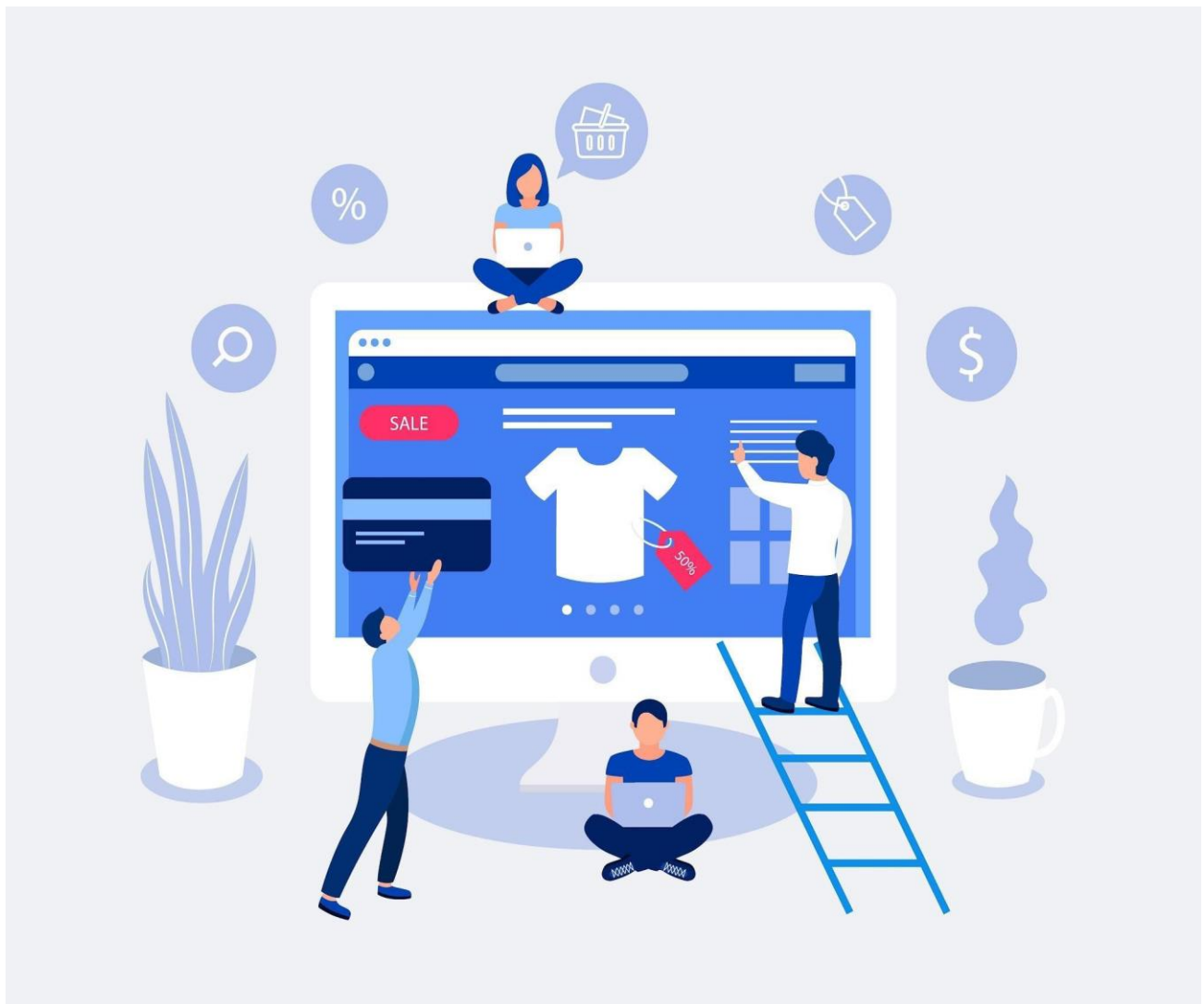


SPRINGBOOT ANGULAR PROJECT

E-Commerce Website



PROJECT MEMBERS

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GUIDED BY

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ABSTRACT

- ❖ E-Commerce, also known as electronic commerce or internet commerce, is an activity of buying and selling goods or services over the internet or open networks.
- ❖ These business transactions occur either as business-to-business (B2B), business-to-consumer (B2C), consumer-to-consumer or consumer-to-business.
- ❖ It is your bustling city center or brick-and-mortar shop translated into zeroes and ones on the internet superhighway.

INTODUCTION

- ❖ An eCommerce website is an information technology method in which traders,businesses/distributors/market ers can sell products/services and the customer can purchase on that website electronically by using the internet on the mobile and computer.
- ❖ It means an e-commerce website is an online shop. e means electronic. Commerce means business.Website means the group of HTML web pages and that is created to market/sell information/product/services.

❖ When you purchase a mobile phone /shoes/software on any website such as Amazon, Flipkart, etc. and pay through credit/debit card/payment wallet and then the seller delivers the product through courier or post mail on your location then it's called e-commerce. In this case, Flipkart is an online store website or an e-commerce website.

OBJECTIVE

- The advancement of the digital era has led to online booking systems, because of obvious reasons. As a user, we want our shopping to be done digitally.
- The main idea is to implement a proper process to system.
- The existing system contains many operations like user registration, search and order etc..
- The system can maintain computerised records without redundant entries of registration.

Software & Hardware Used

Software Requirements :

- Operating System : Windows 7 or Windows 10
- Language : Java
- IDE : Spring Boot, Postman
- Backend : Microsoft MySQL server
- Server : Tomcat 8.5
- Frontend : visual studio code, bootstrap, Angular, CSS, HTML

Hardware Requirements :

- CPU : Intel Core i3 Processor
- RAM : 4GB or above
- Hard Disk : 20 GB hard disk space or minimum

Proposed System

- The E-Commerce Website facilitates the user to login and view products and then purchase. The aim of case study is to design and develop a database maintaining the records of different products and users.
- This is a web-based application that permits the users to view and purchase products.

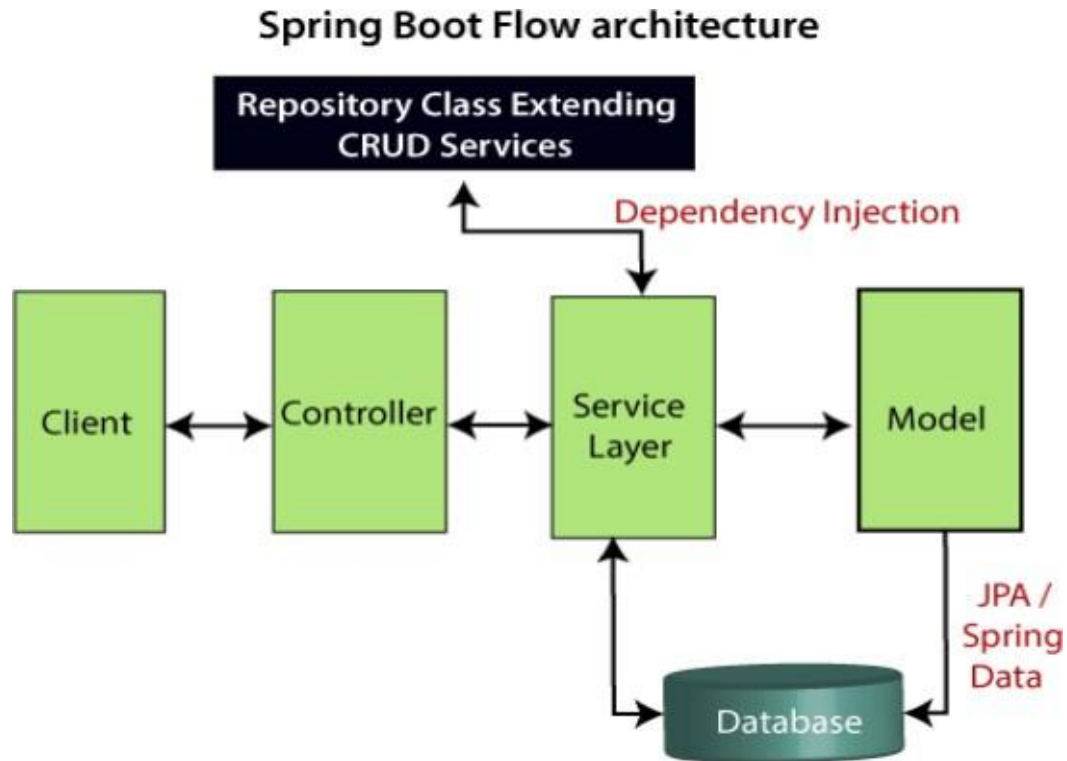
Back-End

- Spring Boot
- Spring Data JPA
- Hibernate
- Spring Boot Web
- MySQL Database

About Back-End

- There are mainly 4 operations performed by admin.
 - Ex. Insert, Update, Retrieve/Fetch, Delete.
- These operation will be performed using the spring boot framework and spring boot web , spring data Jpa , and hibernate.
- MySql database is used for the connectivity. it is connected to the java and database.

About Back-End



- ❖ **UIController** - In Spring Boot, the User Controller class is responsible for processing incoming requests, preparing a model, and returning the view to be rendered as a response.
- ❖ **Service - Components** are the class file which contains @Service annotation.

These class files are used to write business logic in a different layer.

- ❖ Entity – The entities are the persistence object stores as a record entry database. An application entity manages instances. The set of entity classes represents the data contained within a single data store.
- ❖ Repository - Repository is a specialization of @Component annotation which is used to indicate that the class provides the mechanism for storage, retrieval, update, delete and search operation on objects. Repository is directly connected with the database and then it can return to the repository and response to the service and it can return to the controller and then response send to the client.

About Back-End

1. Accounts

Fields	Types
account_id	int
account_email	varchar(50)
account_password	varchar(15)
account_phone	varchar(255)
account_created_date	datetime(6)
first_name	varchar(255)
last_name	varchar(255)
address	varchar(255)

2. Categories

Fields	Types
product_id	int
category	varchar(255)
Material	varchar(255)
gender	varchar(255)

product_about	varchar(255)
product_brand	varchar(255)
product_color	varchar(255)
product_flavour	varchar(255)
product_name	varchar(255)
product_price	float
product_quantity	int
product_shelflife	varchar(255)
product_size	varchar(255)
product_specifications	varchar(255)
product_type	varchar(255)
product_weight	varchar(255)
link	varchar(255)

3. customer

Fields	Types
cproduct_id	int
caccid	int

category	varchar(255)
cmail_phonenumber	varchar(255)
gender	varchar(255)
img_link	varchar(255)
material	varchar(255)
product_about	varchar(255)
product_brand	varchar(255)
product_color	varchar(255)
product_flavour	varchar(255)
product_name	varchar(255)
product_price	float
product_quantity	int
product_shelflife	varchar(255)
product_size	varchar(255)
product_specifications	varchar(255)
product_type	varchar(255)
product_weight	varchar(255)
purchase_date	datetime(6)
total_amount	float

4. categories

Fields	Types
cart_id	int
account_id	int
img_link	varchar(255)
product_brand	varchar(255)
product_id	int
product_name	varchar(255)
product_price	varchar(255)

Advantages

- User friendly .
- Eliminates the operating cost.
- Drastic reduction in manual tasks.
- Ability to scaling up and down quickly,also unlimited “Shelf-space”.
- Low cost,flexibility

Snapshots Of Back-End

1. Save Products

The image shows a Postman interface with a POST request to `http://localhost:8290/saveproducts`. The request body is a JSON object with the following fields:

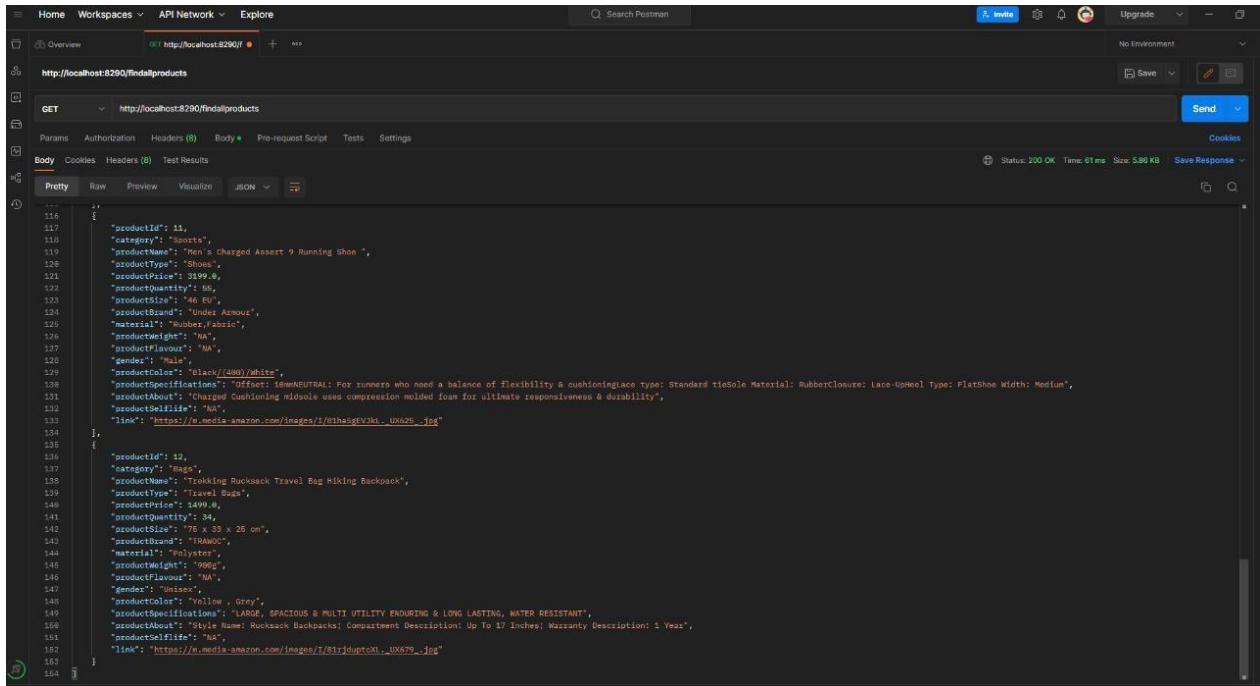
```
1 {
2   "category": "Bags",
3   "productName": "Trekking Rucksack Travel Bag Hiking Backpack",
4   "productType": "Travel Bags",
5   "productPrice": 1499.0,
6   "productQuantity": 34,
7   "productSize": "75 x 33 x 26 cm",
8   "productBrand": "TRANOC",
9   "material": "Polyester",
10  "productWeight": "900g",
11  "productFlavour": "NA",
12  "gender": "Unisex",
13  "productColor": "Yellow , Gray",
14  "productSpecifications": "LARGE, SPACIOUS & MULTI-UTILITY ENDURING & LONG-LASTING, WATER RESISTANT",
15  "productAbout": "Style Name: Rucksack Backpacks; Compartment Description: Up To 17 Inches; Warranty Description: 1 Year",
16  "productSelflife": "NA",
17  "link": "https://m.media-amazon.com/images/I/81rjdutpckL._UX679_.jpg"
18 }
19
20
21
```

The response is a JSON object with the following fields:

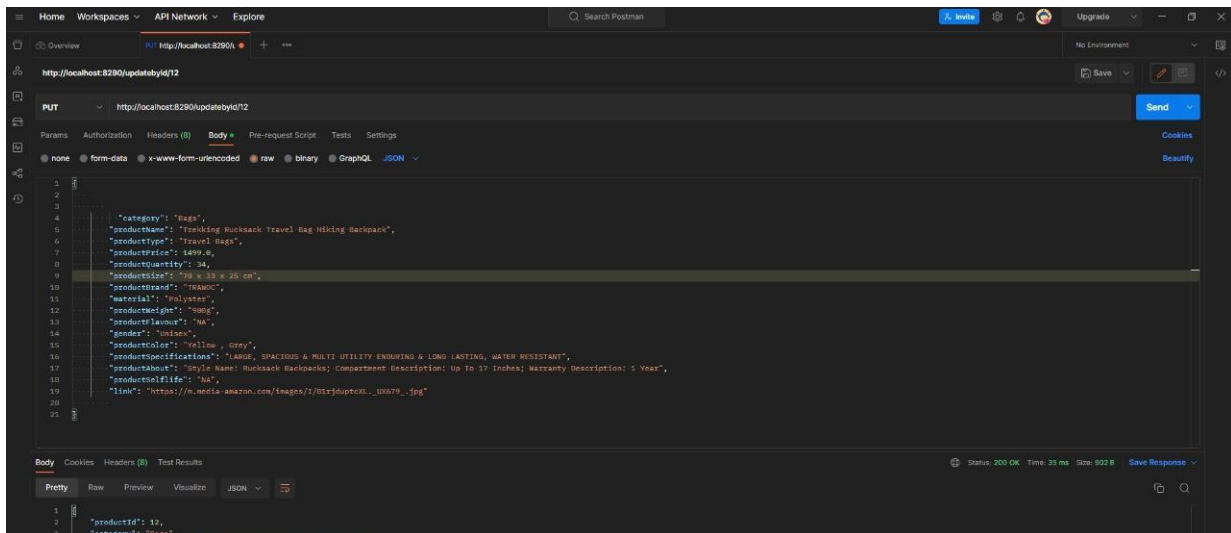
```
1 {
2   "productId": 12,
3   "category": "Bags",
4   "productName": "Trekking Rucksack Travel Bag Hiking Backpack",
5   "productType": "Travel Bags",
6   "productPrice": 1499.0,
7   "productQuantity": 34,
8   "productSize": "75 x 33 x 26 cm",
9   "productBrand": "TRANOC",
10  "material": "Polyester",
11  "productWeight": "900g",
12  "productFlavour": "NA",
13  "gender": "Unisex",

```

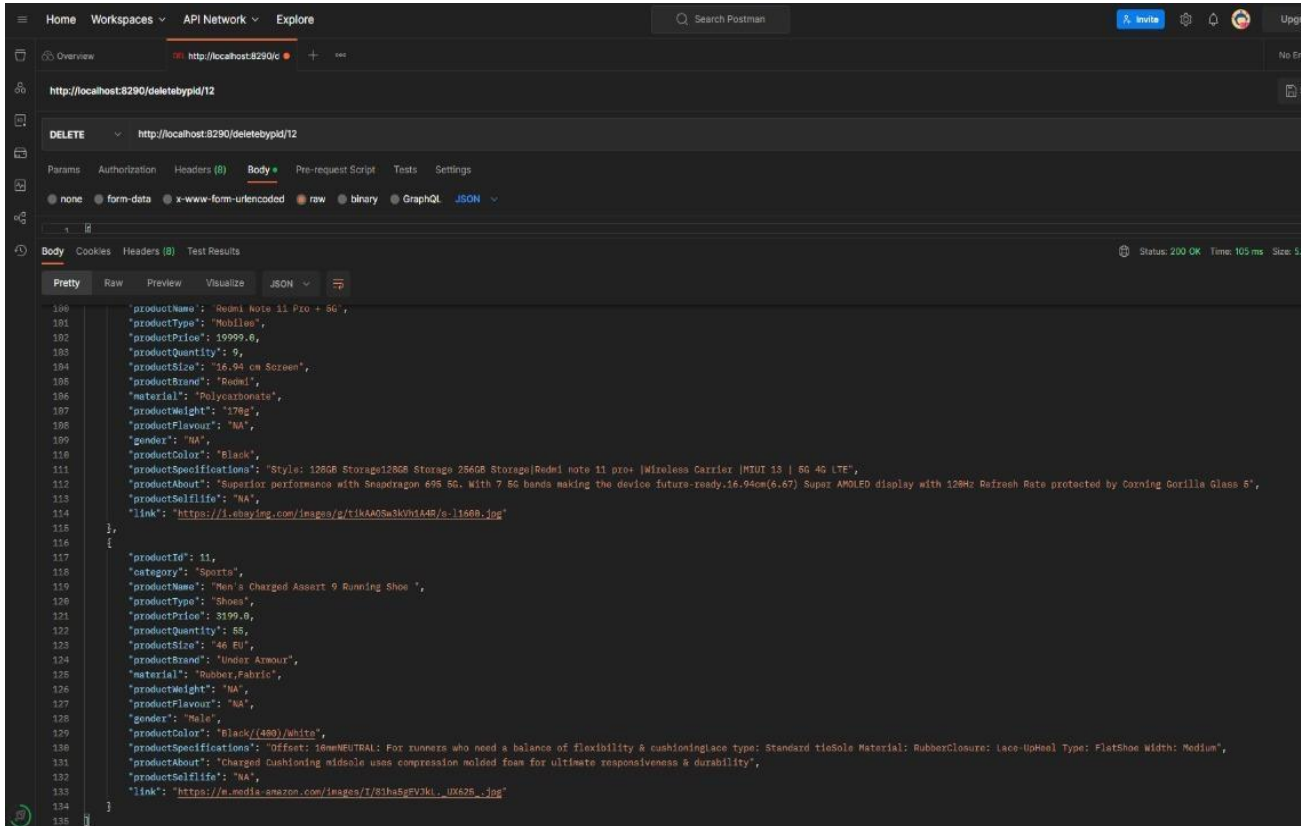
2. Find All Products



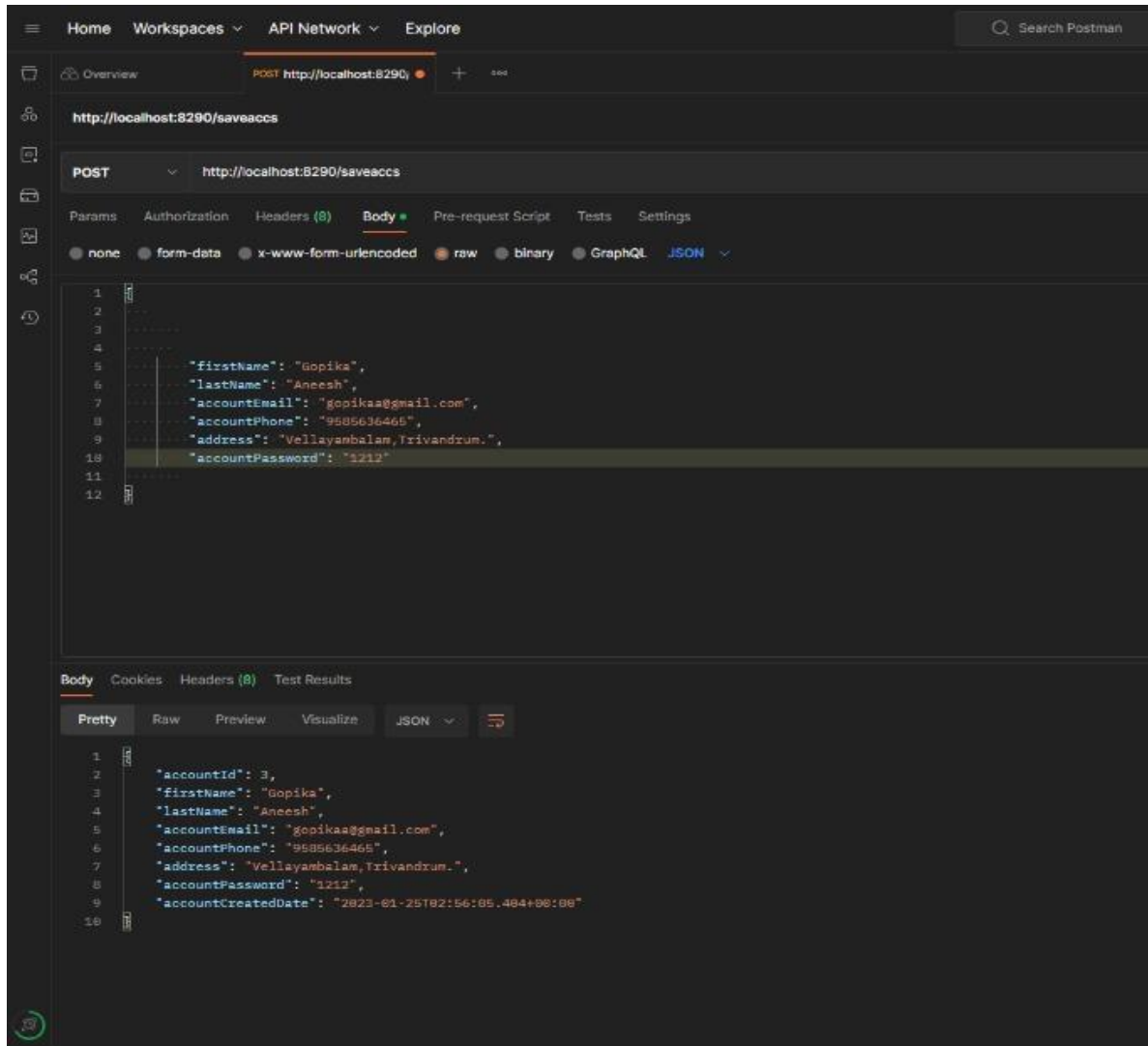
3. Update Products



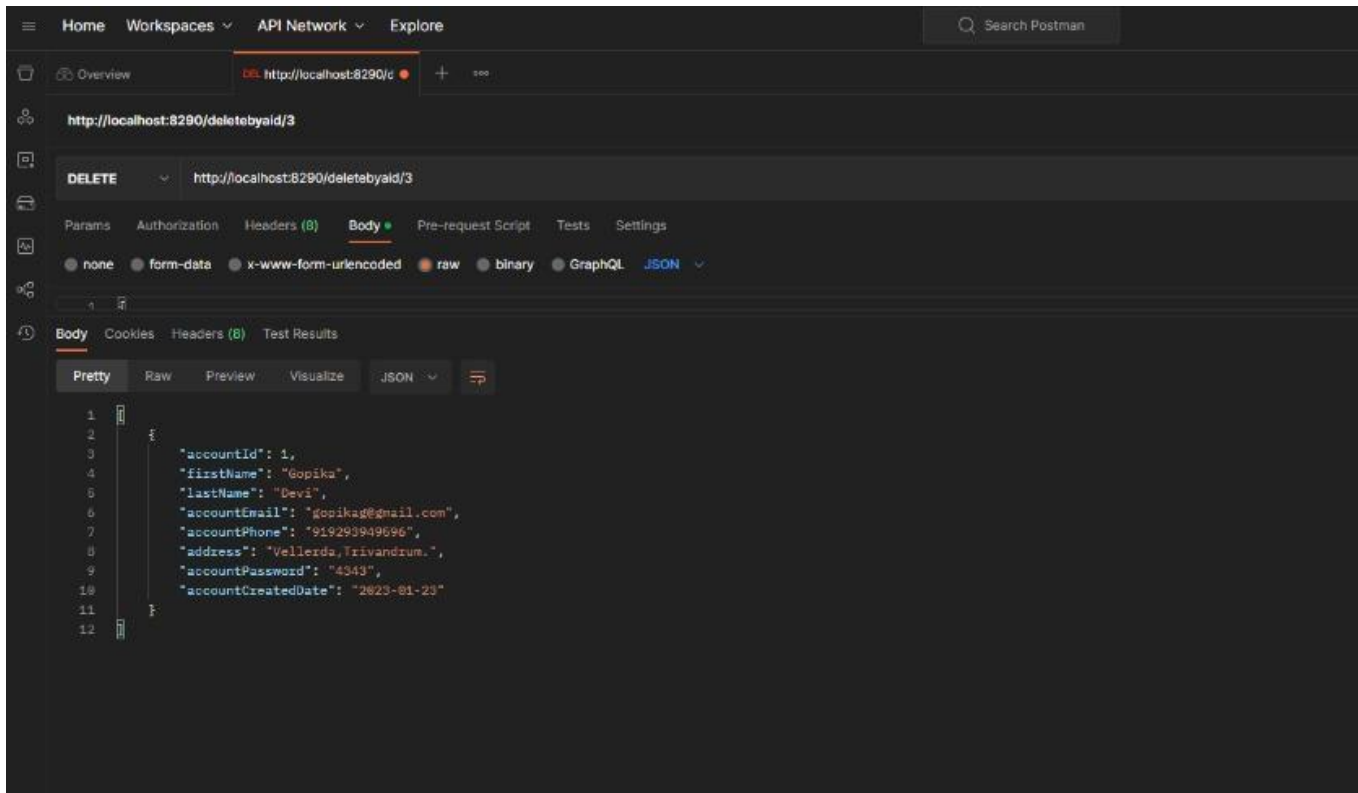
4. Delete Products



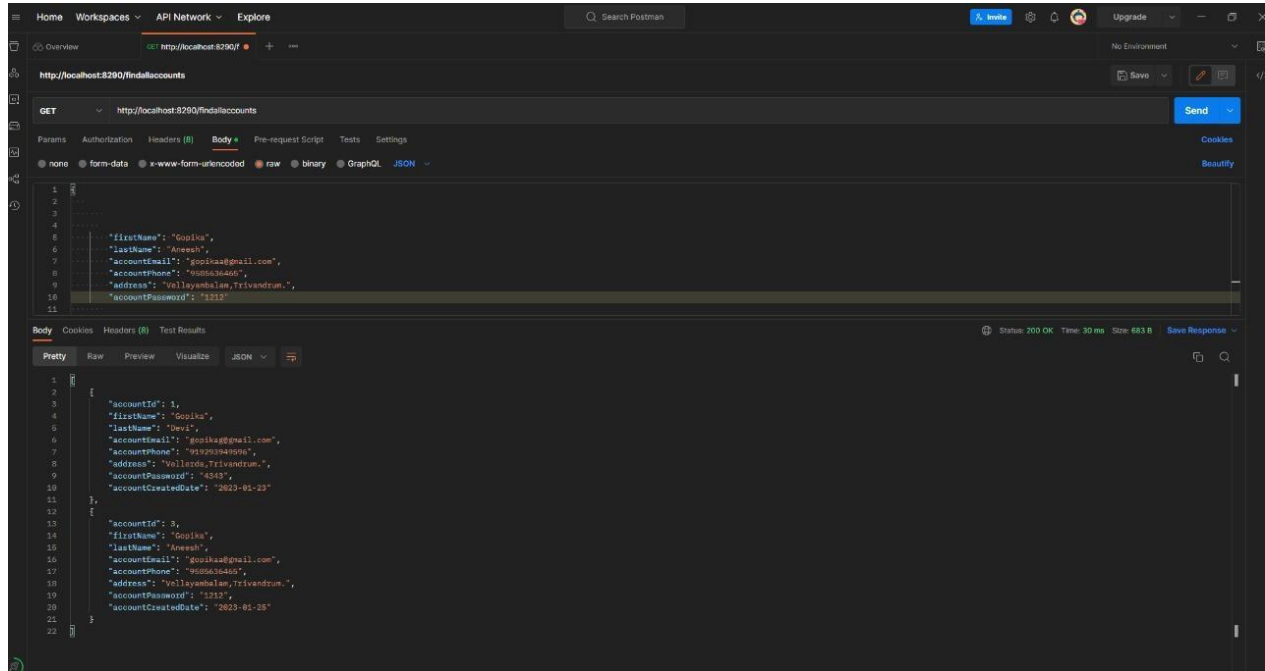
5. Save User Informations



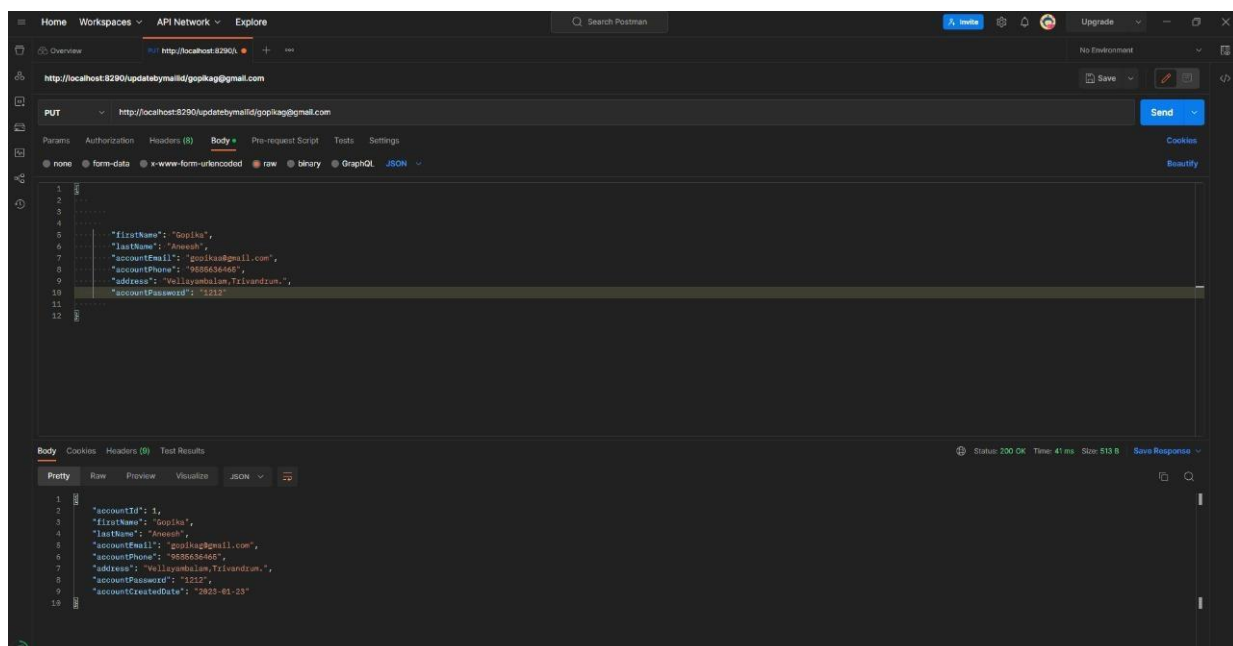
6. Delete User Information



7. Find All Accounts



8. Update Accounts Details



Front-End

- Angular
- Bootstrap
- HTML
- CSS
- Typescript

About Front-End

- **Components**

1. Admin

- adminfind
- adminfooter
- adminlogin
- adminlogout
- adminmenu
- adminsearch
- adminwelcome
- list-acc
- listusers
- sold

2. User

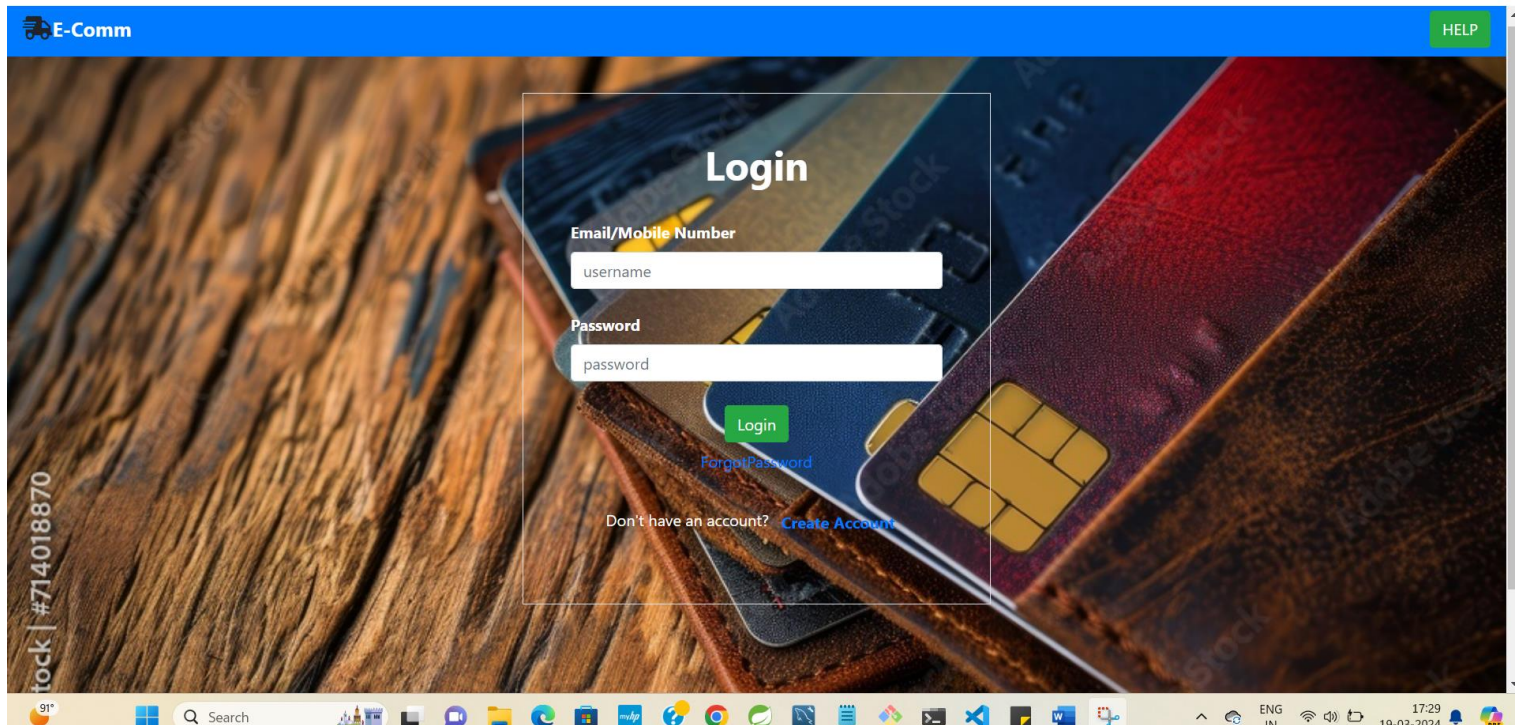
- createaccount
- login
- logout
- menu
- orders
- profile
- search
- user
- dashboard
- buy
- cart
- purchase
- footer
- buynow

Working of Front-End

- ❖ E-Commerce Website implements the MVC(Model-View-Control)Architecture. As View, Angular-8 with routing is used. For the backend, Spring Boot v4.16.1 is used.
- ❖ Java Persistence API (JPA) is used to write the Business Logic. REST Api's are written to communicate between server ports
(Angular->port:4200, SpringBoot ->port:8290, MySql -> port:3306)
- ❖ The project consists of create and login page, when the user navigates to localhost:4200. After creating and logging in as a user, they can search for products, view the product and then purchase.

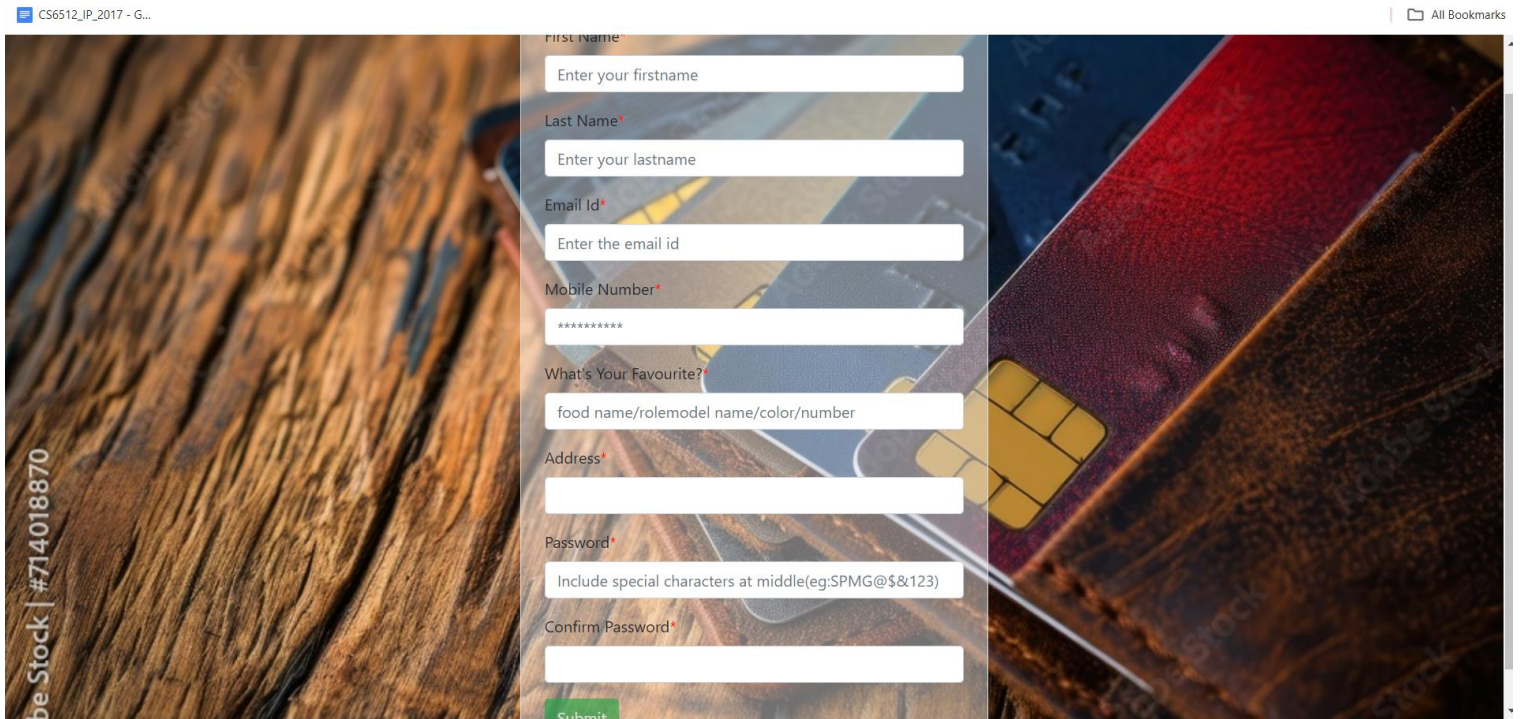
Snapshots Of Front-End

1. User Login Page



2. User Create Account Page

CS6512_IP_2017 - G... All Bookmarks



The image shows a web browser window with a user registration form. The background is a collage of a wooden texture on the left and a close-up of a SIM card on the right. The form is centered and contains several input fields with red asterisks indicating required fields. A green 'Submit' button is at the bottom.

be Stock | #714018870

First Name*

Enter your firstname

Last Name*

Enter your lastname

Email Id*

Enter the email id

Mobile Number*

What's Your Favourite?*

food name/rolemodel name/color/number

Address*

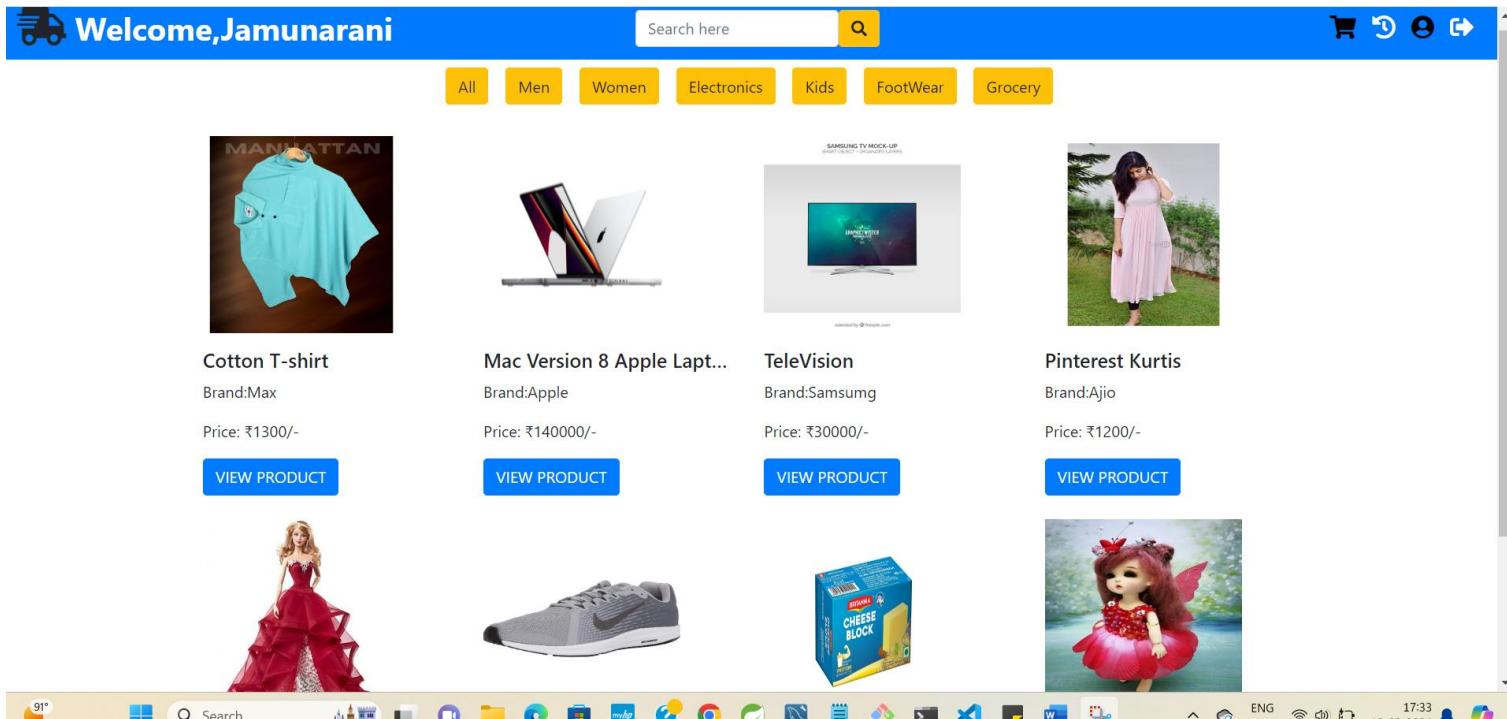
Password*

Include special characters at middle(eg:SPMG@\$&123)

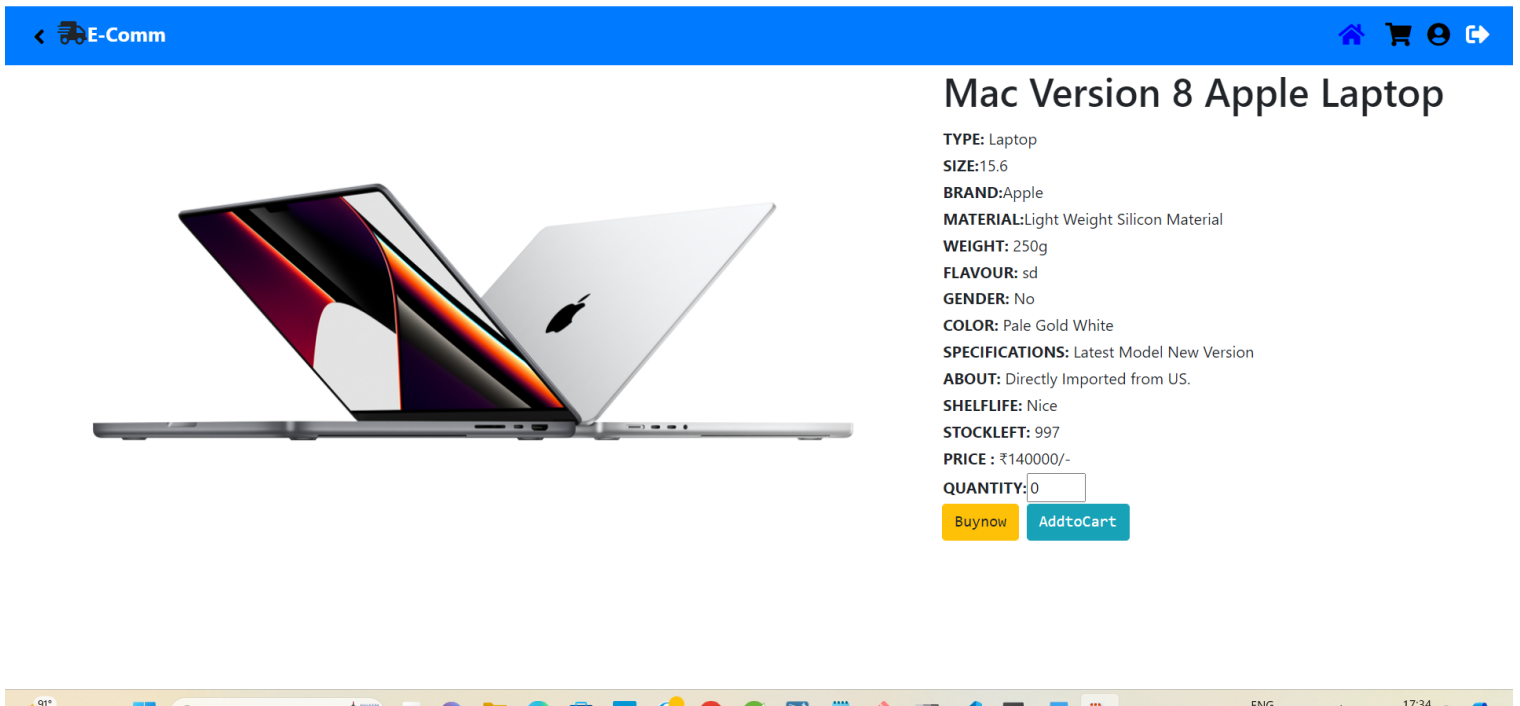
Confirm Password*

Submit

3. Dashboard Page



4. View product Page



5. Buy Product Page

<  E-Comm



Mac Version 8 Apple Laptop

(click profile to change your delivery address)

Deliver To

Jamunarani V

A Street,GJHJ,890876

Mobile:6382577850

ABOUT: Directly Imported from US.

PRICE:₹140000/-

QUANTITY:1 X 140000

TOTAL AMOUNT :₹140000/-

SELECT YOUR PAYMENT OPTION:

Place Order

91°



Search



ENG

17:35


6. Confirm Order Page

[CLICK HERE TO CONTINUE](#)

THANK YOU FOR YOUR ORDER. WE HOPE TO SEE YOU AGAIN SOON!!!



7. User Profile Page

 E-Comm

First Name

Jamunarani

Last Name

V

Email Id

vjamunarani6@gmail.com

Mobile Number

6382577850

Address

A Street,GJHJ,890876

Password

.....

Confirm Password


91°

Search


ENG

17:37

8.View Purchase History Page

E-Comm	
	Cotton T-shirt
	BRAND:Max
	QUANTITY:1
	PURCHASE DATE:Mar 19, 2024
	MOBILE NUMBER:6382577850
	TOTALAMOUNT:₹1300/-

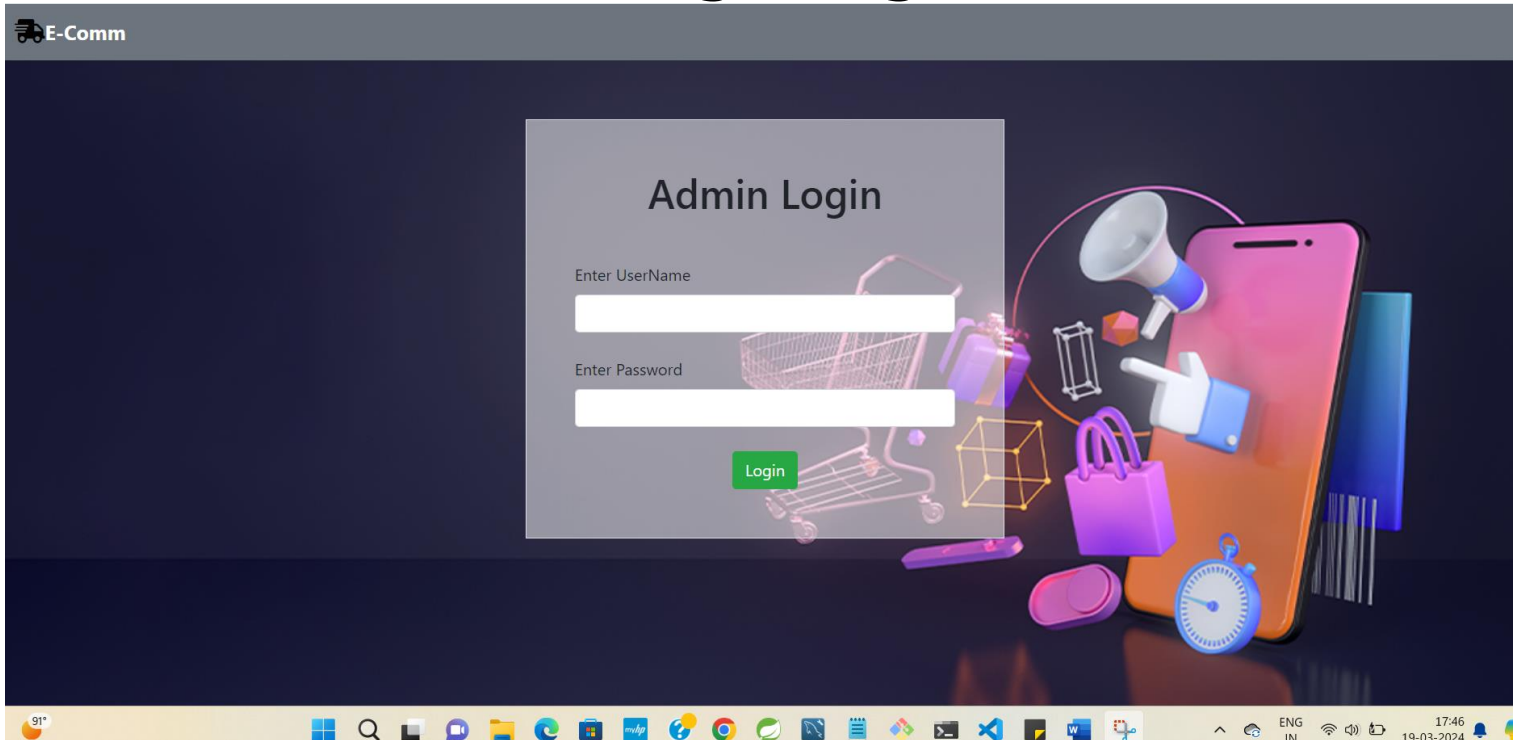
9. Add Cart Page

E-Comm	
	Mac Version 8 Apple Laptop
	BRAND:Apple
	PRICE:₹140000/-
	QUANTITY: <input type="text" value="1"/>
	<button>REMOVE</button>

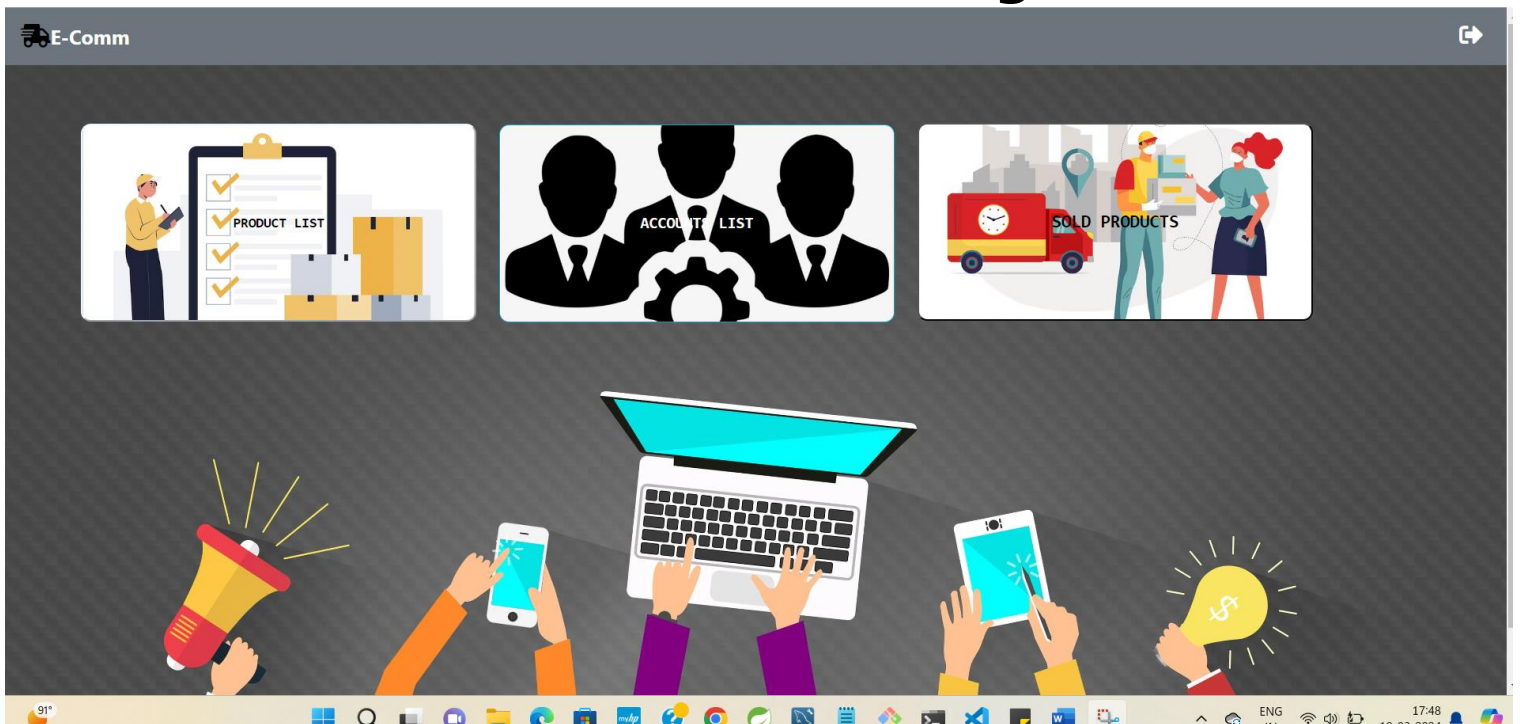
TOTAL AMOUNT:₹140000/-

BUY

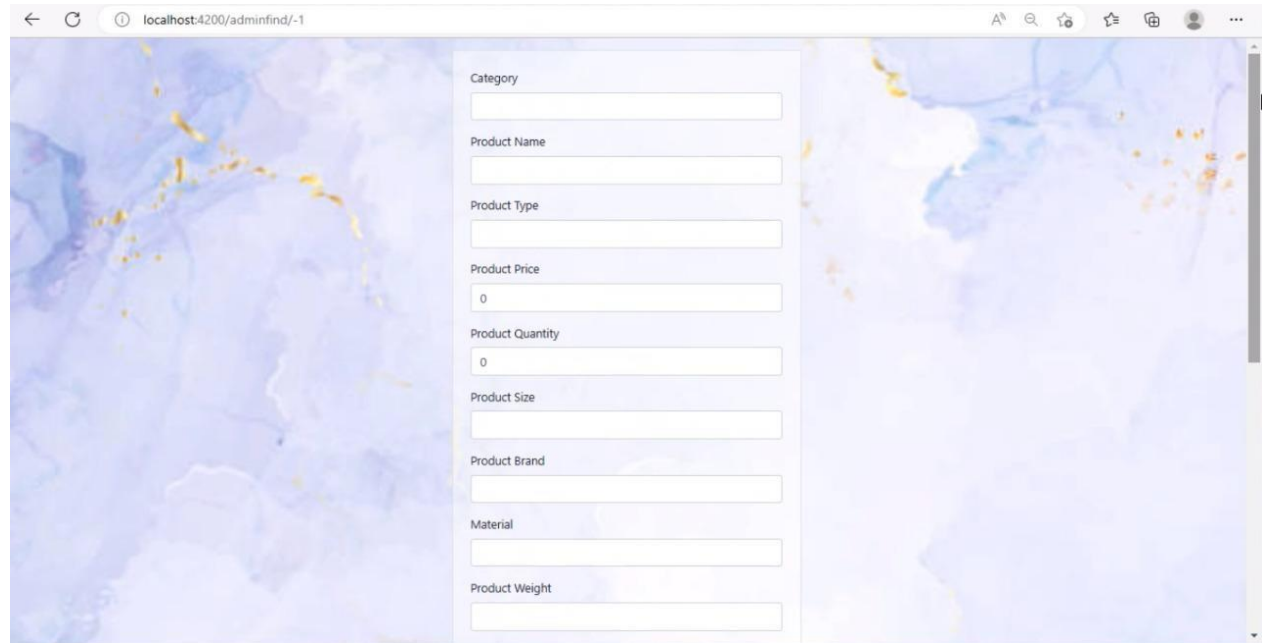
10. Admin Login Page



11. Admin Welcome Page



12. Add Products Page



A screenshot of a web browser showing the 'Add Products' form. The browser's address bar displays 'localhost:4200/adminfind/-1'. The form is set against a light blue background with a faint world map. It contains several input fields for product details: Category, Product Name, Product Type, Product Price (with '0' entered), Product Quantity (with '0' entered), Product Size, Product Brand, Material, and Product Weight.

Category

Product Name

Product Type

Product Price

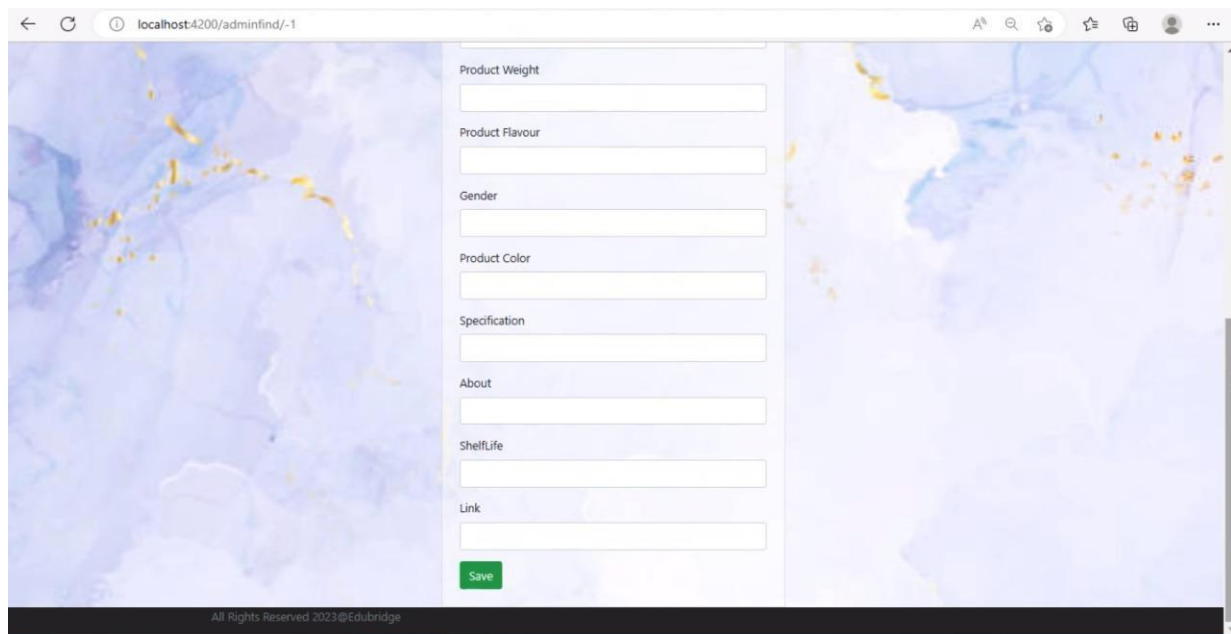
Product Quantity

Product Size

Product Brand

Material

Product Weight



A second screenshot of the 'Add Products' form, showing the bottom section. It continues with input fields for Product Weight, Product Flavour, Gender, Product Color, Specification, About, ShelfLife, and Link. A green 'Save' button is located at the bottom of the form. The footer of the page reads 'All Rights Reserved 2023@Edubridge'.

Product Weight

Product Flavour

Gender

Product Color

Specification







About

ShelfLife

Link

All Rights Reserved 2023@Edubridge

13. Users list Page

E-Comm						
Id	FirstName	LastName	Email	MobileNumber	Address	Delete
1	Jamunarani	V	vjamunarani6@gmail.com	6382577850	A Street,GJHJ,890876	
2	Riya	Sahu	riyasahu@gmail.com	9545586594	23, B, 400062	
4	Geetha	Anjali	geethaj@gmail.com	6789034567	plot no 2,Chennai-600048.	
5	Brindha	Saju	brindhasaju@gmail.com	7890567889	A Street, q, Chn-789678.	
6	Teena	Josh	teenajohn@gmail.com	6789056789	34,Blue Town, Shangai-78907.	
7	Pinky	Gulab	pinkygulab@gmail.com	9673456779	21,HJK,Bglr-607301.	













14. Update Page

E-Comm

Search here

Add

Id	Category	Name	Type	Price	Quantity	Size	Brand	Material	Weight	Flavor	Gender	Color	Specification	About	ShelfLife	Link	Upd
1	Shirt	Cotton T-shirt	Fabric	₹1300/-	94	M	Max	Cotton	12	sd	Male	Blue	XSD	Good	Nice		
2	Electronics	Mac Version 8 Apple Laptop	Laptop	₹140000/-	996	15.6	Apple	Light Weight Silicon Material	250g	sd	No	Pale Gold White	Latest Model New Version	Directly Imported from US.	Nice		
3	Electronics	TeleVision	Entertainment	₹30000/-	20	14.7	Samsung	Full HD LED Light	1000g	sd	No	Black	Latest Model New Version	Directly Imported from US.	Nice		
4	Women	Pinterest Kurtis	Kurtis	₹1200/-	119	XS	Ajio	Cotton and Fur	50g	C	Female	pink	New Model pinterest inspired Kurtis	Directly Imported from Korea	Nice		
5	Kids	Barbie Doll	Toys	₹500/-	100	30cm	Barbie	Silicon	70g	No	female	Pink	This is specially made of Silicon	Directly Imported from US.	Nice		

91°

ENG

17:50

Conclusion

- We have successfully implemented the site 'E-Comm', with the help of various links and tools. We have been able to provide a site which will be live soon and running on the web.
- We have succeeded in our attempt to take care of the needs of both the user as well as the administrator. Finally, we hope that this will go a long way in popularizing.