



Shop For Home

Capstone Project
C2 - G1

Shop For Home

Group Members –

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Under the supervision of –

Mr. KiranKumar Kurra(Mentor)

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.**
- **If you expect to grow your business this year, you need to give customers an exceptional online shopping experience.**

Solution

- A website to connect shopkeepers online.
- A website that will allow you to buy from your favourite store near you online.
- A way of digitization for the sellers and customers.
- Just create an account and take your shop online.
- Wide range of variety for customer.
- No need to go to shop.

Objectives and Purpose

- Our existing system SHOP FOR HOME's main objective is to allow people to buy physical goods, services, and digital products over the internet. Through our SHOP FOR HOME website, a business can process orders, manage shipping and logistics, and provide customer service.
- Coming back to track which they were kicked off by malls and big shops connected online.
- Promoting digitalization scheme and competing other shopkeepers.
- Providing services at doorstep.

Abstract

- **E-Commerce is process of doing business through internet.**
- **A user can easily access all the facilities of the Internet to buy 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 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.**

FUNCTIONAL REQUIREMENTS

User Stories –

- As a user I should be able to login, Logout and Register into the application.
- As a user I should be able to see the products in different categories.
- As a user I should be able to sort the products.
- As a user I should be able to add the products into the shopping cart.
- As a user I should be able to increase or decrease the quantity added in the cart.
- As a user I should be able to add “n” number of products in the cart.
- 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.
- As a user I should get different discount coupons.

FUNCTIONAL REQUIREMENTS

Admin Stories –

- As an Admin I should be able to login, Logout and Register into the application.
- As an Admin I should be able to perform CRUD on Users.
- As an Admin I should be able to Perform CRUD on the products.
- As an Admin I should be able to get bulk upload option to upload a csv for products details
- As an Admin I should be able to get the stocks.
- As an Admin I should be able to mail if any stock is less than 10.
- As an Admin I should be able to get the sales report of a specific duration.
- As an Admin I should be able to set the discount coupons for the specific set of users

Tools and Technology

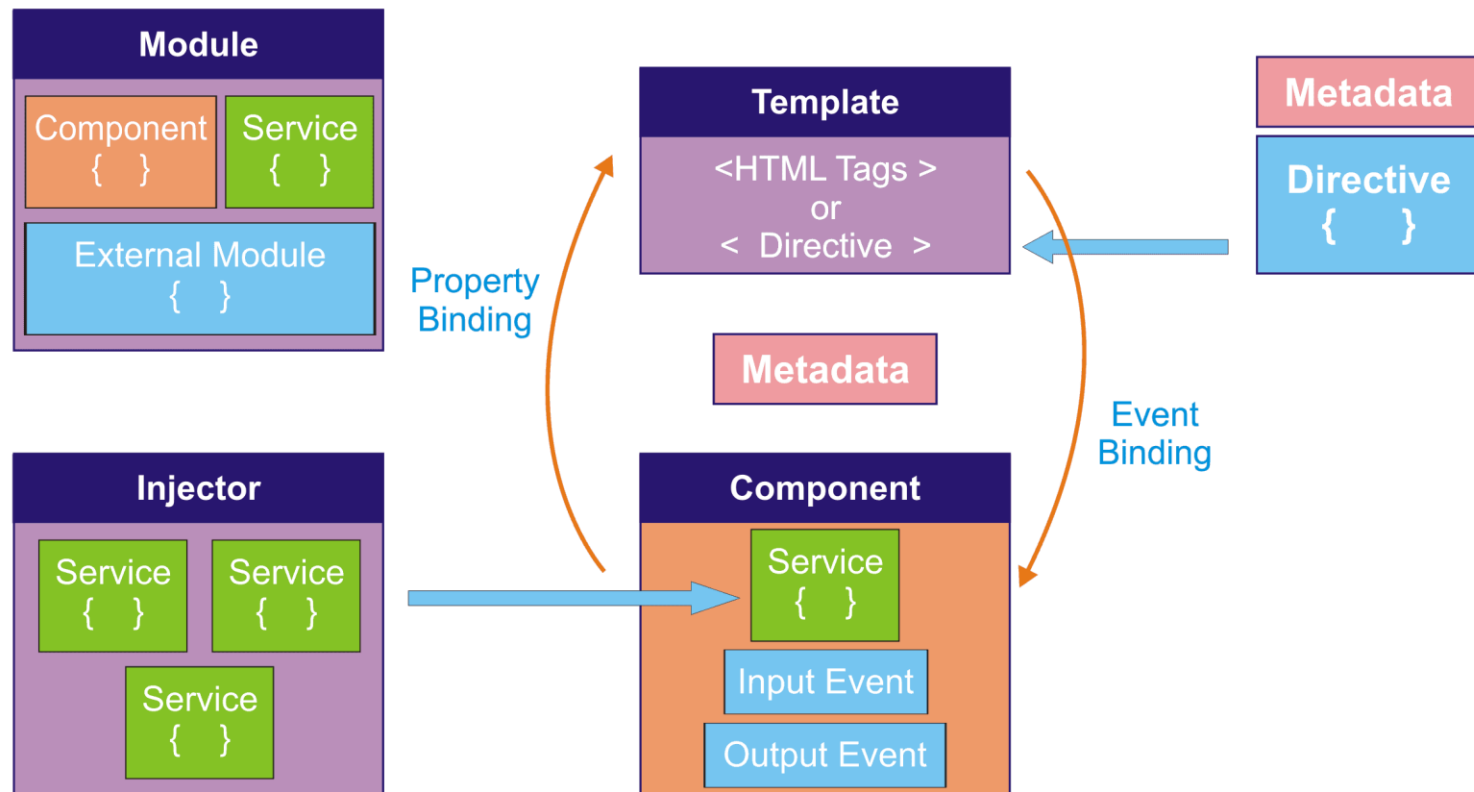
Technology –

- Angular
- Java Spring Boot
- MySQL

Tools -

- Spring Tool Suite
- Visual Studio Code
- MySQL

Angular Architecture



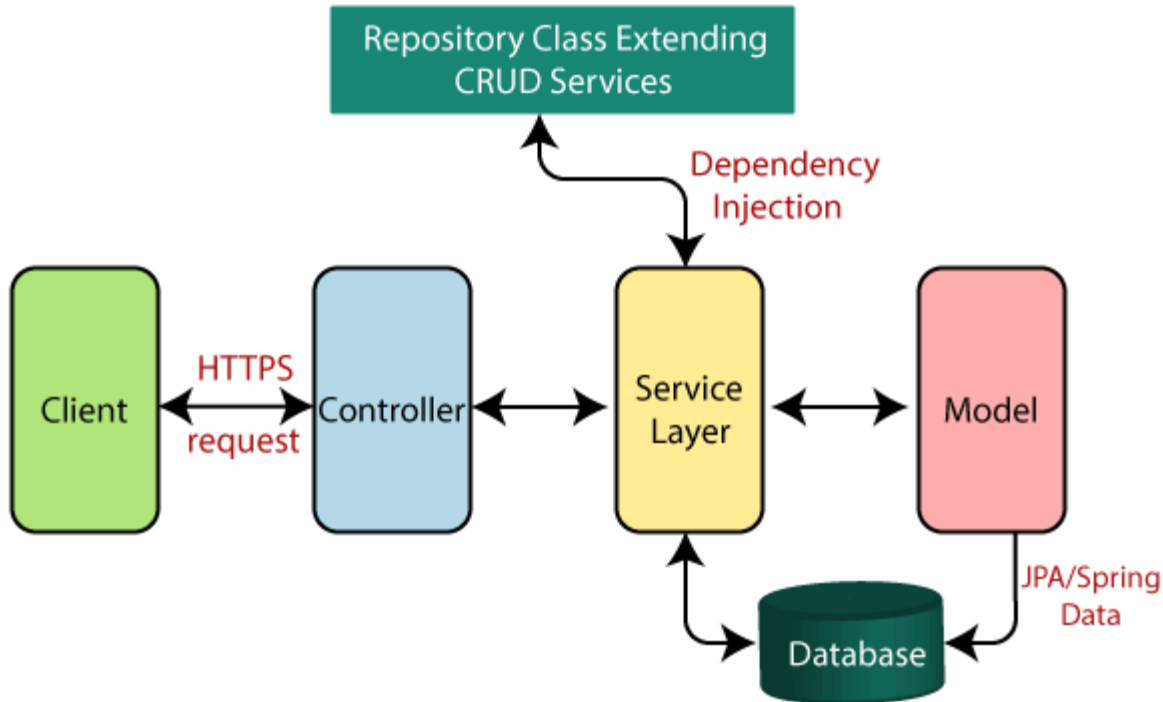
Angular Architecture

There are main eight blocks of Angular:

- **Module**
- **Component**
- **Metadata**
- **Template**
- **Data Binding**
- **Service**
- **Directive**
- **Dependency Injection**

Spring Boot Architecture

Spring Boot flow architecture

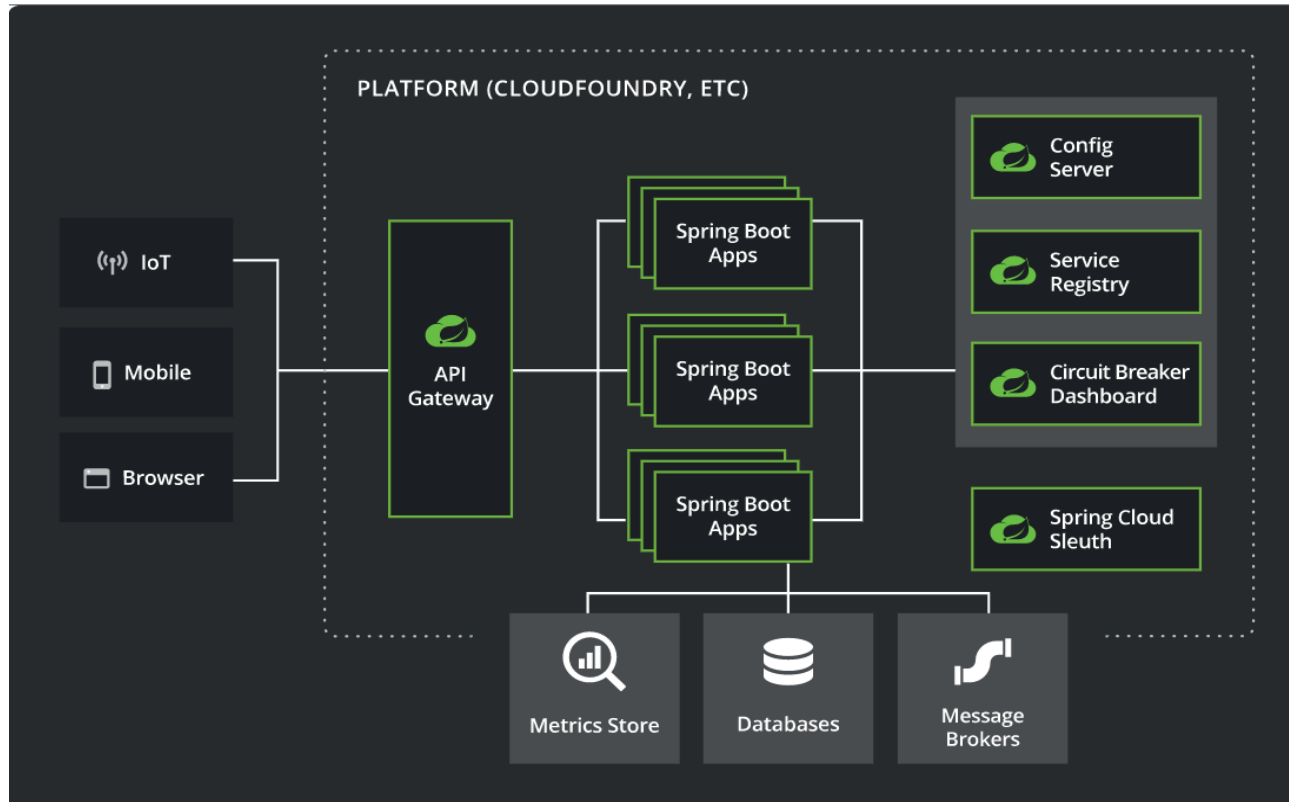


Spring Boot Architecture

The spring boot consists of the following four layers-

- **Presentation Layer – Authentication & Json Translation**
- **Business Layer – Business Logic, Validation & Authorization**
- **Persistence Layer – Storage Logic**
- **Database Layer – Actual Database**

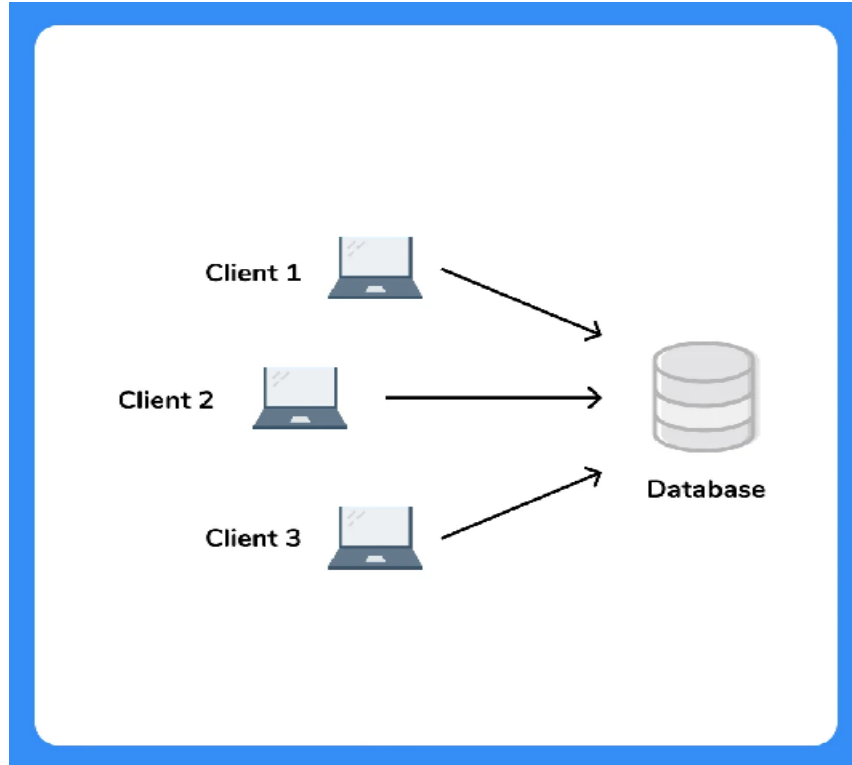
Microservice Architecture



Microservice Architecture

- **Microservices are a modern approach to software whereby application code is delivered in small, manageable pieces, independent of others.**
- **Their small scale and relative isolation can lead to many additional benefits, such as easier maintenance, improved productivity, greater fault tolerance, better business alignment, and more.**

Database Architecture

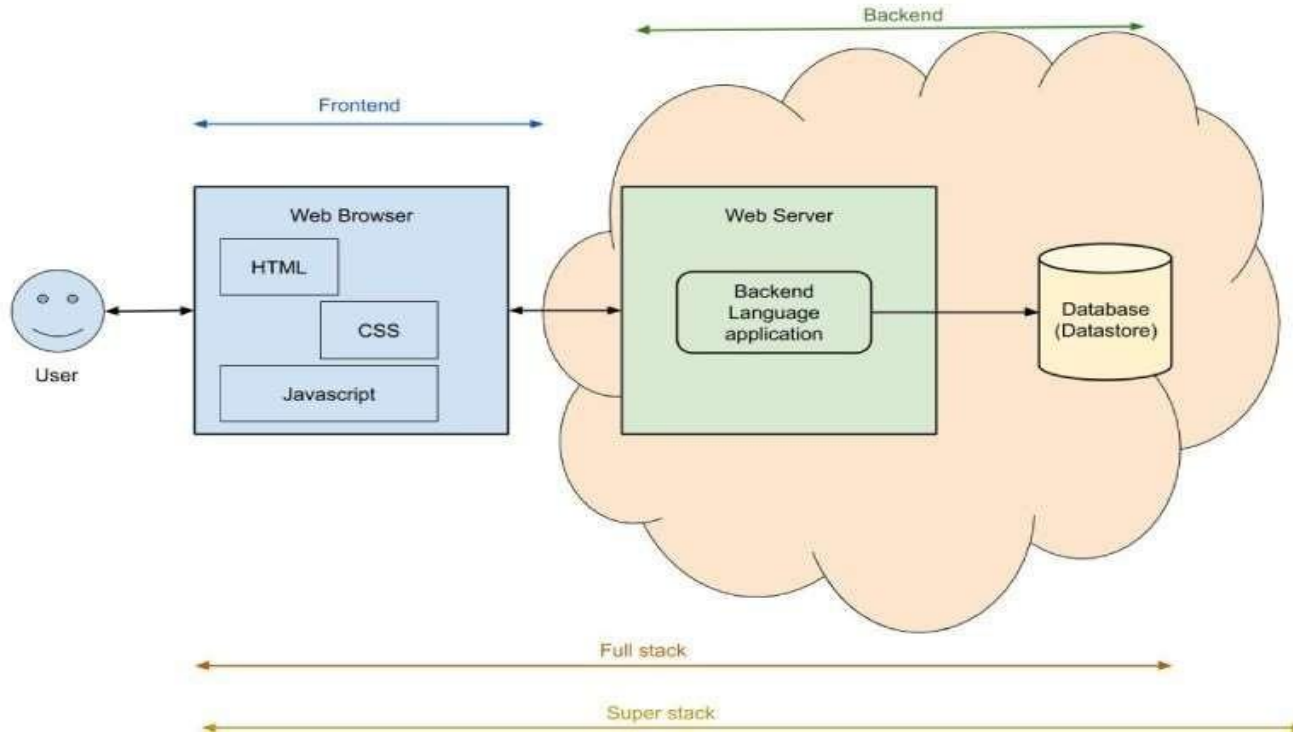


Database Architecture

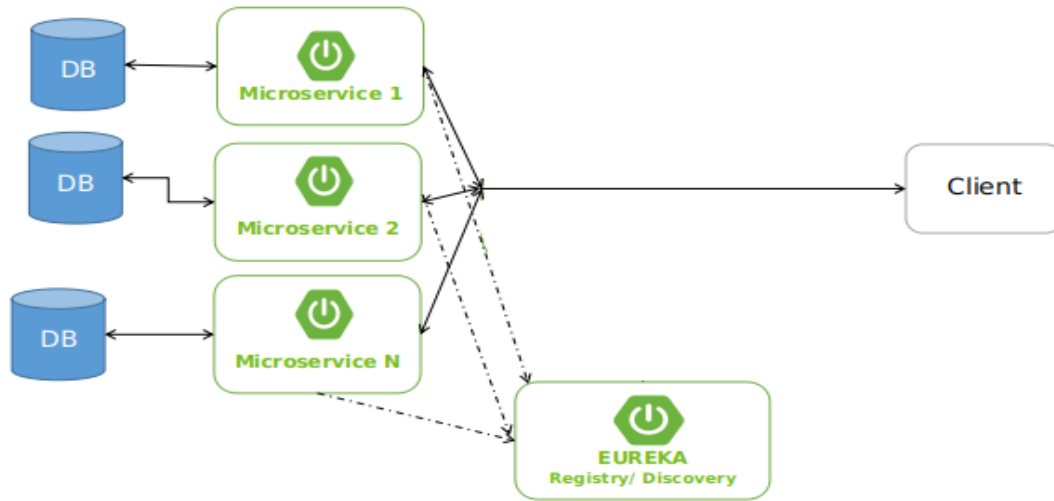
Entities in the Database include –

- **Product_Category**
- **Product_info**
- **Cart**
- **Users**
- **product_in_order**
- **Order_main**
- **Wishlist**
- **Discount**

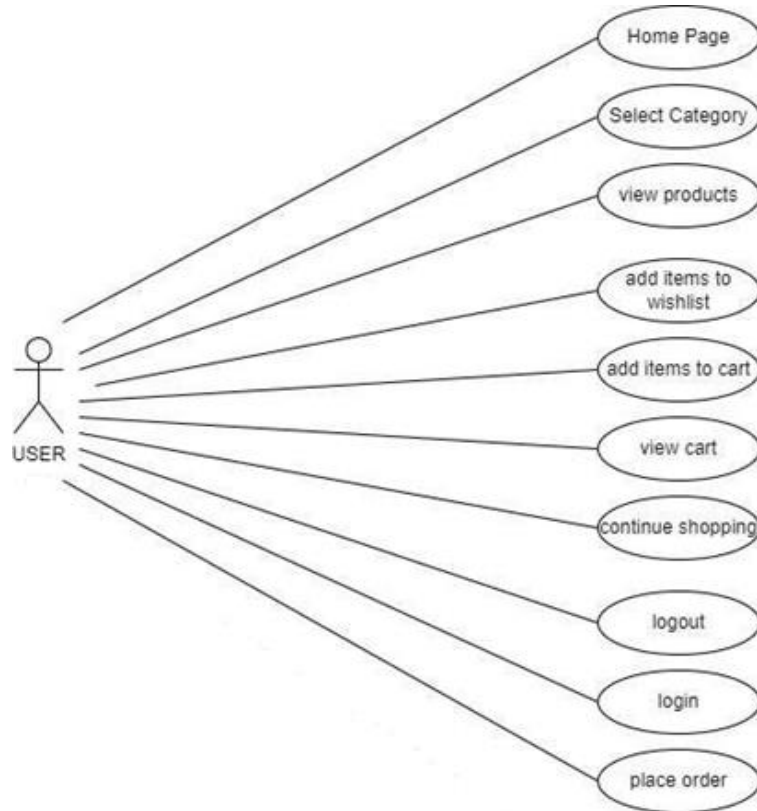
Total Project View



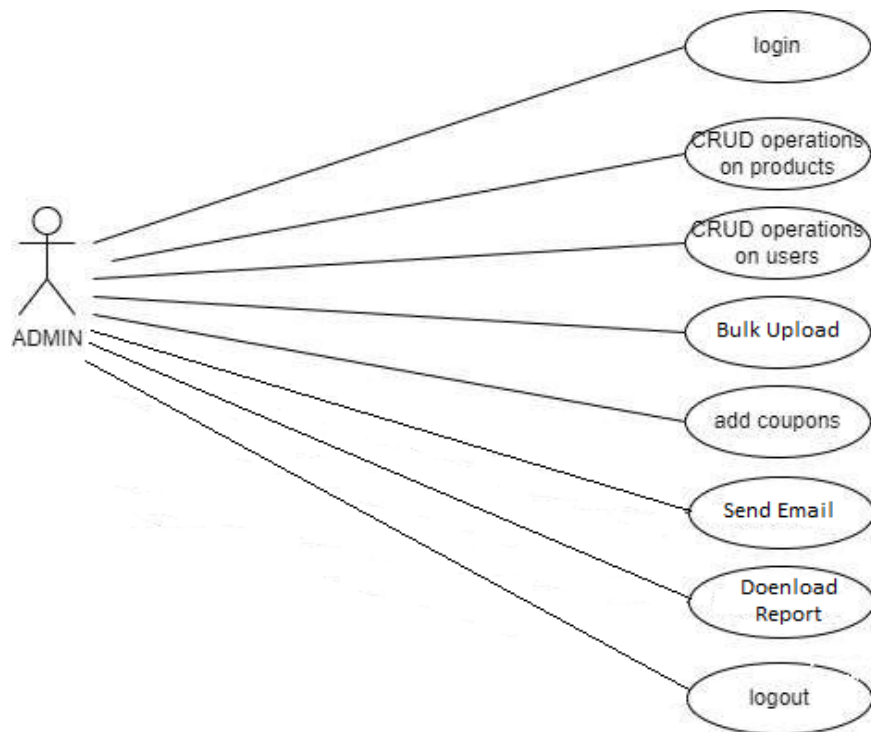
Total Project View



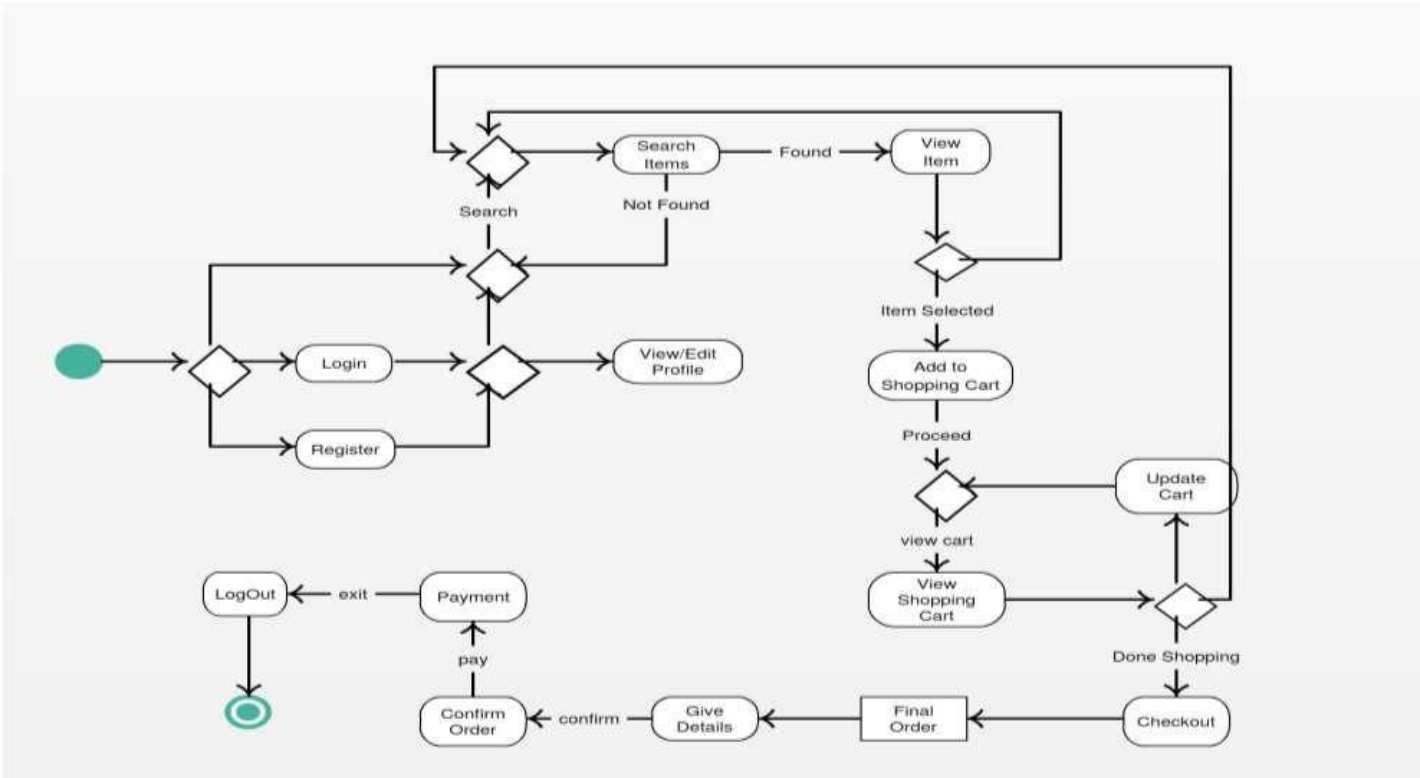
Functionality Of User



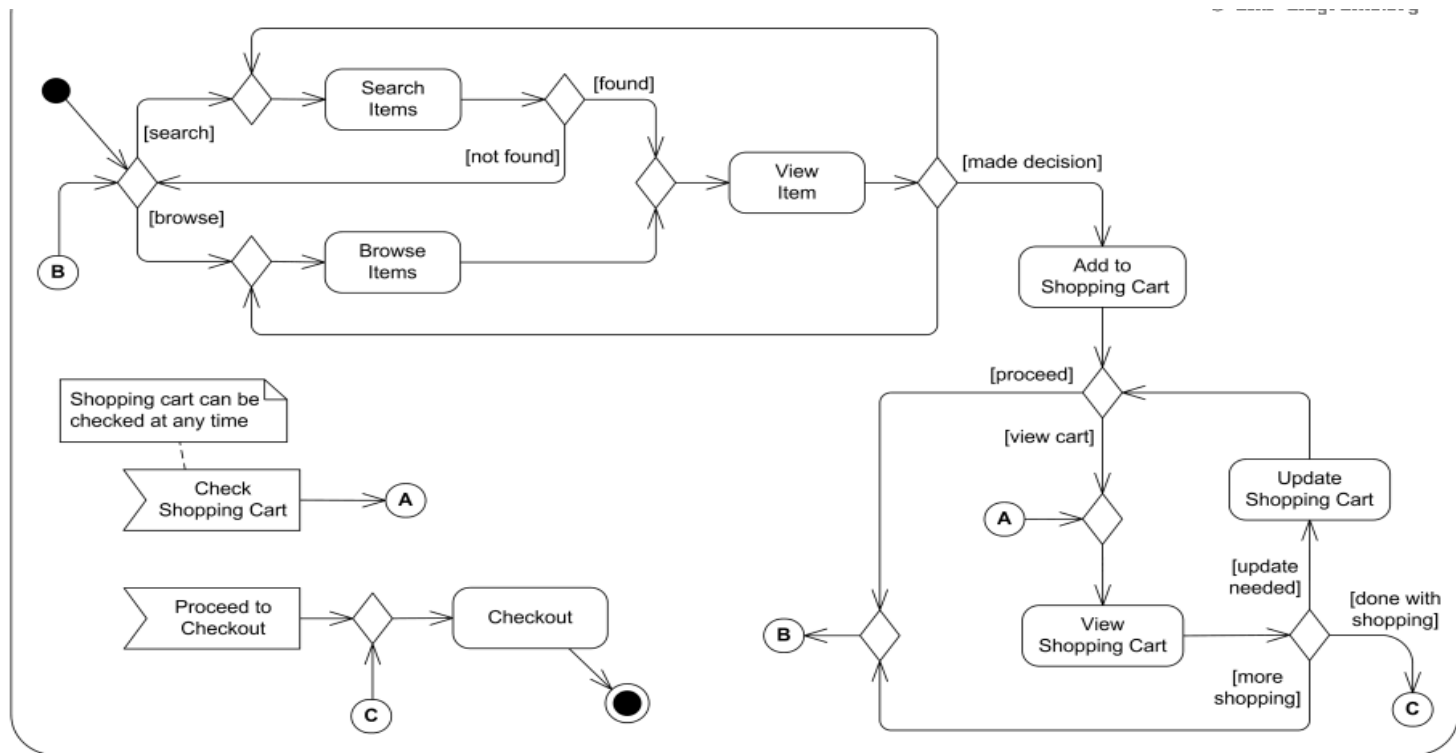
Functionality Of Admin



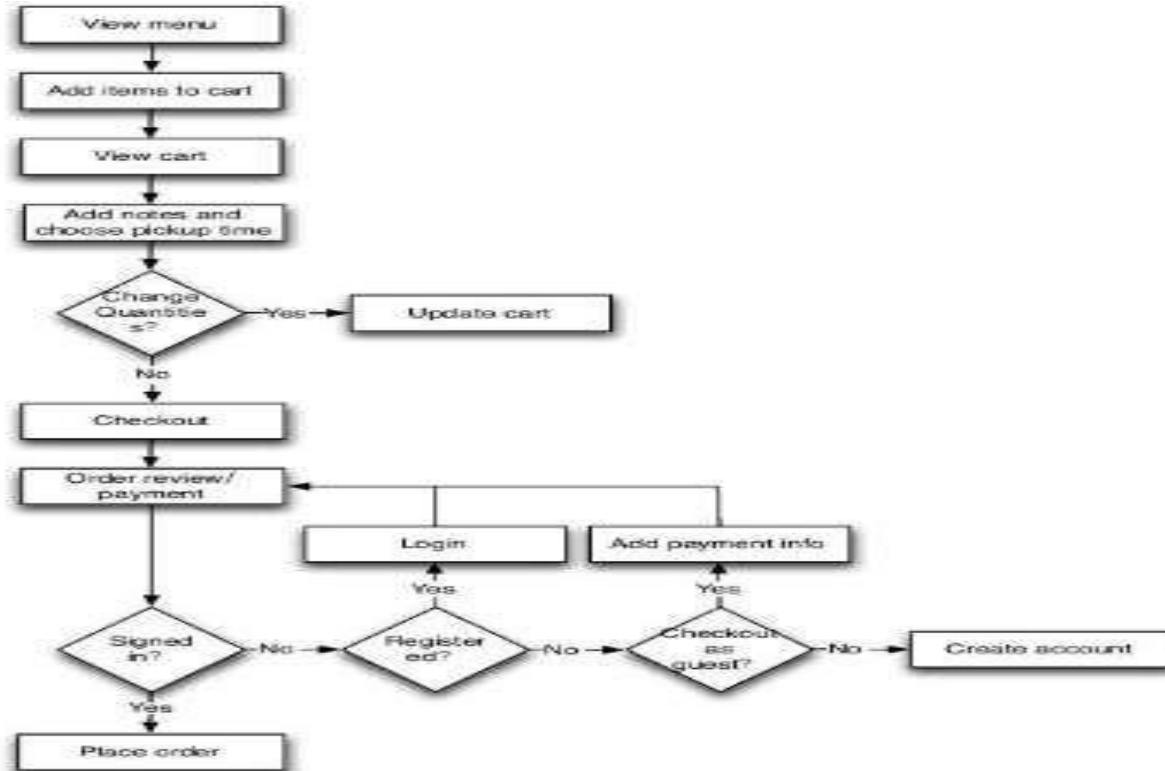
State Chart Diagram



Activity Diagram



Data Flow Diagram



Frontend

Technologies Used –

- **Angular**
- **Bootstrap**

Backend

Technologies Used –

- Java
- Spring Boot
- Spring Security
- JWT
- JPA
- JavaMailSender
- Spring Cloud Netflix
- MySQL

Backend

Microservices Used –

- Used Spring Cloud Netflix Eureka Server and Eureka Client

4 Microservices -

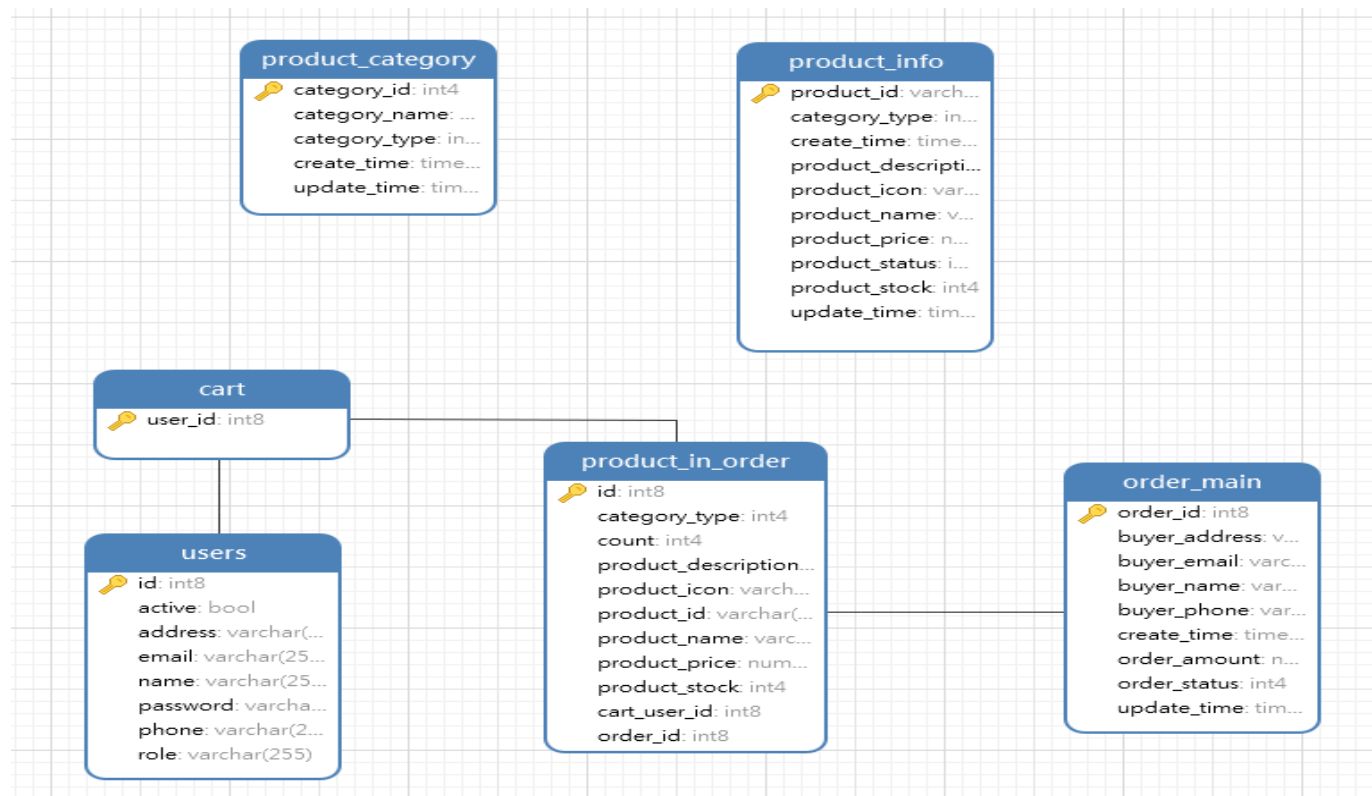
- Shop-for-home-server (server)
- Shop-for-home (microservice-1)
- Shop-for-home-discount-service (microservice-2)
- Shop-for-home-report-service (microservice-3)

Database

Technology Used –

- MySQL

Database Schema



All Products with different Category

ShopForHome

localhost:4200/product

Search

Cart

Wishlist

Orders


Rahul Logout

BooksCoffe MugsMouse PadsLuggage Tags

Get Whatever You Want!

Search

Sort By Price




Introduction to Spring Boot

Price : \$25.99

Stock : 100

[See more](#)

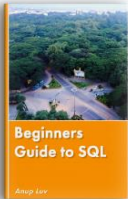


Advanced Techniques in JavaScript

Price : \$16.99

Stock : 100

[See more](#)




Beginners Guide to SQL


Price : \$14.99

Stock : 100


[See more](#)



JavaScript



Crash Course in



Advanced

Product Detail

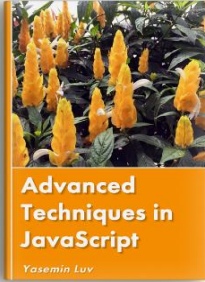
ShopForHome

localhost:4200/product/BOOK-TECH-1007

ShopForHomeBooksCoffe MugsMouse PadsLuggage Tags

CartWishlistOrdersRahulLogout

Product Detail



Advanced Techniques in JavaScript

Description : Learn JavaScript at your own pace. The author explains how the technology works in easy-to-understand language. This book includes working examples that you can apply to your own projects. Purchase the book and get started today!

Price : \$16.99

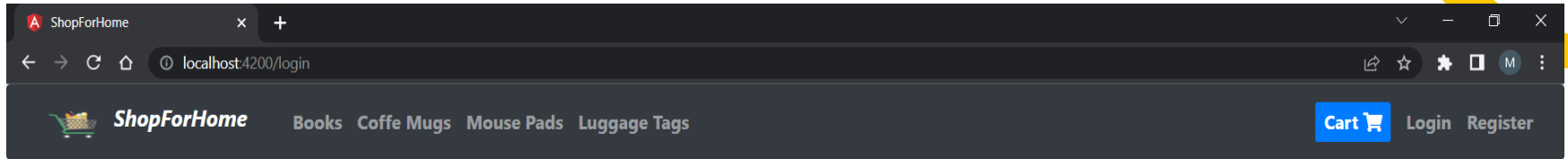
Stock : 100

Quantity :

Subtotal: \$16.99

Add To WishlistAdd To Cart

Login - for both Admin and User



Login

Email address

Password

☐ Remember me

[New User? click to Register](#)

Login



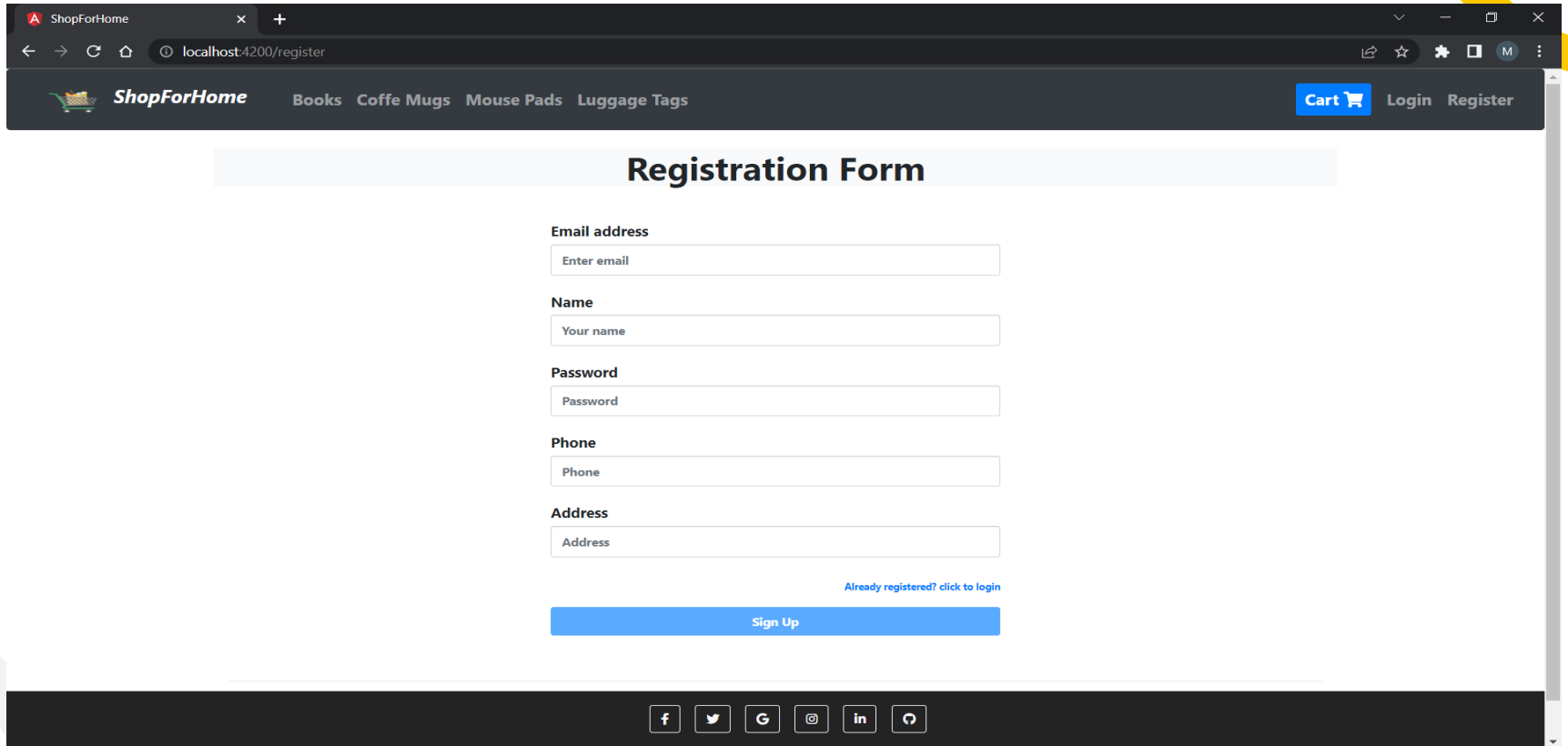
ShopForHome

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Register - User Functionalities



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/register'. The page features a dark navigation bar with the 'ShopForHome' logo, product categories (Books, Coffe Mugs, Mouse Pads, Luggage Tags), a 'Cart' button, and 'Login' and 'Register' links. The main content area is titled 'Registration Form' and contains five input fields: 'Email address' (placeholder: Enter email), 'Name' (placeholder: Your name), 'Password' (placeholder: Password), 'Phone' (placeholder: Phone), and 'Address' (placeholder: Address). A blue 'Sign Up' button is positioned below the form. A link 'Already registered? click to login' is located above the button. The footer contains social media icons for Facebook, Twitter, Google+, Instagram, LinkedIn, and YouTube.

ShopForHome

Books Coffe Mugs Mouse Pads Luggage Tags

Cart Login Register

Registration Form

Email address

Name

Password

Phone

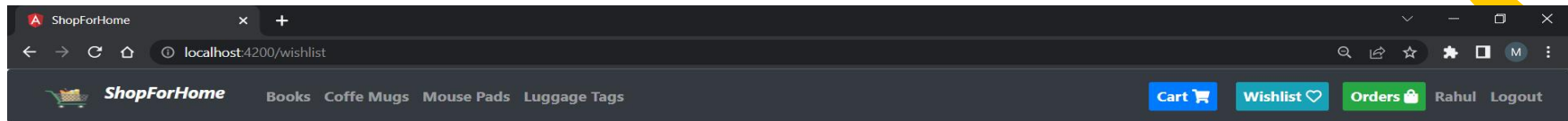
Address

[Already registered? click to login](#)









Sign Up

f t G @ in y

Wish list - User Functionalities



My WishList

Photo	Name	Price	Stock	Action
	Advanced Techniques in JavaScript	\$16.99	100	Remove 
	Luggage Tag - Beauty	\$16.99	100	Remove 
	Mouse Pad - Worthing	\$17.99	100	Remove 
	Coffee Mug - Tachyon	\$18.99	100	Remove 

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Cart - User Functionalities

ShopForHome


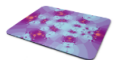


localhost:4200/cart

ShopForHome

BooksCoffe MugsMouse PadsLuggage Tags

CartWishlistOrdersRahulLogout

My Cart

Photo	Name	Price	Quantity	Subtotal	Action
	Luggage Tag - Beauty	\$16.99	<div>- 3 +</div>	\$50.97	<div>Remove</div>
	Mouse Pad - Worthing	\$17.99	<div>- 2 +</div>	\$35.98	<div>Remove</div>
	Coffee Mug - Tachyon	\$18.99	<div>- 6 +</div>	\$113.94	<div>Remove</div>
	Advanced Techniques in JavaScript	\$16.99	<div>- 1 +</div>	\$16.99	<div>Remove</div>

Total: \$217.88

Checkout

f

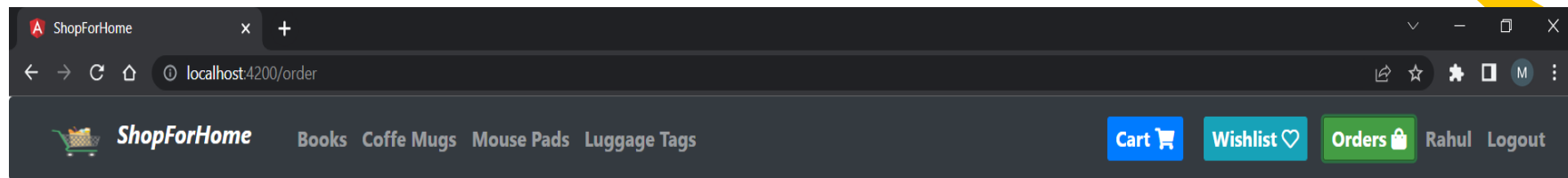
twitter

G

@

in

Orders - for both Admin and User



Orders

Order #	Customer Name	Customer Email	Customer Phone	Shipping Address	Total	Order Date	Status	Action
13	Rahul	rahul@gmail.com	9897594423	Agra	\$217.88	Jul 11, 2022	New	Show Cancel

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Order Detail - for both Admin and User

ShopForHome

Books Coffe Mugs Mouse Pads Luggage Tags



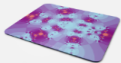

Cart






Wishlist

Orders

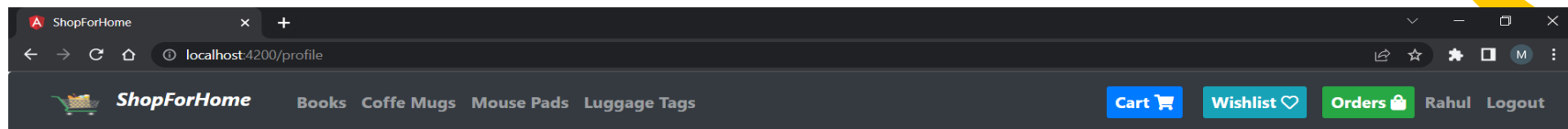
Rahul Logout

Order Detail

Photo	Name	Description	Price	Quantity	Subtotal
	Advanced Techniques in JavaScript	Learn JavaScript at your own pace. The author explains how the technology works in easy-to-understand language. This book includes working examples that you can apply to your own projects. Purchase the book and get started today!	\$16.99	1	\$16.99
	Coffee Mug - Tachyon	Do you love mathematics? If so, then you need this elegant coffee mug with an amazing fractal design. You don't have to worry about boring coffee mugs anymore. This coffee mug will be the topic of conversation in the office, guaranteed! Buy it now!	\$18.99	6	\$113.94
	Mouse Pad - Worthing	Fractal images are amazing! You can now own a mouse pad with a unique and amazing fractal. The mouse pad is made of a durable and smooth material. Your mouse will easily glide across the mouse pad. This mouse pad will brighten your workspace. Buy it now!	\$17.99	2	\$35.98
	Luggage Tag - Beauty	This luggage tag will help you identify your luggage. The luggage tag is very unique and it will stand out from the crowd. The luggage tag is created out of a rugged and durable plastic. Buy this luggage tag now to make it easy to identify your luggage!	\$16.99	3	\$50.97
					Total : \$217.88



Edit Profile – for both Admin and User



Edit Profile

Email address

rahul@gmail.com

Name

Rahul

Password

Password

Phone

9897594420

Address

Agra

Update



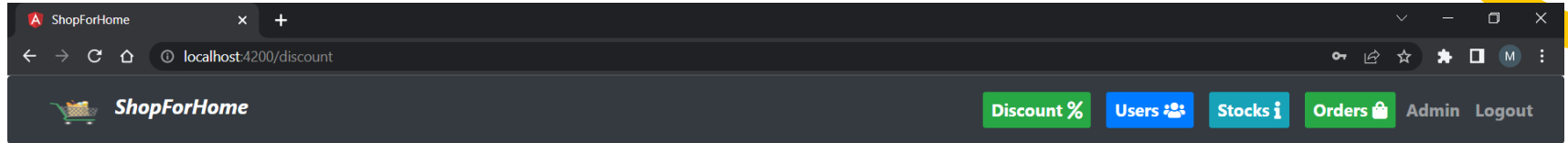
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Discount - Admin Functionalities



Discount Coupons

Search for Coupons ...

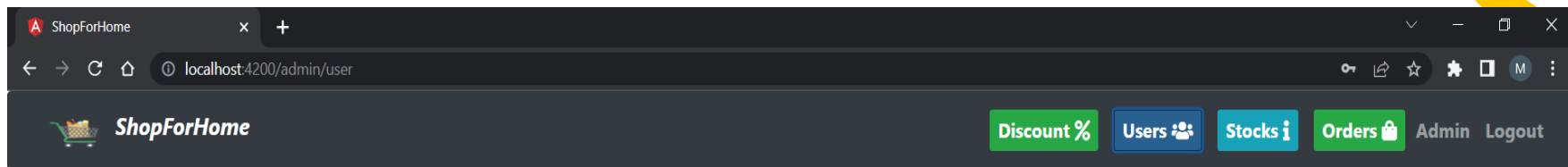
HAPPYFRIDAY

Couponcode	Action
HAPPYFRIDAY	<input type="button" value="Remove"/>
HAPPYNEWYEAR	<input type="button" value="Remove"/>
SALE	<input type="button" value="Remove"/>

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Users - Admin Functionalities



Users

Search for Users ...

Email	Name	Phone	Role	Action
rahul@gmail.com	Rahul	9897594423	ROLE_CUSTOMER	<input type="button" value="Add Admin"/> <input type="button" value="Remove User"/>
admin@gmail.com	Admin	1234567890	ROLE_MANAGER	<input type="button" value="Remove Admin"/>

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Products - Admin Functionalities

ShopForHome

localhost:4200/seller/product

Discount %Users Stocks OrdersAdminLogout





Products

Add Product +

Choose File No file chosen

Upload Products Download Report


Search for products ... Search

Photo	Code	Name	Type	Description	Price	Stock	Status	Action	Mail
	BOOK-TECH-1000	Crash Course in Python	Books	Learn Python at your own pace. The author explains how the technology works in easy-to-understand language. This book includes working examples that you can apply to your own projects. Purchase the book and get started today!	\$14.99	100	Available	Edit Remove	Email
	BOOK-TECH-1001	Become a Guru in JavaScript	Books	Learn JavaScript at your own pace. The author explains how the technology works in easy-to-understand language. This book includes working examples that you can apply to your own projects. Purchase the book and get started today!	\$20.99	100	Available	Edit Remove	Email
	BOOK-TECH-1002	Exploring Vue.js	Books	Learn Vue.js at your own pace. The author explains how the technology works in easy-to-understand language. This book includes working examples that you can apply to your own projects. Purchase the book and get started today!	\$14.99	100	Available	Edit Remove	Email
	BOOK-TECH-1003	Advanced Techniques in Big Data	Books	Learn Big Data at your own pace. The author explains how the technology works in easy-to-understand language. This book includes working examples that you can apply to your own projects. Purchase the book and get started today!	\$13.99	100	Available	Edit Remove	Email

Edit Product - Admin Functionalities

ShopForHome

localhost:4200/seller/product/BOOK-TECH-1000/edit

 ShopForHome

Discount %

Users

Stocks

Orders

Admin

Logout

Edit Product

Code

BOOK-TECH-1000

Photo Link

assets/images/products/books/book-luv2code-1000.png

Name

Crash Course in Python

Category

Books

Description

Learn Python at your own pace. The author explains how the technology works in easy-to-understand language. This book

Price

14.99

Stock

100

Status

Available

Submit

New Product - Admin Functionalities

ShopForHome

localhost:4200/seller/product/new

Discount %Users Stocks OrdersAdminLogout

New Product

Code

Product Code

Photo Link

Photo

Name

Product Name

Category

Books

Description

Product Description

Price

20

Stock

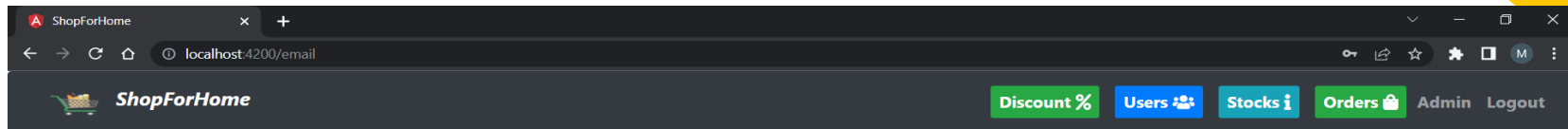
100

Status

Available

Submit

Email – Admin Functionalities



Contact us

We're open for any suggestion or just to have a chat

Address : Shop For Home Email : shopForHome@gmail.com

Phone : + 1235 2355 98

Create a message here

Send Message

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Conclusion

- **This Project is useful for those who wants to grow their business on online.**
- **The businessman can easily manage their business using this project.**

THANKS

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