

PHASE-6-CAPSTONE PROJECT MEDICARE (DOMAIN-HEALTH CARE)

Developer Name : Garima Kumar
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Project Name : Medicare (Domain: Health Care)
Phase 6- Project : Full Stack Java Developer Capstone Project

Date of Submission : 15th July 2023

GiHub Repository link:

<https://github.com/garimakumar/Capstone-Project-MEDICARE-Final-Project.git>

Project Objective & Background:

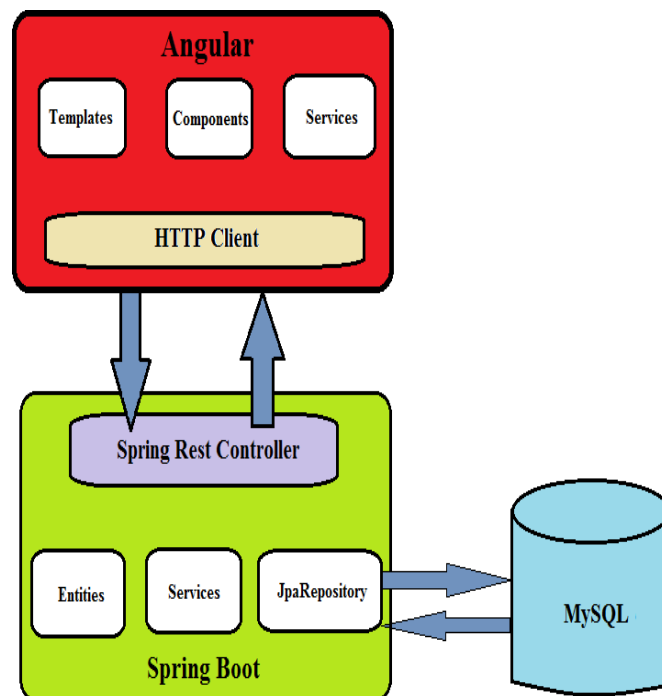
To develop a dynamic and responsive web application for online ordering of medicines through Medicare Application. Medicare is a company that supplies medicines and a couple of other healthcare essentials at an affordable price. It was established in 2012 in Delhi, India.

Product Features:

1. Medicare application is made specifically to the required business needs. It is completely flexible and scalable to the business demands and growth.
2. The whole application is a Single Page Application that is more efficient in terms of processing and provides a seamless user experience.
3. The application web pages are responsive and secure.
4. The application has one Administrator. The Admin Portal features are:
 - The admin can login with username and password in admin portal.
 - The admin can add or remove medicine details.
 - Edit medicine details like name, price etc., to keep the product information updated with current prices.
 - Enable or disable the medicines.
5. The application has a User portal. The User Portal features are:
 - Sign up and login with username and password.
 - The User can maintain the record of activities.
 - Search for products based on the search keyword.

- Apply filters and sort result based on different categories.
- Add the product to cart and customize the purchase at the end.
- Experience a seamless payment experience.
- Receive an order summary once the payment is successful.

Core Concepts Used and Project Architecture:



- Angular framework for frontend UI's.
- Spring boot framework for backend .
- MySQL Database for storing all the data.
- HTML, Bootstrap 4.
- Typescript.
- Spring Security and JWT Authentication.
- Spring Data JPA, Spring Web.

Sprint Planning and Task Achieved:

Number of sprint planned = 4.

Sprint 1:

1. Planned to develop backend code for project. Generated Spring boot project from <http://start.spring.io>.
2. Planned to develop the rest api's to create Admin and User. Used spring security and Jwt authentication to achieve this task.
3. Planned to develop api's for admin portal to add, update, delete, enable or disable products.
4. Successfully developed and tested the admin portal rest api's using Postman software.
5. Planned to develop frontend code for project. Generated Angular project using angular cli.
6. Planned to develop login UI for admin and user portal.
Successfully developed the UI's for admin and user.
7. Planned to develop admin dashboard that enables admin to perform the required functionalities. Successfully developed the admin dashboard.

Sprint 2:

1. Planned to develop home page of the application. Successfully developed the home UI of the application.
2. Planned to develop Sign up UI for users. Developed successfully.
3. Planned to develop UI for search product based on keyword, show product based on category. Successfully developed the UI's for user portal feature.
4. Planned to develop user home UI. Developed successfully.

Sprint 3:

1. Planned to develop add to cart feature UI in user portal.
Developed successfully.

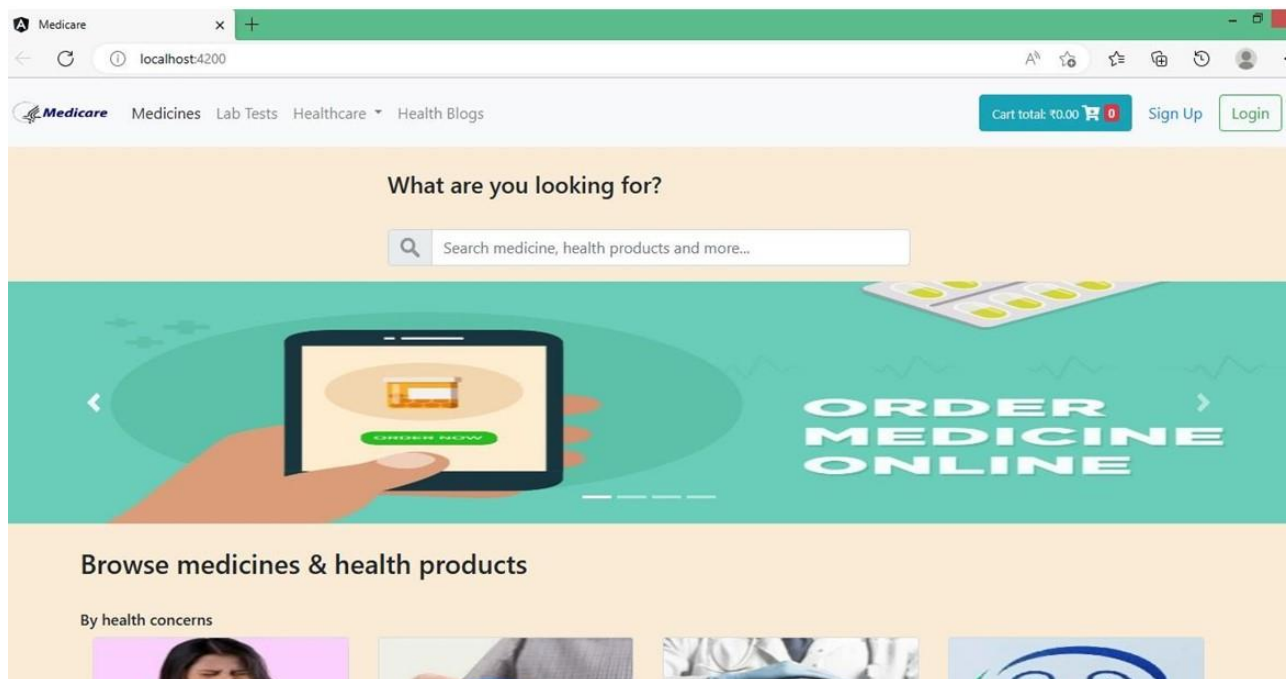
2. Planned to develop rest api's to create an order and to view orders by user.
Successfully developed and tested the user order api's using postman software.
3. Planned to develop create a new order UI in user portal.
Developed successfully.
4. Planned to develop UI's for order summary, show all orders in user and admin portal. Developed successfully.

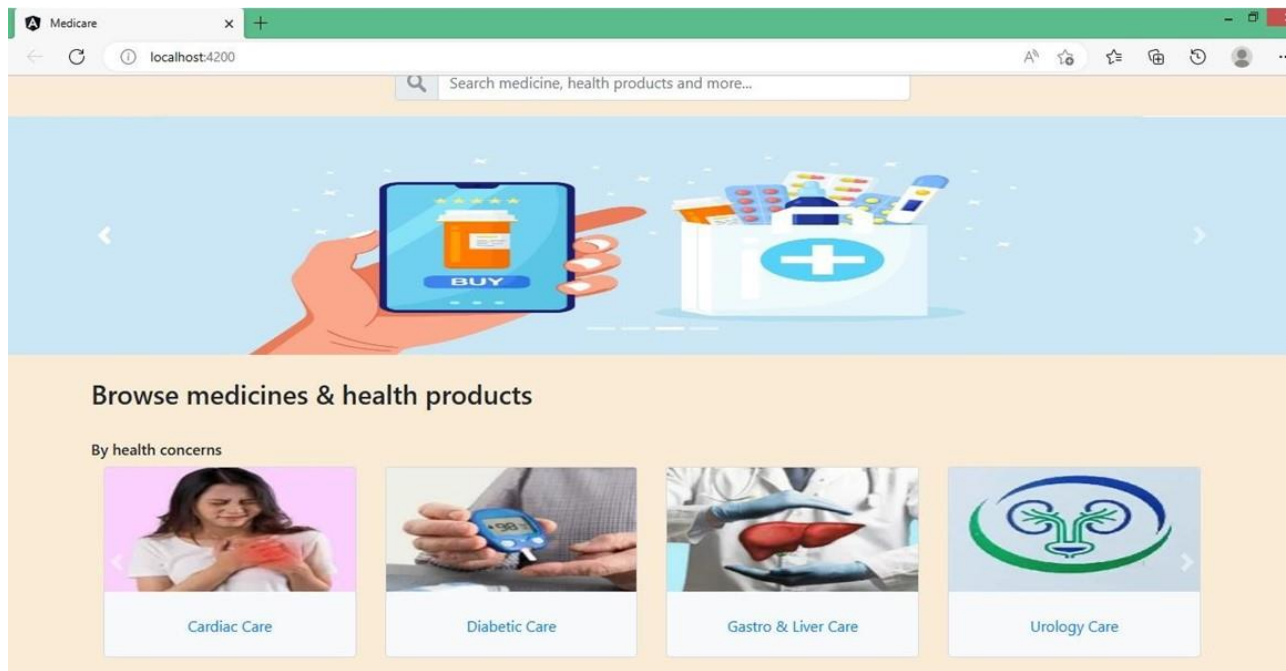
Sprint 4:

1. Planned to test the complete web application by giving the required inputs in respective fields.
2. Successfully tested all the admin portal features and user portal features.
3. The Web application is responsive, secure and all features are working as per the given requirements.

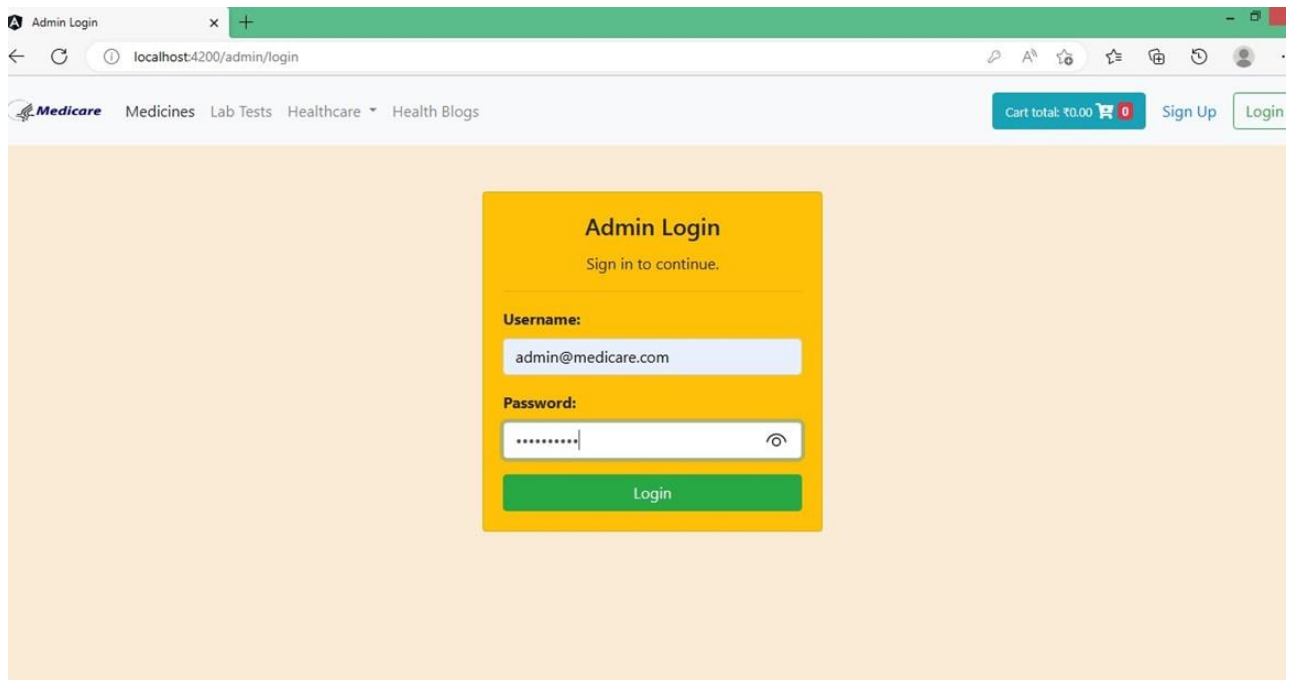
Screenshots of the Outputs:

1. Medicare Home Page

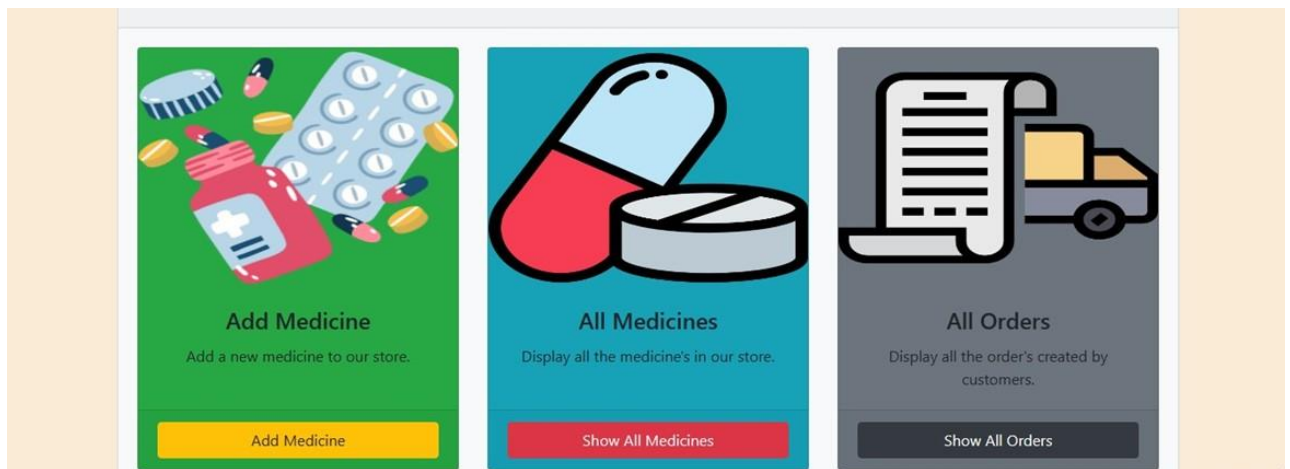




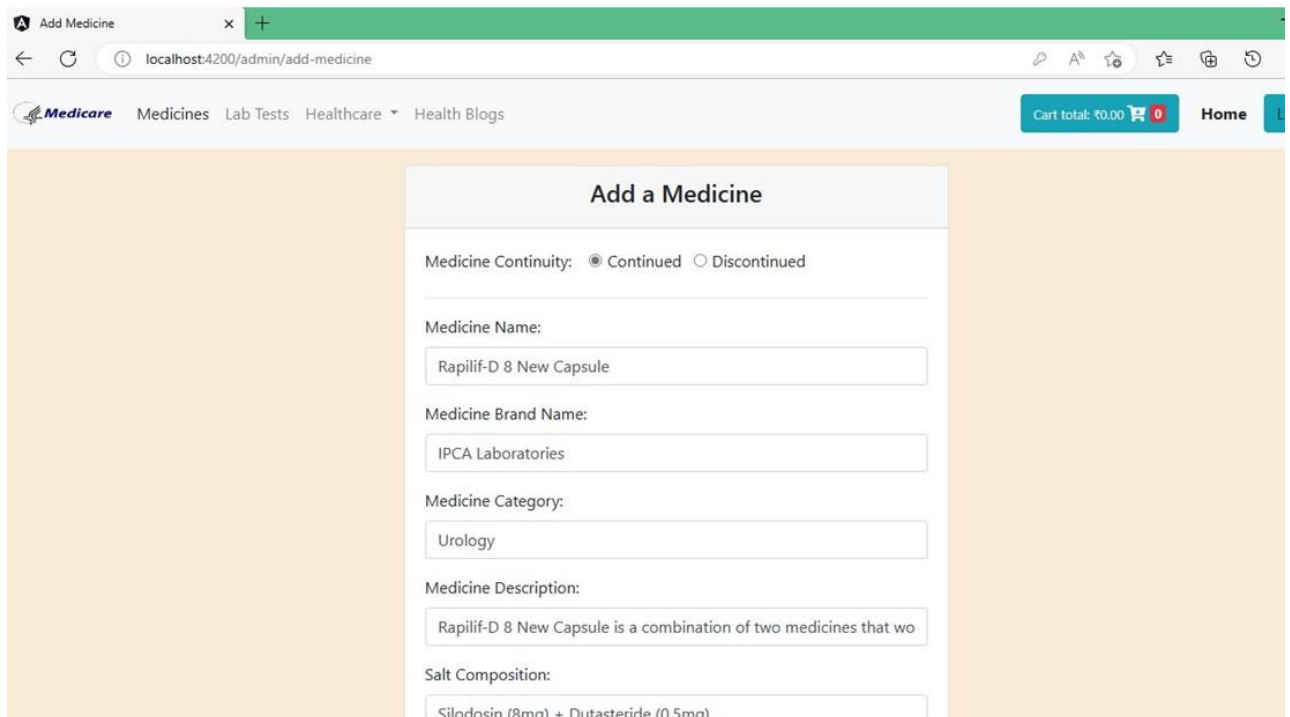
2. Admin Portal Login:

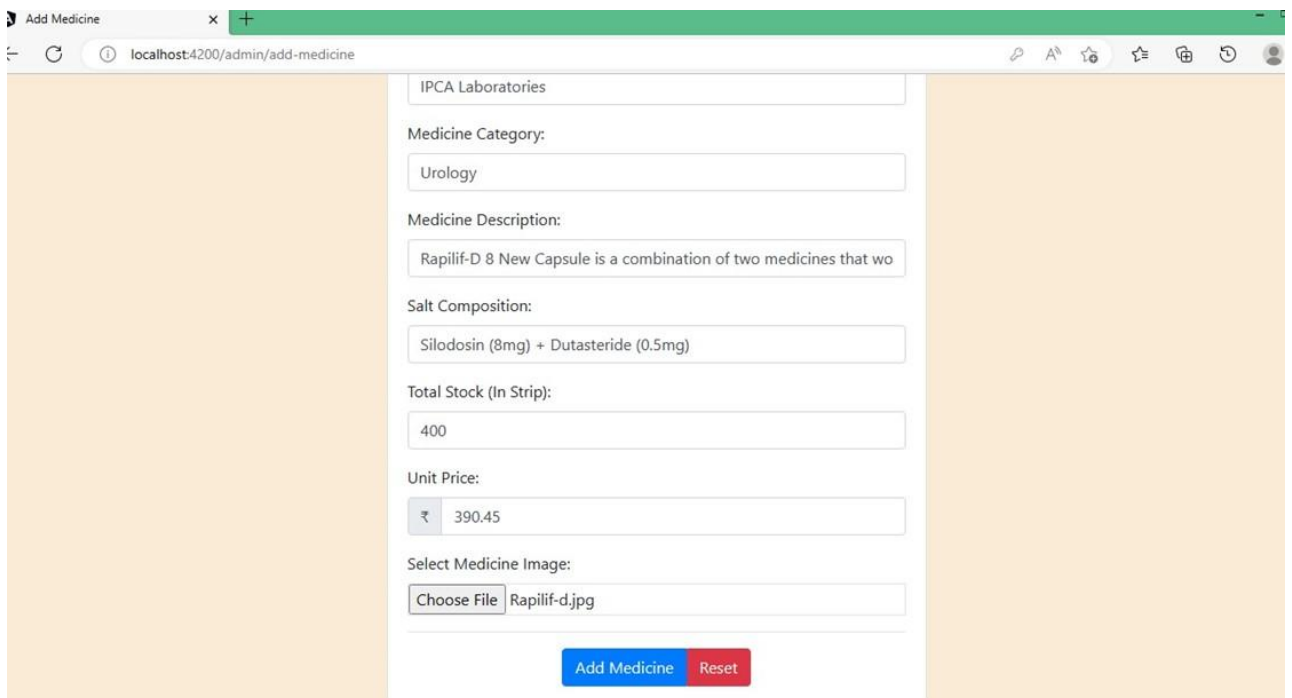
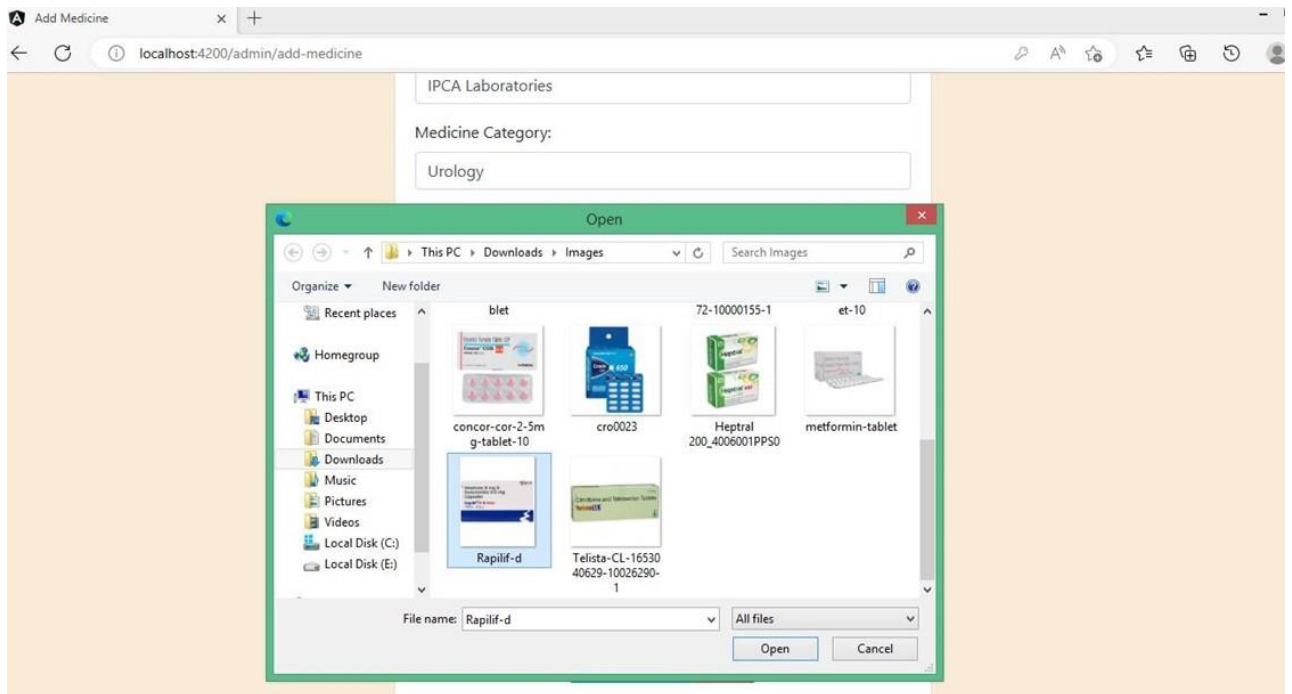


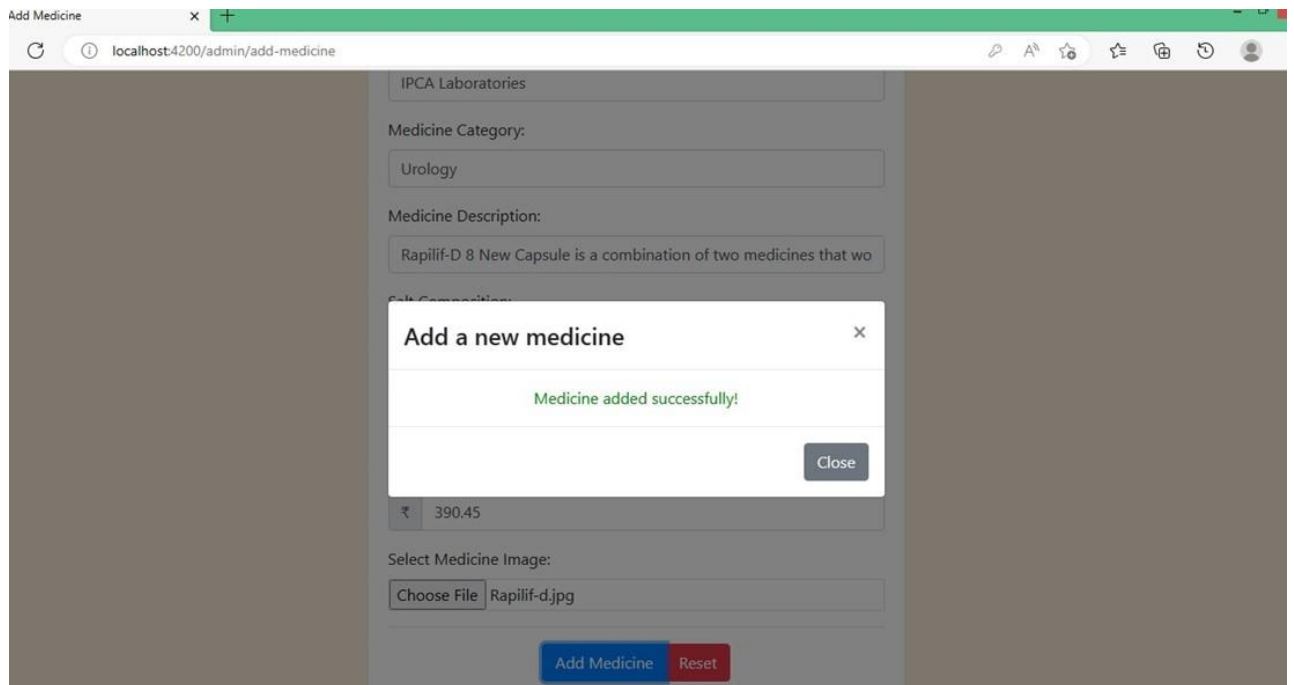
3. Admin Dashboard:



4. On Clicking Add Medicine:

The image is a screenshot of a web browser showing the 'Add Medicine' form. The browser's address bar shows 'localhost:4200/admin/add-medicine'. The page has a header with the 'Medicare' logo, navigation links for 'Medicines', 'Lab Tests', 'Healthcare', and 'Health Blogs', a 'Cart total: ₹0.00' indicator, and a 'Home' link. The main content area features a form titled 'Add a Medicine'. The form includes a 'Medicine Continuity' section with radio buttons for 'Continued' (selected) and 'Discontinued'. Below this are text input fields for 'Medicine Name' (containing 'Rapilif-D 8 New Capsule'), 'Medicine Brand Name' (containing 'IPCA Laboratories'), 'Medicine Category' (containing 'Urology'), 'Medicine Description' (containing 'Rapilif-D 8 New Capsule is a combination of two medicines that wo'), and 'Salt Composition' (containing 'Silodosin (8mq) + Dutasteride (0.5mq)').












5. On clicking show all medicines:

All Medicines [Filter by](#) Sort by [Search](#)

Medicine Image	Medicine Name	Brand	Category	Salt	Unit Price(in ₹)	Total Stock	Action	Activate
	Azithral 500 Tablet	Alembic Pharma	Anti Infectives	Azithromycin (500mg)	₹ 117.61	600	Update Delete	<input checked="" type="checkbox"/>
	Dolo 650 Tablet	Micro Labs Ltd	Analgesics	Paracetamol ip (650mg)	₹ 29.9	1000	Update Delete	<input checked="" type="checkbox"/>
	Aciloc 150 Tablet	Cadila Pharma Ltd.	Gastro Intestinal	Ranitidine (150mg)	₹ 40.94	800	Update Delete	<input checked="" type="checkbox"/>

	Crocina Advance 650 Tablet	GSK Pharma Ltd.	Analgesics	Paracetamol ip (650mg)	₹ 34	1000	Update Delete	<input checked="" type="checkbox"/>
	Heptral Tablet	Abbott	Gastro Intestinal	Ademetionine (400mg)	₹ 946	600	Update Delete	<input checked="" type="checkbox"/>
	Cardivas 3.125 Tablet	Sun Pharma Ltd.	Anti Hypertensives	Carvedilol (3.125mg)	₹ 43.5	800	Update Delete	<input checked="" type="checkbox"/>
	Rapilif-D 8 New Capsule	IPCA Laboratories	Urology	Sildenafil (8mg) + Dutasteride (0.5mg)	₹ 390.45	400	Update Delete	<input checked="" type="checkbox"/>

6. On clicking sort by price: Low to High

<div> All Medicines Filter by Sort by Search </div>									
Medicine Image	Medicine Name	Brand	Category	Salt	Price	Stock	Action		Activate
	Azithral 500 Tablet	Alembic Pharma	Anti Infectives	Azithromycin (500mg)	₹		Update	Delete	<input checked="" type="checkbox"/>
	Dolo 650 Tablet	Micro Labs Ltd	Analgesics	Paracetamol ip (650mg)	₹ 29.9	1000	Update	Delete	<input checked="" type="checkbox"/>
	Aciloc 150 Tablet	Cadila Pharma Ltd.	Gastro Intestinal	Ranitidine (150mg)	₹ 40.94	800	Update	Delete	<input checked="" type="checkbox"/>

localhost:4200/admin/get/all/medicines

Medicare Medicines Lab Tests Healthcare Health Blogs Cart total: ₹0.00 Home Logout

All Medicines Filter by Sort by Search

Medicine Image	Medicine Name	Brand	Category	Salt	Unit Price(in ₹)	Total Stock	Action	Activate
	Brufen 400 Tablet	Abbott	Analgesics	Ibuprofen (400mg)	₹ 18	650	Update Delete	<input checked="" type="checkbox"/>
	Dolo 650 Tablet	Micro Labs Ltd	Analgesics	Paracetamol ip (650mg)	₹ 29.9	1000	Update Delete	<input checked="" type="checkbox"/>
	Crocin Advance 650	GSK Pharma	Analgesics	Paracetamol ip (650mg)	₹ 34	1000	Update Delete	<input checked="" type="checkbox"/>

7. On clicking Filter By Anti Infectives:

localhost:4200/admin/get/all/medicines

Medicare Medicines Lab Tests Healthcare Health Blogs Cart total: ₹0.00 Home Logout




All Medicines Filter by Sort by Search

Medicine Image	Medicine Name	Brand	Category	Salt	Unit Price(in ₹)	Total Stock	Action	Activate
	Azithromycin Tablets LP	Micro Labs Ltd	Anti Infectives	Azithromycin (500mg)	₹ 117.61	600	Update Delete	<input checked="" type="checkbox"/>
	Dolo 650 Tablet	Micro Labs Ltd	Analgesics	Paracetamol ip (650mg)	₹ 29.9	1000	Update Delete	<input checked="" type="checkbox"/>
	Aciloc 150 Tablet	Cadila Pharma Ltd.	Gastro Intestinal	Ranitidine (150mg)	₹ 40.94	800	Update Delete	<input checked="" type="checkbox"/>

Filter by dropdown menu:





- Anti Infectives
- Anti Hypertensives
- Anti Diabetics
- Gastro Intestinal
- Urology
- Gynaecological
- Analgesics
- Vitamins

Browser: All Medicines | URL: localhost:4200/admin/get/all/medicines

Medicine Image	Medicine Name	Brand	Category	Salt	Unit Price(In ₹)	Total Stock	Action	Activate
	Azithral 500 Tablet	Alembic Pharma	Anti Infectives	Azithromycin (500mg)	₹ 117.61	600	Update Delete	<input checked="" type="checkbox"/>
	Augmentin 625 Duo Tablet	GSK Pharma Ltd.	Anti Infectives	Amoxycillin (500mg) + Clavulanic Acid (125mg)	₹ 182.8	1500	Update Delete	<input checked="" type="checkbox"/>
	Ceftum 500mg Tablet	GSK Pharma Ltd.	Anti Infectives	Cefuroxime (500mg)	₹ 474.5	400	Update Delete	<input checked="" type="checkbox"/>

8. On clicking Update on selected medicines and updating price:

Browser: All Medicines | URL: localhost:4200/admin/get/all/medicines

	Augmentin 625 Duo Tablet	GSK Pharma Ltd.	Anti Infectives	Amoxycillin (500mg) + Clavulanic Acid (125mg)	₹ 182.8	1500	Update Delete	<input checked="" type="checkbox"/>
	Brufen 400 Tablet	Abbott	Analgesics	Ibuprofen (400mg)	₹ 18	650	Update Delete	<input checked="" type="checkbox"/>
	Ceftum 500mg Tablet	GSK Pharma Ltd.	Anti Infectives	Cefuroxime (500mg)	₹ 474.5	400	Update Delete	<input checked="" type="checkbox"/>
	Concor 5 Tablet	Merck Ltd.	Anti Hypertensives	Bisoprolol (5mg)	₹ 116.54	1000	Update Delete	<input checked="" type="checkbox"/>

Update Medicine

localhost:4200/admin/update/medicine/11

Medicare

Medicines

Lab Tests

Healthcare

Health Blogs

Cart total: ₹0.00

Home

Logout

Update Medicine

Medicine Name:
Augmentin 625 Duo Tablet

Medicine Brand Name:
GSK Pharma Ltd.

Medicine Category:
Anti Infectives

Medicine Description:
Augmentin 625 Duo Tablet is a penicillin-type of antibiotic that help

Salt Composition:
Amoxycillin (500mg) + Clavulanic Acid (125mg)

Total Stock (In Strip):

Update Medicine

localhost:4200/admin/update/medicine/11

Medicare

Medicines

Lab Tests

Healthcare

Health Blogs

Cart total: ₹0.00

Home

Logout

Augmentin 625 Duo Tablet

Medicine Brand Name:
GSK Pharma Ltd.

Medicine Category:
Anti Infectives

Medicine Description:
Augmentin 625 Duo Tablet is a penicillin-type of antibiotic that help

Salt Composition:
Amoxycillin (500mg) + Clavulanic Acid (125mg)

Total Stock (In Strip):
1500

Unit Price:
₹ 182.8

Update Medicine

Update Medicine

localhost:4200/admin/update/medicine/11

Augmentin 625 Duo Tablet

Medicine Brand Name:
GSK Pharma Ltd.

Medicine Category:
Anti Infectives

Medicine Description:
Augmentin 625 Duo Tablet is a penicillin-type of antibiotic that help

Salt Composition:
Amoxycillin (500mg) + Clavulanic Acid (125mg)

Total Stock (In Strip):
1500

Unit Price:
₹ 170

Update Medicine

Update Medicine

localhost:4200/admin/update/medicine/11

Augmentin 625 Duo Tablet

Medicine Brand Name:
GSK Pharma Ltd.

Medicine Category:
Anti Infectives

Medicine Description:
Augmentin 625 Duo Tablet is a penicillin-type of antibiotic that help

Salt Composition:
Amoxycillin (500mg) + Clavulanic Acid (125mg)

Total Stock (In Strip):
1500






Unit Price:
₹ 170

Update Medicine






Update a medicine

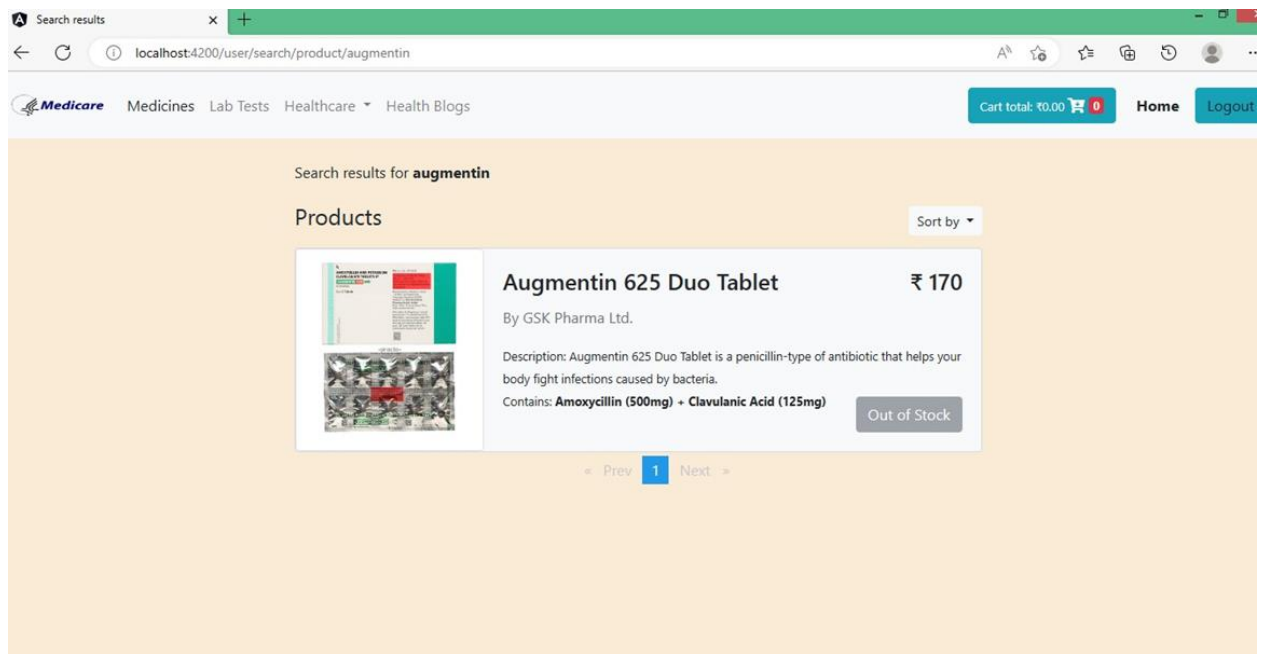
Medicine details updated successfully!

Close

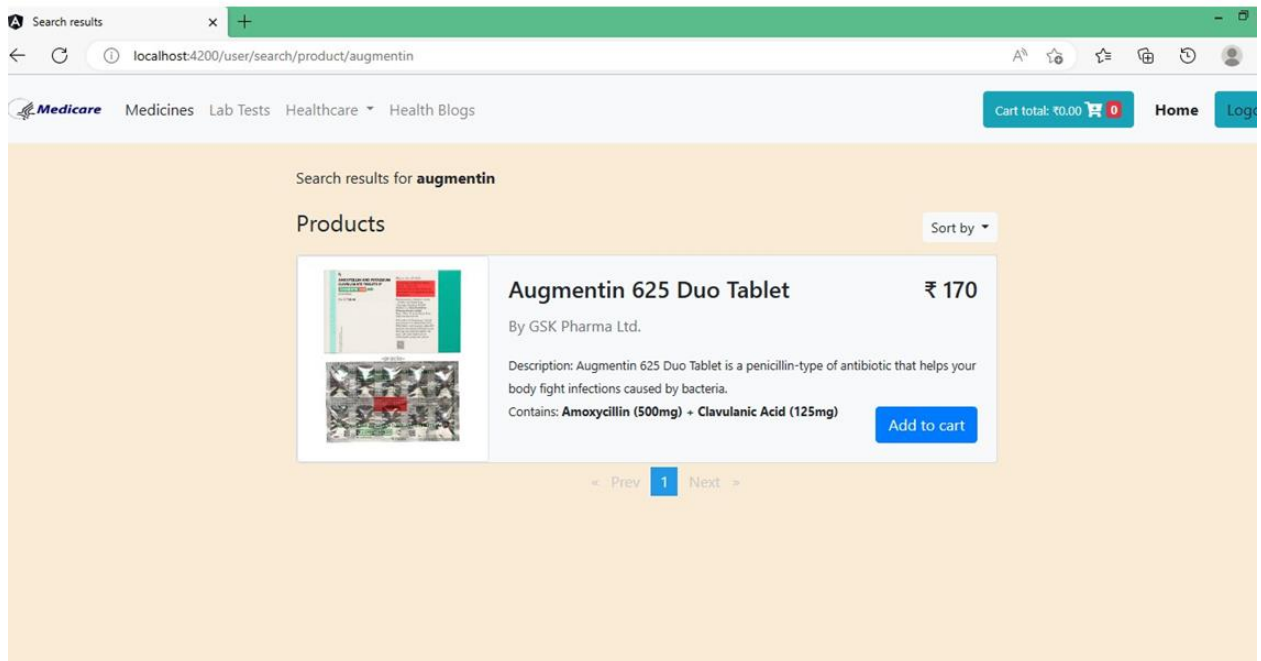
	Dolo 650 Tablet	Micro Labs Ltd	Analgesics	Paracetamol ip (650mg)	₹ 29.9	1000	Update Delete	<input checked="" type="checkbox"/>
	Aciloc 150 Tablet	Cadila Pharma Ltd.	Gastro Intestinal	Ranitidine (150mg)	₹ 40.94	800	Update Delete	<input checked="" type="checkbox"/>
	Augmentin 625 Duo Tablet	GSK Pharma Ltd.	Anti Infectives	Amoxycillin (500mg) + Clavulanic Acid (125mg)	₹ 170	1500	Update Delete	<input checked="" type="checkbox"/>
	Brufen 400 Tablet	Abbott	Analgesics	Ibuprofen (400mg)	₹ 18	650	Update Delete	<input checked="" type="checkbox"/>
	Ceftum 500mg Tablet	GSK Pharma	Anti Infectives	Cefuroxime (500mg)	₹ 474.5	400	Update Delete	<input checked="" type="checkbox"/>

9. On clicking on switch:

	Tablet	Labs Ltd		(650mg)			Update Delete	<input checked="" type="checkbox"/>
	Aciloc 150 Tablet	Cadila Pharma Ltd.	Gastro Intestinal	Ranitidine (150mg)	₹ 40.94	800	Update Delete	<input checked="" type="checkbox"/>
	Augmentin 625 Duo Tablet	GSK Pharma Ltd.	Anti Infectives	Amoxycillin (500mg) + Clavulanic Acid (125mg)	₹ 170	1500	Update Delete	<input type="checkbox"/>
	Brufen 400 Tablet	Abbott	Analgesics	Ibuprofen (400mg)	₹ 18	650	Update Delete	<input checked="" type="checkbox"/>
	Ceftum 500mg Tablet	GSK Pharma Ltd.	Anti Infectives	Cefuroxime (500mg)	₹ 474.5	400	Update Delete	<input checked="" type="checkbox"/>



10.By again clicking on switch, medicine will be available:

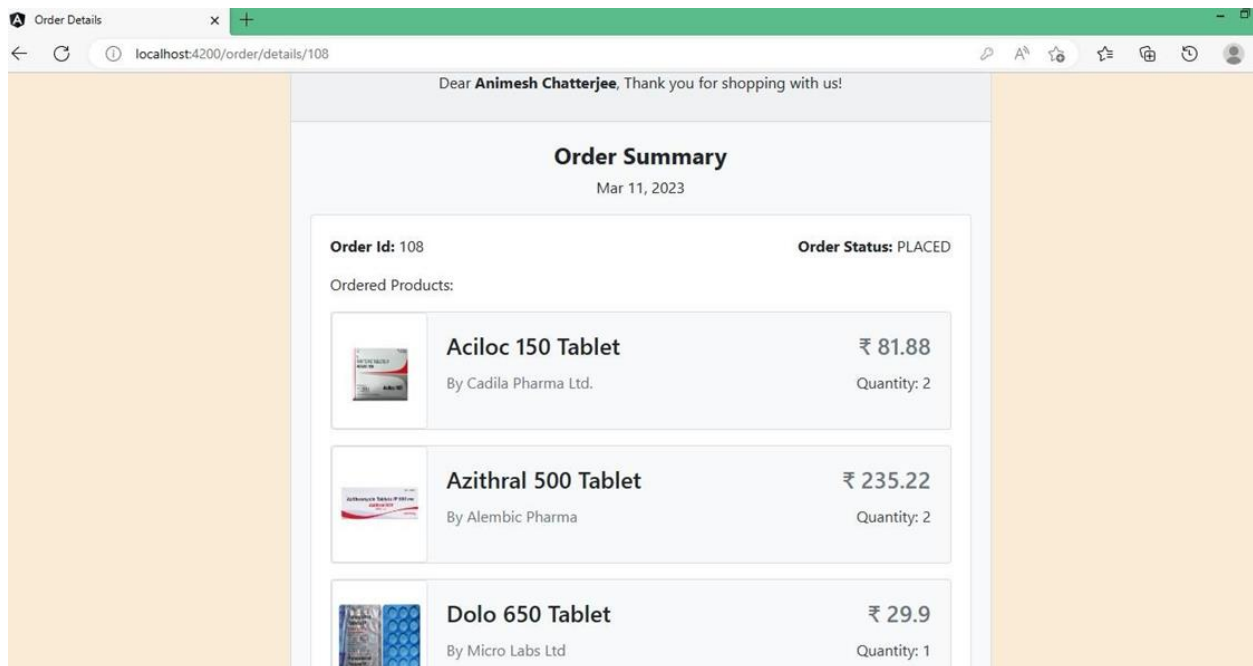


11.On Clicking show all orders:

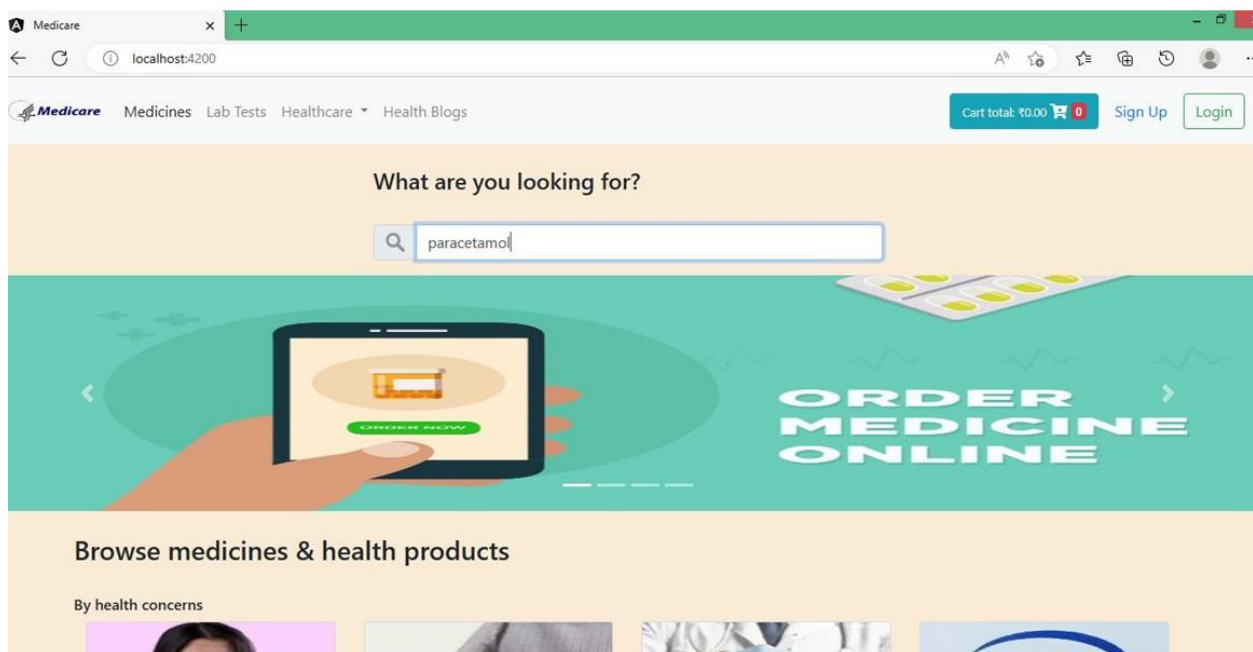
S.No.	Order-Date	Order-Id	Order-Details	User-Id	Full Name	Shipping Address	State	Contact	Paid Amount	Payment Mode
1	Mar 11, 2023	108	Show Order	animesh.c99@gmail.com	Animesh Chatterjee	5114, 4th Cross Road, City Residence Vasant Kunj-110003	New Delhi	8912345678	₹347.00	CARD-PAYMENT
2	Mar 11, 2023	115	Show Order	ayush.s96@gmail.com	Ayush Verma	2119, Icon Apartments, Swaminarayan nagar, Gandhinagar-382010	Gujarat	7898564586	₹646.06	CARD-PAYMENT

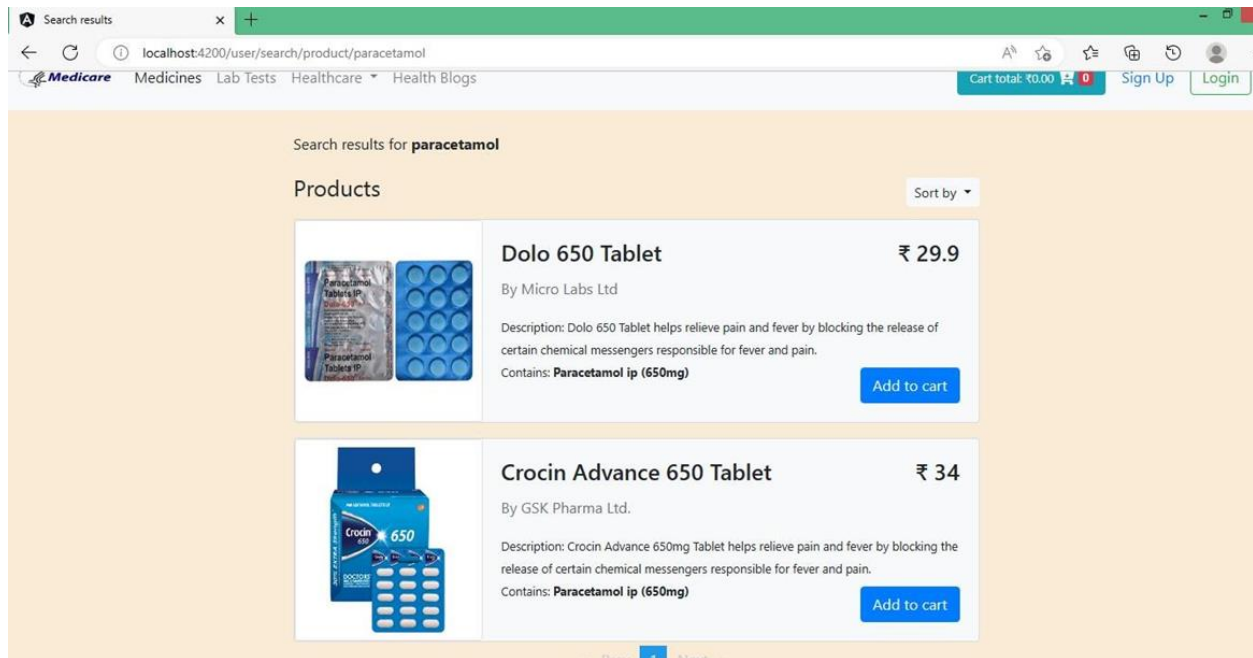
Order-Details	User-Id	Full Name	Shipping Address	State	Contact	Paid Amount	Payment Mode	Order-Status	Action
Show Order	animesh.c99@gmail.com	Animesh Chatterjee	5114, 4th Cross Road, City Residence Vasant Kunj-110003	New Delhi	8912345678	₹347.00	CARD-PAYMENT	PLACED	Delete Order
Show Order	ayush.s96@gmail.com	Ayush Verma	2119, Icon Apartments, Swaminarayan nagar, Gandhinagar-382010	Gujarat	7898564586	₹646.06	CARD-PAYMENT	PLACED	Delete Order

12. On clicking Show Order:

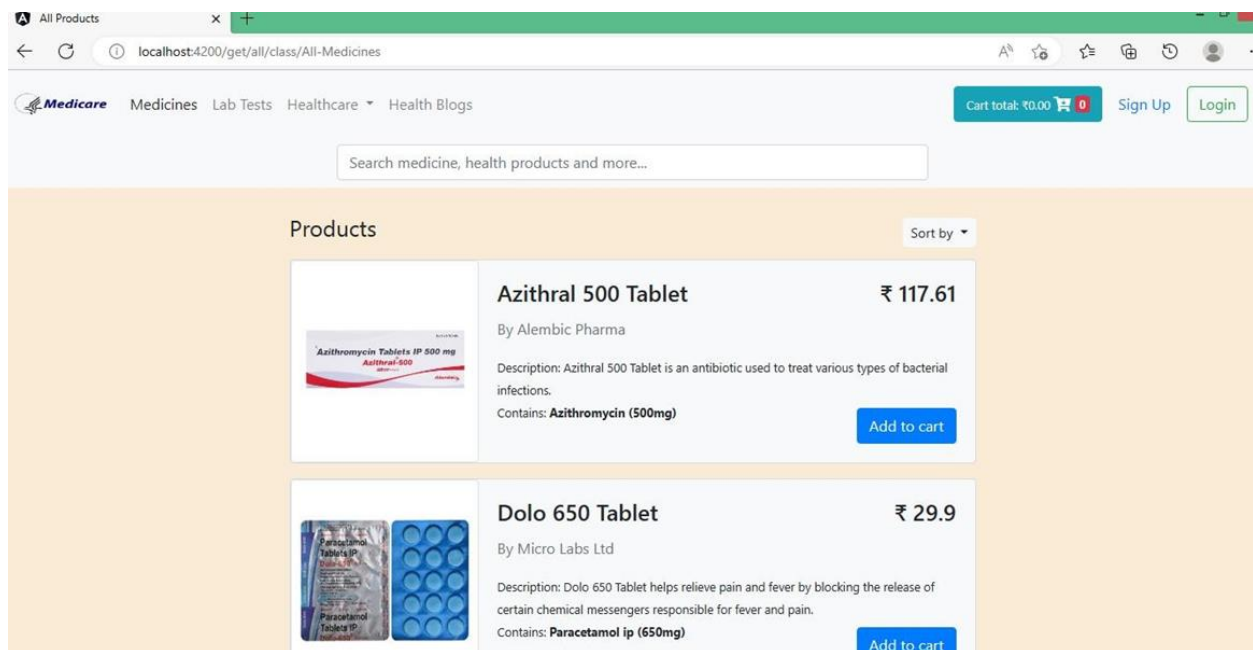


13. Searching medicine by salt name or name from home page:





14. On Clicking Medicines will show all medicines:



15. On clicking Sort By price low to high:

Medicare Medicines Lab Tests Healthcare Health Blogs


Search medicine, health products and more...

Cart total: ₹0.00 0 Sign Up Login

Products

Sort by

- Price: Low To High
- Price: High To Low
- Name: A-Z
- Name: Z-A




Azithral 500 Tablet

By Alembic Pharma

Description: Azithral 500 Tablet is an antibiotic used to treat various types of infections.

Contains: **Azithromycin (500mg)**

Add to cart



Dolo 650 Tablet

By Micro Labs Ltd

Description: Dolo 650 Tablet helps relieve pain and fever by blocking the release of certain chemical messengers responsible for fever and pain.


Contains: **Paracetamol ip (650mg)**

Add to cart

Medicare Medicines Lab Tests Healthcare Health Blogs

Search medicine, health products and more...

Cart total: ₹0.00 0 Sign Up Login




Brufen 400 Tablet

By Abbott

Description: Brufen 400 Tablet is a pain-relieving medicine. It is used to treat many conditions such as headache, fever, period pain etc.

Contains: **Ibuprofen (400mg)**

Add to cart




Dolo 650 Tablet

By Micro Labs Ltd

Description: Dolo 650 Tablet helps relieve pain and fever by blocking the release of certain chemical messengers responsible for fever and pain.

Contains: **Paracetamol ip (650mg)**

Add to cart



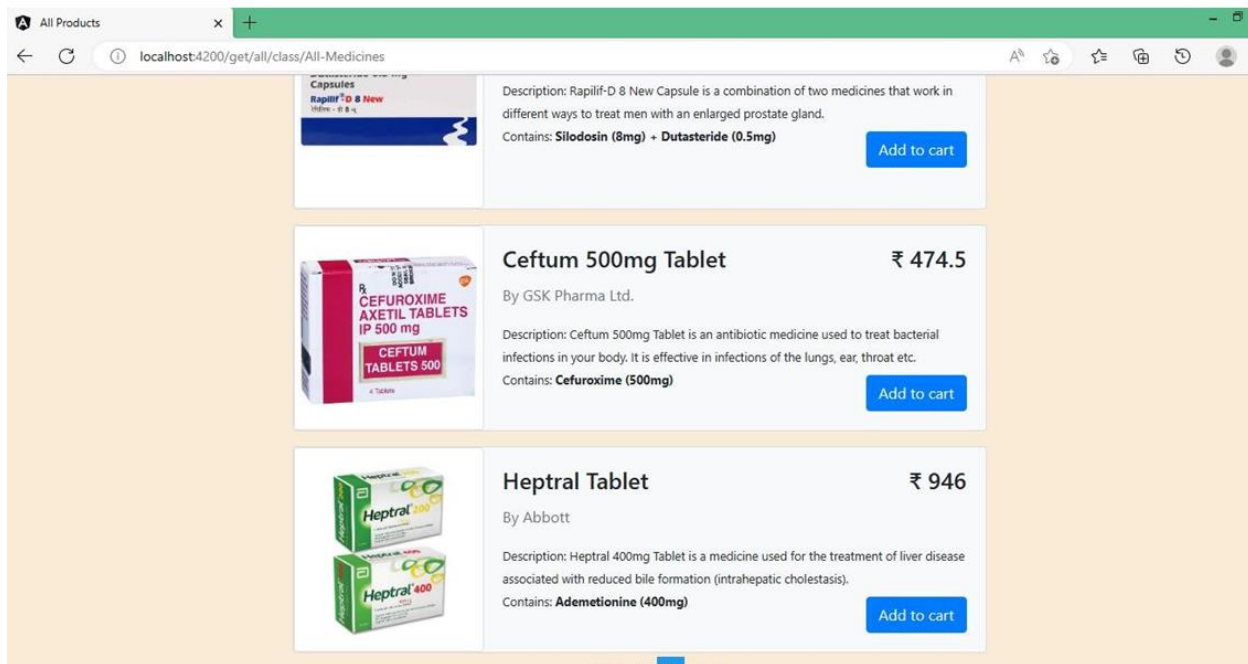
Crocin Advance 650 Tablet

By GSK Pharma Ltd.

Description: Crocin Advance 650mg Tablet helps relieve pain and fever by blocking the release of certain chemical messengers responsible for fever and pain.

Contains: **Paracetamol ip (650mg)**

Add to cart

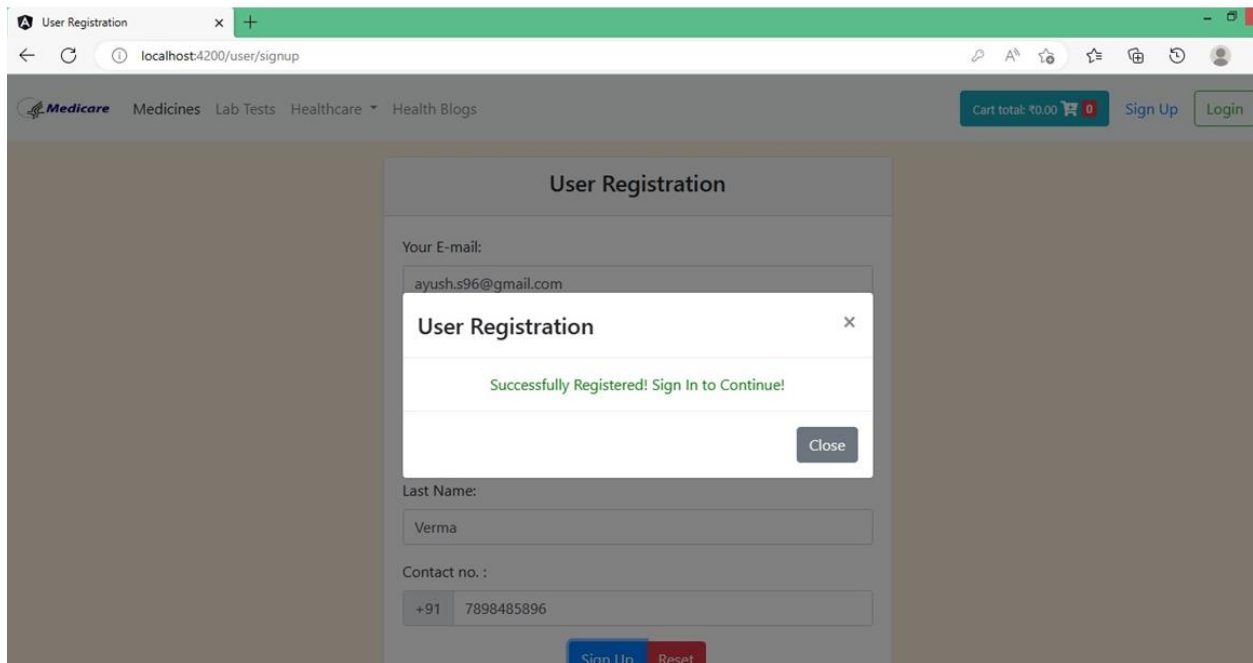


16. On clicking Signup:

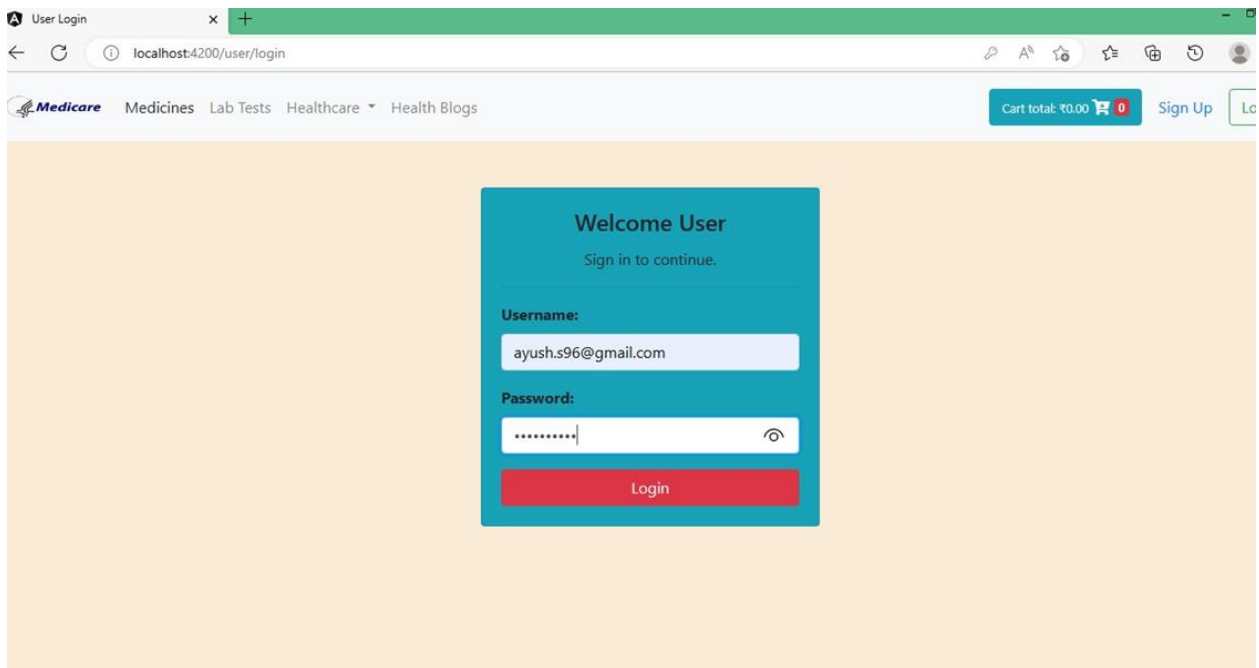
The screenshot shows a web browser window with the address bar displaying 'localhost:4200/user/signup'. The page features a header with 'Medicare' and navigation links: Medicines, Lab Tests, Healthcare, and Health Blogs. A cart icon shows 'Cart total: ₹0.00' and buttons for 'Sign Up' and 'Login'. The main content area displays a 'User Registration' form with the following fields:

- Your E-mail:
- Enter a Password:
- First Name:
- Last Name:
- Contact no. :

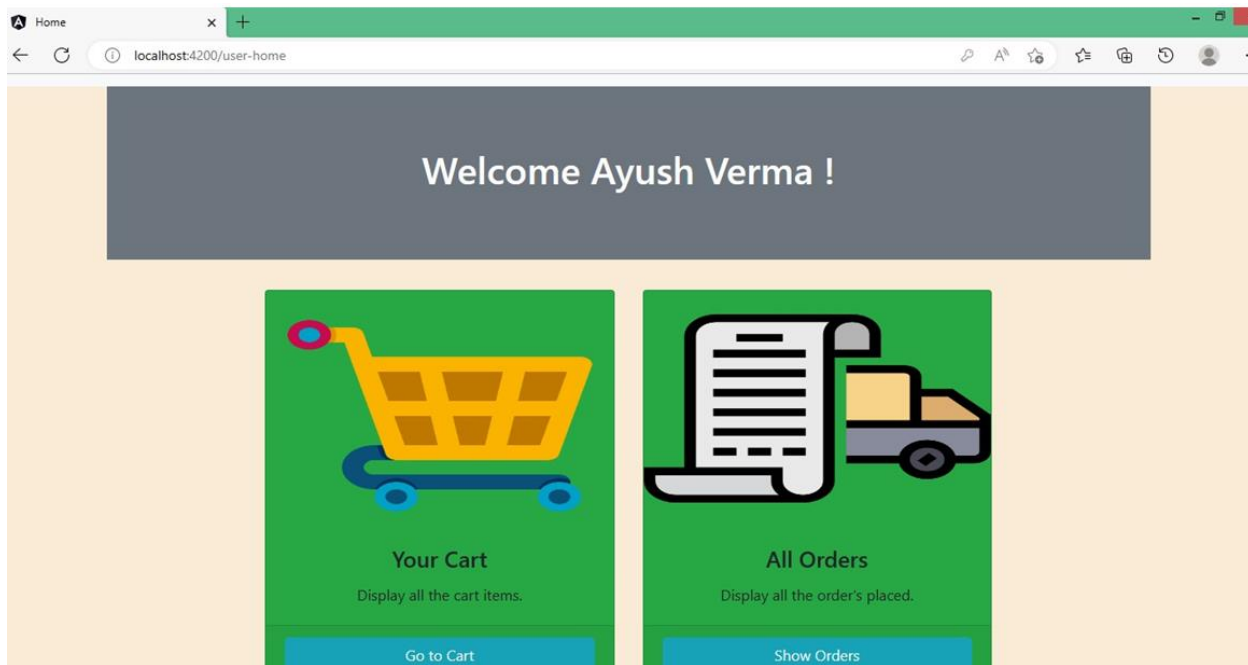
At the bottom of the form, there are two buttons: 'Sign Up' (blue) and 'Reset' (red).



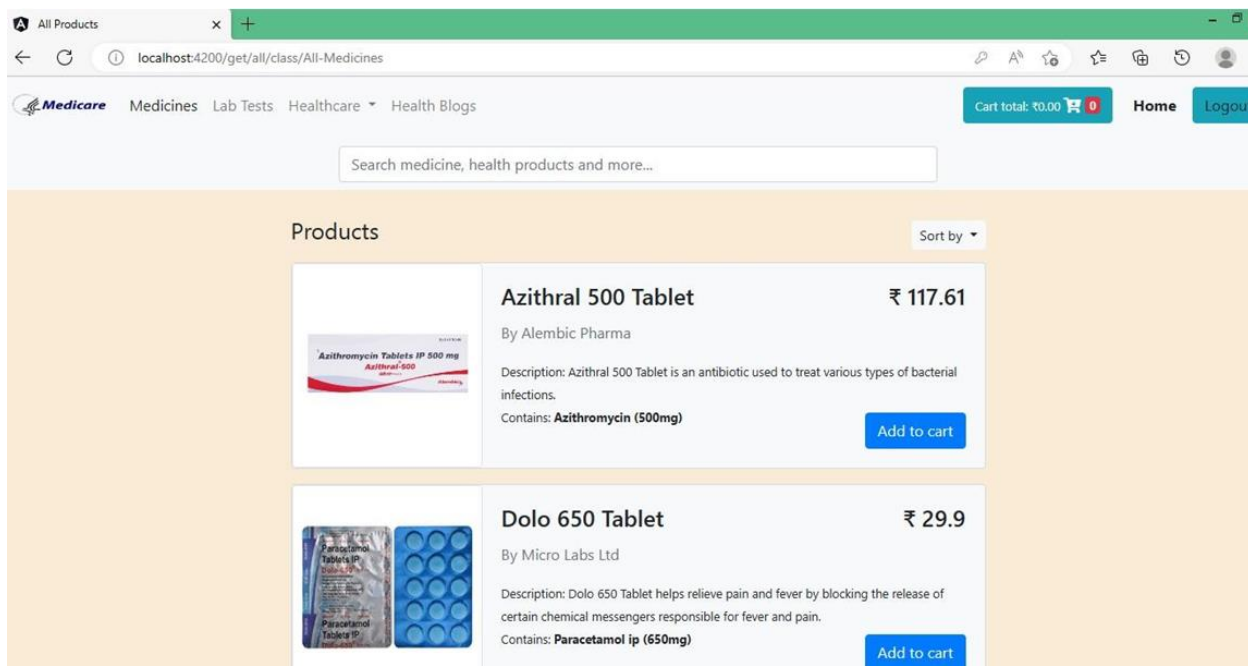
17. On Clicking login:



User Home:



18. On selecting medicines and Clicking on Add To Cart:



On Clicking cart total:

The screenshot shows a web browser window with the title 'Cart Details' and the URL 'localhost:4200/get/cart/details'. The page features a navigation bar with the 'Medicare' logo and links to 'Medicines', 'Lab Tests', 'Healthcare', and 'Health Blogs'. A cart summary in the top right corner displays 'Cart total: ₹646.06' with a shopping cart icon and the number '6', along with 'Home' and 'Logout' buttons.

The main content area is titled 'Items in your cart(6)' and is divided into two sections: 'Products' and 'Order Summary (6 item)'.

Products:

Product Image	Product Name	Manufacturer	MRP	Quantity	Action
	Azithral 500 Tablet	By Alembic Pharma	₹117.61*	2	
	Dolo 650 Tablet	By Micro Labs Ltd	₹29.90*	1	
	Aciloc 150 Tablet	By Cadila Pharma Ltd.	₹40.94*	1	

Order Summary (6 item):

- Total Quantity: 6
- Delivery Charges: Free
- Total Payable: ₹646.06

A green button labeled 'Proceed to Pay ₹646.06' is located at the bottom of the order summary.

This screenshot shows the 'Cart Details' page after adding a fourth item. The navigation bar and cart summary remain the same, with the cart total still at ₹646.06.

The 'Items in your cart(6)' section now includes four products:

Product Image	Product Name	Manufacturer	MRP	Quantity	Action
	Azithral 500 Tablet	By Alembic Pharma	₹117.61*	2	
	Dolo 650 Tablet	By Micro Labs Ltd	₹29.90*	1	
	Aciloc 150 Tablet	By Cadila Pharma Ltd.	₹40.94*	1	
	Augmentin 625 Duo Tablet	By GSK Pharma Ltd.	₹170.00*	2	

The 'Order Summary (6 item)' section is identical to the previous screenshot, showing a total quantity of 6 and a total payable of ₹646.06, with the 'Proceed to Pay ₹646.06' button.

On clicking Proceed to pay and giving order details:

Order Details

Your First Name:
Ayush

Your Last Name:
Verma

Your Shipping Address:
2119, Icon Apartments, Swaminarayan nagar,

Your Area Pincode:
382010

Your District:
Gandhinagar

Your State:
Gujarat

Order Details

Your Last Name:
Verma

Your Shipping Address:
2119, Icon Apartments, Swaminarayan nagar,

Your Area Pincode:
382010

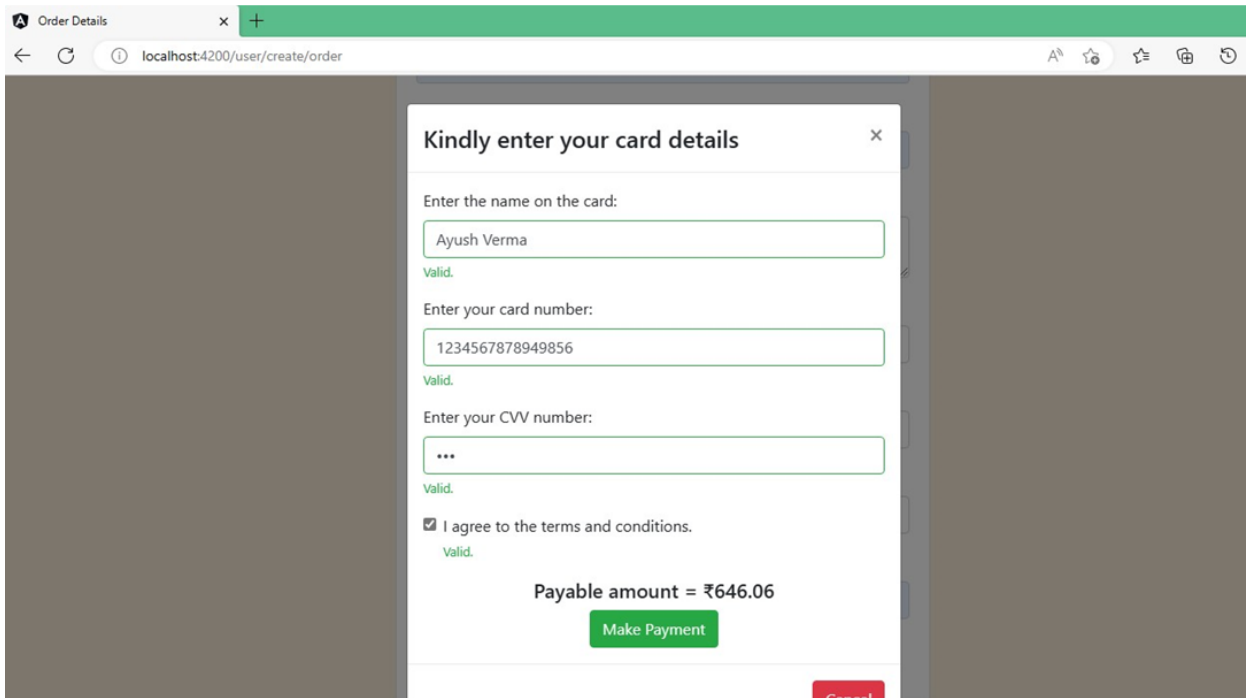
Your District:
Gandhinagar

Your State:
Gujarat

Your Contact no. :
+91 7898564586

Pay Now ₹646.06

On Clicking pay now:



Order Details

localhost:4200/user/create/order

Kindly enter your card details

Enter the name on the card:

Ayush Verma

Valid.

Enter your card number:

12345678949856

Valid.

Enter your CVV number:

...

Valid.

☒ I agree to the terms and conditions.

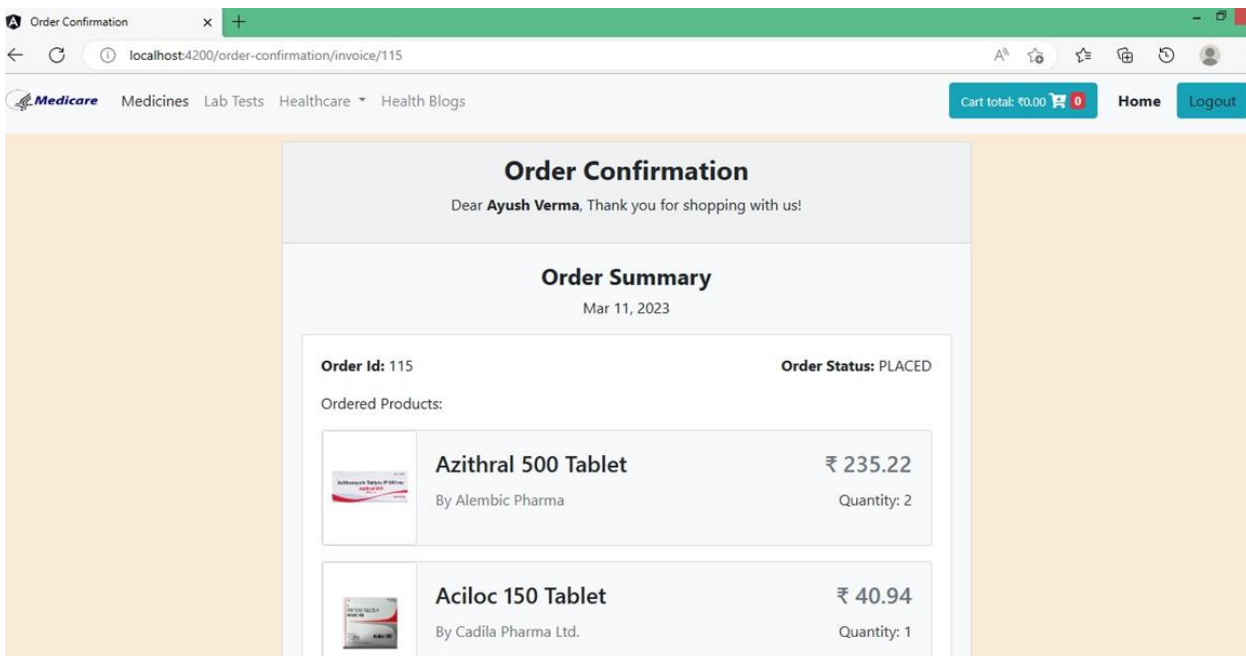
Valid.

Payable amount = ₹646.06

Make Payment

Cancel

After clicking make payment, Order is confirmed:



Order Confirmation

localhost:4200/order-confirmation/invoice/115

Medicare Medicines Lab Tests Healthcare Health Blogs

Cart total: ₹0.00 0 Home Logout

Order Confirmation



Dear **Ayush Verma**, Thank you for shopping with us!

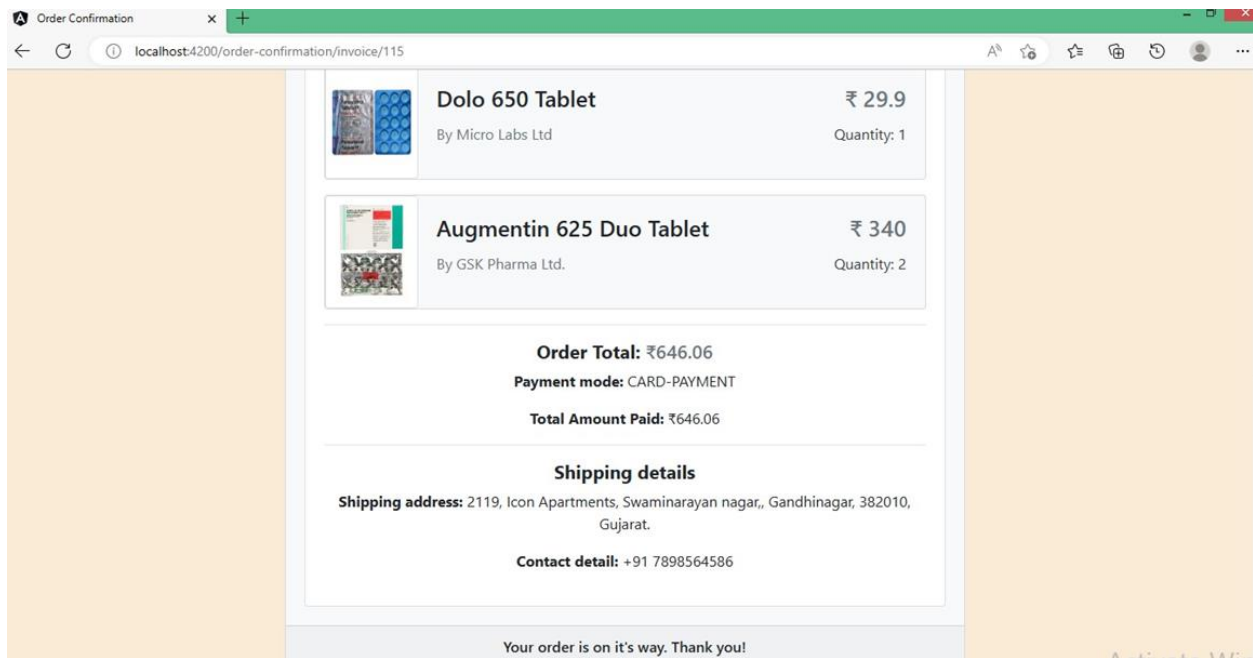
Order Summary

Mar 11, 2023

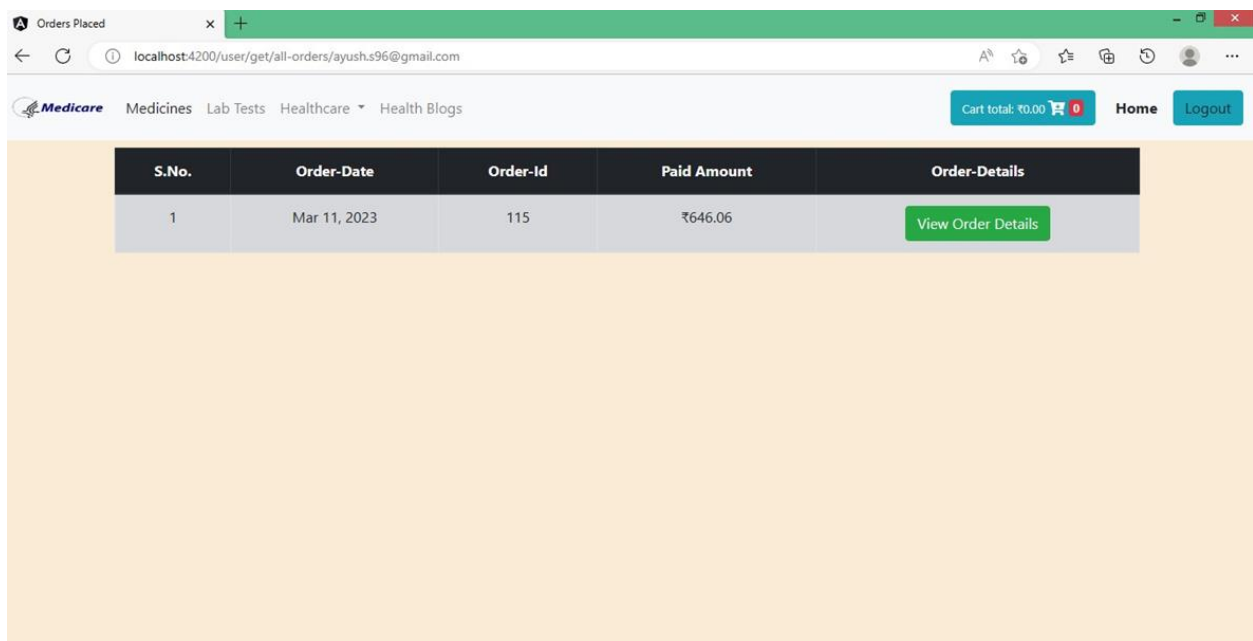
Order Id: 115 **Order Status:** PLACED

Ordered Products:

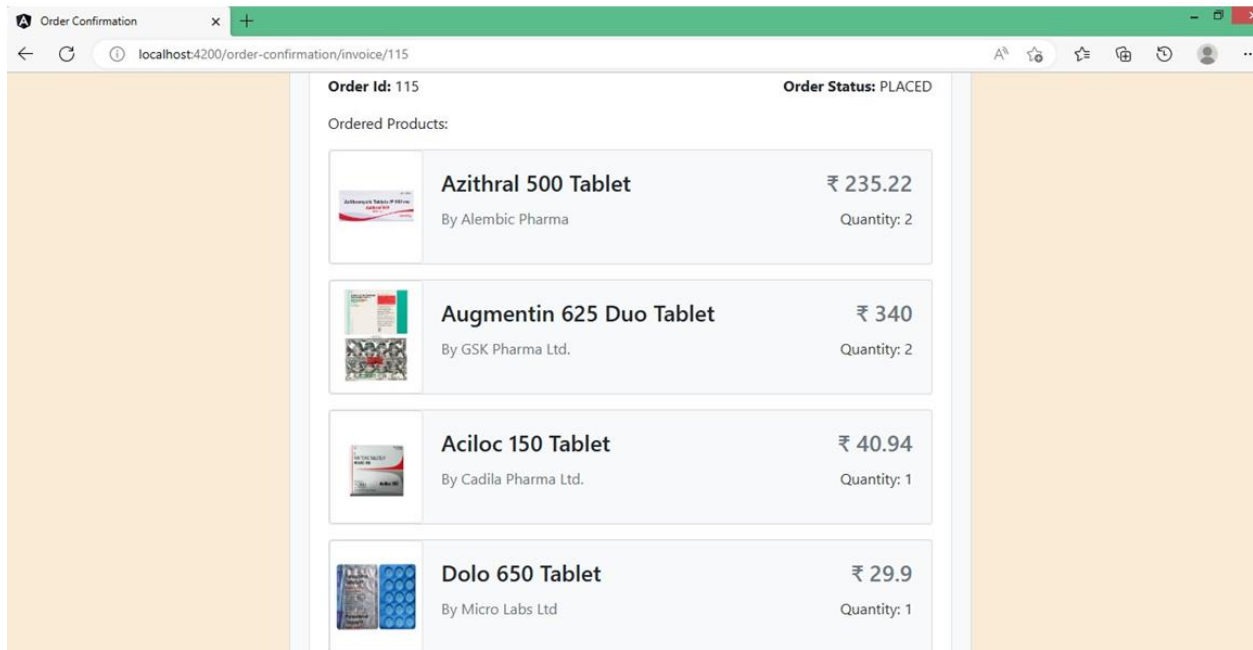
	Azithral 500 Tablet By Alembic Pharma	₹ 235.22 Quantity: 2
	Aciloc 150 Tablet By Cadila Pharma Ltd.	₹ 40.94 Quantity: 1



On clicking Show Orders from User Home:



On clicking View Order Details:



GiHub Repository link:

<https://github.com/garimakumar/Capstone-Project-MEDICARE-Final-Project.git>

