

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Product and User Microservice

Sales Microservice

Front end using Angular

Main Blocks of Angular:

- Modules
- Component
- Template
- Data Binding
- Service
- Directive
- Dependency Injection

Components of Angular

Angular Classes

Angular Service

File Edit Selection View Go Run Terminal Help — rest.service.ts - wipro-capstone - Visual Studio Code

EXPLORER

WIPRO-CAPSTONE

- signin
- usersession
- wishlist
- app-routing.module.ts M
- app.component.css M
- app.component.html M
- app.component.spec.ts M
- app.component.ts M
- app.module.ts M
- discount.spec.ts U
- discount.ts U
- email.spec.ts U
- email.ts U
- myorders.spec.ts U
- myorders.ts U
- odetails.spec.ts U
- odetails.ts U
- orders.spec.ts U
- orders.ts U
- rest.service.spec.ts U
- rest.service.ts U
- sales.spec.ts U
- sales.ts U
- sort.service.spec.ts U
- sort.service.ts U
- user.spec.ts U
- user.ts U
- wishlist.spec.ts U
- wishlist.ts U

OUTLINE

TIMELINE

TOMCAT SERVERS

app.module.ts M | rest.service.ts U | app.component.ts M

src > app > rest.service.ts > RestService

```
14  @Injectable({
15    providedIn: 'root'
16  })
17  export class RestService {
18
19    constructor(private http:HttpClient) { }
20
21    category:number=0;
22    setcategory(i:number){
23      this.category=i;
24    }
25    getCategory(){
26      return this.category;
27    }
28
29
30    url9:string="http://localhost:8282/products/findAll";
31    allusers:string="http://localhost:8282/user/users";
32    wishdata:string="http://localhost:8282/wishlist/wishlistProducts";
33    regUser:string=""
34    success:boolean=false;
35    user:number=0;
36    userLoggedin!:User;
37    rdata:any;
38    wishpids:string="http://localhost:8282/wishlist/wishlistPids";
39    wishprods:string="http://localhost:8282/products/getWishlistProducts";
40
41
42    private baseUrl = 'http://localhost:8282/api/csv';
43
44    uploadingfile(file: File): Observable<HttpEvent<any>> {
45      const formData: FormData = new FormData();
46      formData.append('file', file);
47      const req = new HttpRequest('POST', `${this.baseUrl}/upload`, formData, {
48        reportProgress: true,
49        responseType: 'json'
50      });
```

You have Docker installed on your system. Do you want to install the recommended extensions for it?

Install | Show Recommendations

master* | ⊗ 0 ⚠ 0 | Ln 29, Col 3 | Spaces: 2 | UTF-8 | LF | TypeScript | Go Live | Prettier

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Front end View

WiproCapstone

localhost:4200/garden

Shop for Home

Myorders Signin | Register

Home Garden&Outdoor Furniture Carpets Appliances Furnishings Beds&Mattresses My Coupons

Filter By

High to Low price

Low to High price

Garden and Outdoors items

- **Ceramic Pot**
- Black Ceramic Cut Designer Floor Planter
- **Price** : Rs.700

- **Decorative items**
- White Stone Grace Decorative Pebbles
- **Price** : Rs.145

- **Stylish Planter**
- Black Iron Rickshaw Shape Floor Planter without Pot
- **Price** : Rs.599

- **Floor Planter**
- Multicolour Iron Diamond Floor Planter, Set of 3
- **Price** : Rs.1099

- **Floor Planter**
- White Fiber Glass Cylindrical Shaped Medium Floor Planter
- **Price** : Rs.1199

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WiproCapstone

localhost:4200/signin

Shop for Home

Myorders Signin | Register

Home Garden&Outdoor Furniture Carpets Appliances Furnishings Beds&Mattresses My Coupons

Sign in

Enter the Username:

Username

Password

password

login

Not registered yet ? Register

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WiproCapstone

localhost:4200/register

Shop for Home

Myorders Signin | Register

Home Garden&Outdoor Furniture Carpets Appliances Furnishings Beds&Mattresses My Coupons

Registration

Enter the username

Enter the email

Enter the password

Enter the Phone number

Enter the address

Register

Already have an account? Sign in

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Shop for Home

Add More to wishlist

Welcome to Your Wishlist

- **Decorative items**
- White Stone Grace Decorative Pebbles
- **Price :** 145

- **Bedroom carpet**
- Black Polyester Geometric 3 x 5 Feet Machine Made Carpet
- **Price :** 699

- **Stylish Planter**
- Black Iron Rickshaw Shape Floor Planter without Pot
- **Price :** 599

- **Decorative items**
- White Stone Grace Decorative Pebbles
- **Price :** 145

- **Welcome door Mat**
- Brown PVC Slogan Door Mat
- **Price :** 299

Shop for Home

Myorders Signout | Register
AdminOperations

Discount Coupon
Discount Coupon

Home Garden&Outdoor Furniture Carpets Appliances Furnishings Beds&Mattresses My Coupons Add More to cart

Your Cart

- **Wardrobe large Size**
- Kosmo Apex 4 Door Wardrobe With Drawer in Frosty White Colour
- **Price :** 4599
- **Address :**Andhrapradesh
- **UserEmail:**admin@gmail.com
- **Discount :** 0% off

0

- **Price** after Discount: Rs.0

- **Ceramic Pot**
- Black Ceramic Cut Designer Floor Planter
- **Price :** 700
- **Address :**Andhrapradesh
- **UserEmail:**admin@gmail.com
- **Discount :** 0% off

0

- **Price** after Discount: Rs.0

Place Order

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Your Orders

- **Floor Carpet**
- Brown Polyester Vintage 4 x 6 Feet Machine Made Carpet
- **Price :** Rs.1958
- **Address :**2/242-3,Near Ambedkar circle,Pullur,Khajipet
- **UserEmail:**sallurikalyan777@gmail.com

- **Bedroom Mat**
- Beige Microfibre Shag 3 x 5 Feet Machine Made Carpet
- **Price :** Rs.418
- **Address :**2/242-3,Near Ambedkar circle,Pullur,Khajipet
- **UserEmail:**sallurikalyan777@gmail.com

- **Blue Pillow Civer**
- Blue 100% Cotton Striped Printed 120 TC 1 Single Bedsheet With 1 Pillow Cover
- **Price :** Rs.1258
- **Address :**2/242-3,Near Ambedkar circle,Pullur,Khajipet
- **UserEmail:**sallurikalyan777@gmail.com

Shop for Home

My Discount Coupons

- **Discount** : 30 off

- **Discount** : 20 off

- **Discount** : 10 off

- **Discount** : 25 off

- **Discount** : 40 off

Update product Details

ProductId

Enter the pname

Enter the description

Enter the price

Enter the image url

Enter the stock quantity

Enter the category

Update

WiproCapstone

localhost:4200/admincrud

Shop for Home

Myorders | Signout | Register

AdminOperations

Home | Garden&Outdoor | Furniture | Carpets | Appliances | Furnishings | Beds&Mattresses | My Coupons

AdminOperations

- Users
- Products
- Sales report
- Upload Stocks
- Get stocks
- Update product
- New Coupon

Filter By

All Product Details

Pro		Product Name	Description	Price	Category	Stock Quantity	Mail	Delete
		Product name	Description	0	category	0	**********	Add product
		Bed with Storgae	Wakefit Taurus Engineered Wood Bed with Storage (78*60inch) / (198.1*152.4cm)	10999	Beds&Mattresses	49	mail to vendor	Delete
103		Welcome door Mat	Brown PVC Slogan Door Mat	299	Beds&Mattresses	10	mail to vendor	Delete
104		Casual Carpet	Abstract Pattern Polyester Fur 5 x 2 Feet Shaggy Bedside Runner	599	Beds&Mattresses	30	mail to vendor	Delete
106		Bedroom Mat	Beige Microfibre Shag 3 x 5 Feet Machine Made Carpet	299	Beds&Mattresses	70	mail to vendor	Delete

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Sales Report

Date	UserId	ProductId	Product Name	Category	Quantities sold	Product Price	Total Price
2022-07-02	1	53075	Ceramic Pot	Gardens&Outdoor	1	700	700
2022-07-06	1	601	Washing machine	Appliances	1	40000	40000
2022-07-09	94145	601	Washing machine	Appliances	3	40000	120000
2022-07-12	94145	601	Washing machine	Appliances	2	40000	80000
2022-07-12	94145	601	Washing machine	Appliances	2	40000	80000
2022-07-12	1	204	Blue Pillow Civer	Furnishings	3	899	2697
2022-07-12	1	402	Indoor Mat	Carpets	2	449	898
2022-07-12	94145	204	Blue Pillow Civer	Furnishings	2	629	1258
2022-07-12	1	201	Pillows	Furnishings	2	499	998
2022-07-12	94145	407	Floor Carpet	Carpets	2	979	1958
2022-07-12	1	201	Pillows	Furnishings	2	449	898
2022-07-12	1	101	Bed with Storgae	Beds&Mattresses	1	10999	10999
2022-07-12	1	210	fridge	Appliances	2	19999	39998
2022-07-12	94145	204	Blue Pillow Civer	Furnishings	2	629	1258
2022-07-12	94145	205	Stylish Covers	Furnishings	2	489	978
2022-07-12	72488	501	Ceramic Pot	Garden&Outdoor	2	560	1120
2022-07-12	94145	102	Soft Mattress	Beds&Mattresses	1	13649	13649
2022-07-09	1	201	Pillows	Furnishings	2	499	998
2022-07-09	53075	501	Ceramic Pot	Garden&Outdoor	2	700	1400
2022-07-12	72488	501	Ceramic Pot	Garden&Outdoor	2	560	1120

All User Details

User Id	User Name	Email	Password	Phone	Address	Delete
0	Username	Email	password	Phone	Address	Add User
1	admin	admin@gmail.com	admin	9441346691	Andhrapradesh	Delete
11	dsjkajk	hsjh@bdvjk.com	bdkjsahui	12344	bxzJBZJb	Delete
101	duplicate	duplicate@gmail.com	demo	123278687	hdsiuhfh	Delete
52494	demo	demo@gmail.com	demo	123456789	hsdhadlsduj	Delete
58589	dummy	dummy@gmail.com	dummy	123456	dummy	Delete
72488	amma	amma@gmail.com	amma	12345678	kadapa	Delete
94145	skalyan	sallurikalyan777@gmail.com	12345	7601073764	2/242-3,Near Ambedkar circle,Pullur,Khajipet	Delete

Discount Id	Discount Image	Discount percentage	Add to user by using userid
11		30%	0 Add to user
12		20%	0 Add to user
13		10%	0 Add to user

Shop for Home

Add Coupon

DiscountId

Discount Percentage

Coupon image

Add

Thank you