

**Capstone**  
**Medicare Project**  
**ScreenShots**

**First we will run the Project locally then we will deploy the code in  
aws EC2 Instance Using git and docker**

## Running the Backend SpringBoot Application

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** Phase-3 - Medicare-Backend/src/main/java/com/example/Medicare/Backend/MedicareBackendApplication.java - Eclipse IDE
- Menu Bar:** File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help
- Project Explorer:** Shows the project structure under Medicare-Backend.
- Code Editor:** Displays the MedicareBackendApplication.java code:

```
package com.example.Medicare.Backend;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class MedicareBackendApplication {
    public static void main(String[] args) {
        SpringApplication.run(MedicareBackendApplication.class, args);
    }
}
```

- Console Tab:** Shows the Java Application [pid: 4712] output:

```
2023-05-21T14:55:58.196+05:30 INFO 4712 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [^]
2023-05-21T14:55:58.450+05:30 INFO 4712 --- [main] o.a.c.c.C.[Tomcat].[localhost].[] : Initializing Spring embedd
2023-05-21T14:55:58.456+05:30 INFO 4712 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is autom
2023-05-21T14:55:58.907+05:30 INFO 4712 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing Pers
2023-05-21T14:55:59.039+05:30 INFO 4712 --- [main] org.hibernate.Version : HHH000412: Hibernate ORM c
2023-05-21T14:55:59.721+05:30 INFO 4712 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2023-05-21T14:55:59.730+05:30 WARN 4712 --- [main] c.zaxxer.hikari.util.DriverDataSource : Registered driver with dri
2023-05-21T14:56:00.364+05:30 INFO 4712 --- [main] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Added conne
2023-05-21T14:56:00.369+05:30 INFO 4712 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start compl
2023-05-21T14:56:00.538+05:30 INFO 4712 --- [main] SQL dialect : HHH000400: Using dialect: 
2023-05-21T14:56:02.234+05:30 INFO 4712 --- [main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatfo
2023-05-21T14:56:02.257+05:30 INFO 4712 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityMana
2023-05-21T14:56:02.954+05:30 WARN 4712 --- [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is
2023-05-21T14:56:03.571+05:30 INFO 4712 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s):
2023-05-21T14:56:03.588+05:30 INFO 4712 --- [main] c.e.M.B.MedicareBackendApplication : Started MedicareBackendApp
```

- Status Bar:** Writable, Smart Insert, 14:1 [341], 2:56 PM, 5/21/2023

## Running the FrontEnd React js Application

The screenshot shows the Visual Studio Code interface with the following details:

- Title Bar:** ProductCard.js - Medicare Frontend - Visual Studio Code
- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help
- Explorer:** Shows the project structure under MEDICARE FRONTEND.
- Code Editor:** Displays the ProductCard.js code:

```
src > components > ProductCard.js > ...
import React from 'react';
import { Button, Card } from 'react-bootstrap';
import { useCart } from 'react-use-cart';
import { BsCartPlus } from 'react-icons/bs';

const ProductCard = (props) => {
  let { price, name, seller, description, id } = props.data;
  const { addCartItem } = useCart();

  const addToCart = () => {
    addCartItem(props.data);
  }

  return (
    <Card
      style={{ width: '18rem', height: 'auto' }}
      className="bg-dark text-black p-0 overflow-hidden shadow mx-auto mb-4"
    >
      /* <Link to={`/product-details/${id}`}>
      <div style={{ background: 'white', height: '15rem', overflow: 'hidden', display: 'flex',>
```

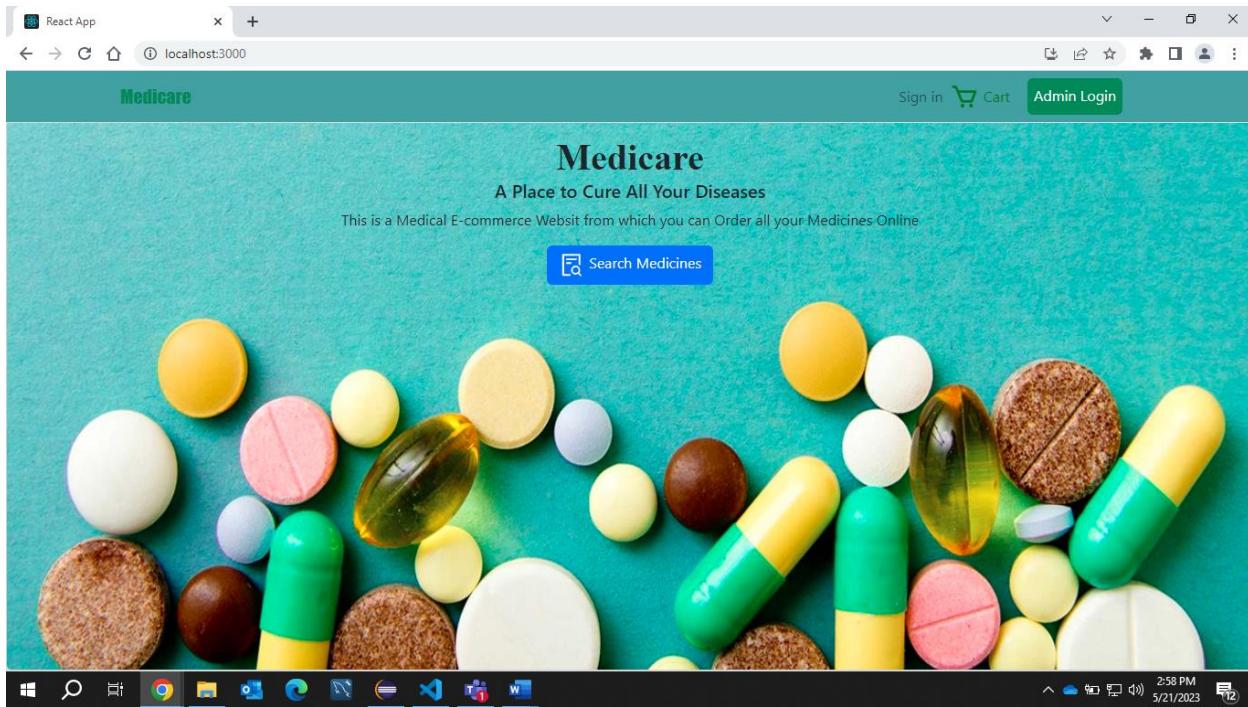
- Terminal Tab:** Shows the output of the build process:

```
Compiled successfully!
You can now view Medicare-FrontEnd in the browser.
Local: http://localhost:3000
On Your Network: http://10.188.222.17:3000
Note that the development build is not optimized.
To create a production build, use npm run build.
webpack compiled successfully
```

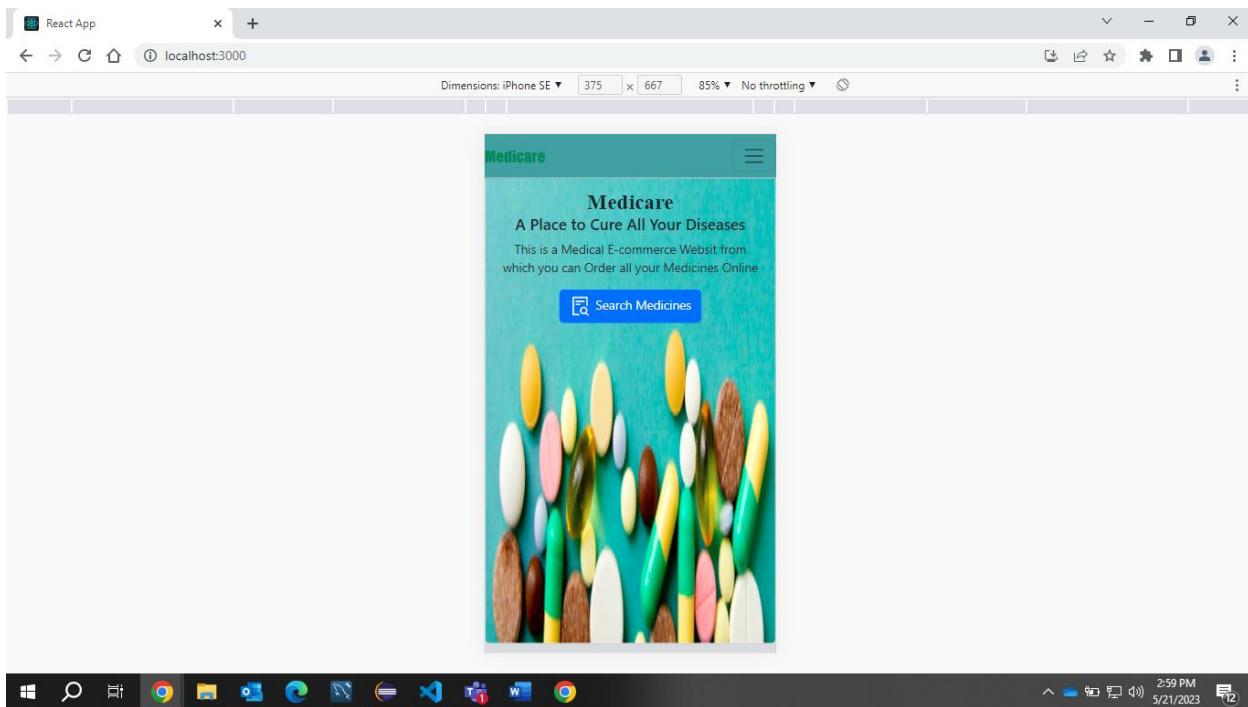
- Status Bar:** Ln 4, Col 45, Spaces: 4, UTF-8, LF, JavaScript, 2:57 PM, 5/21/2023

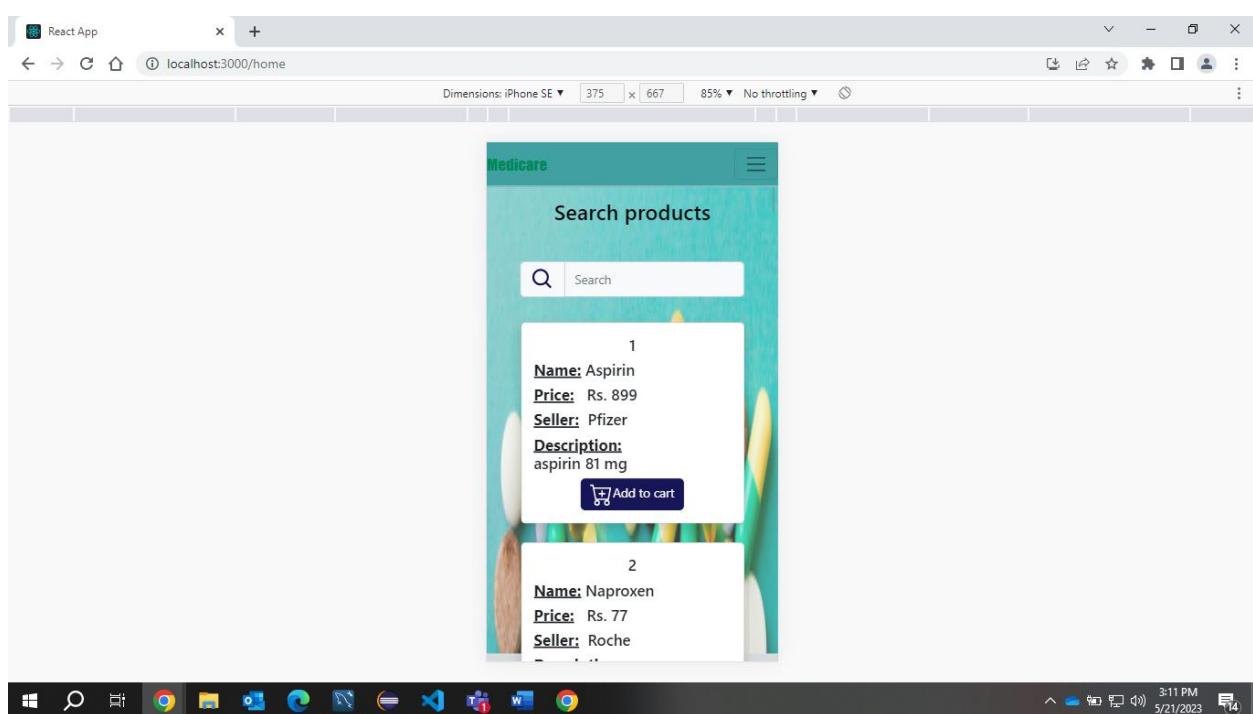
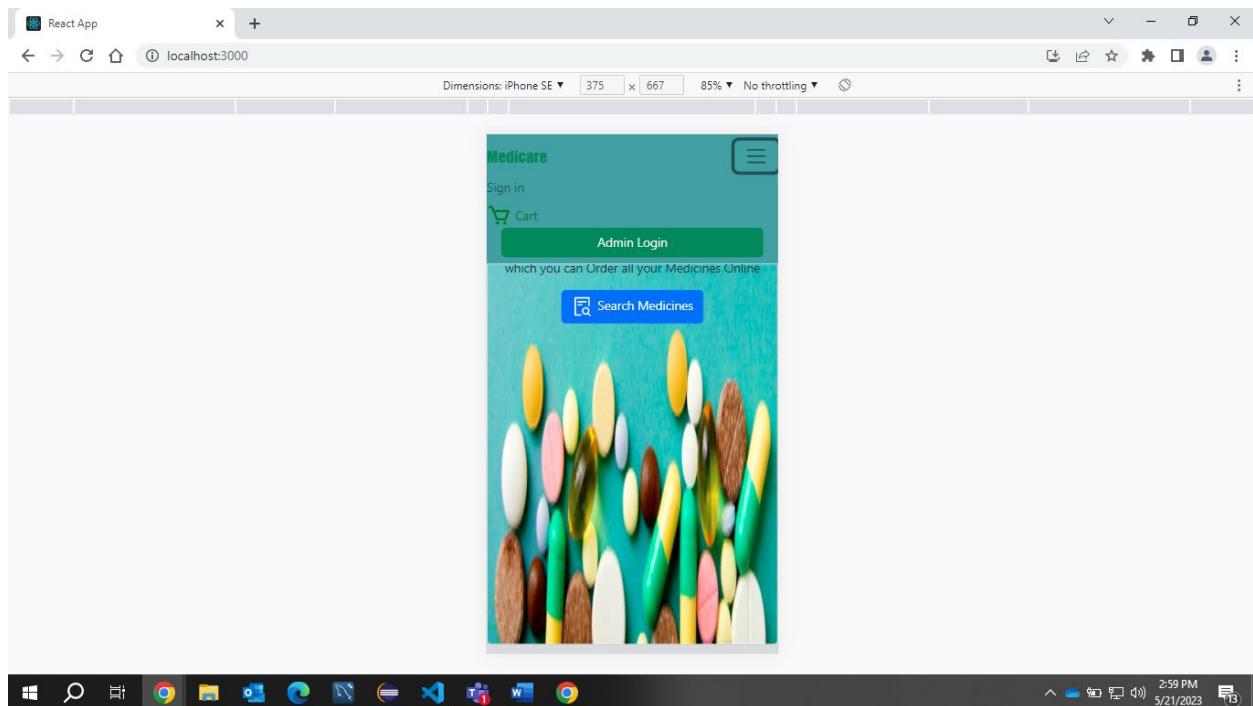
## Application Running on Localhost

### Index.js



## Responsive





React App × +

localhost:3000/home

Medicare Sign in Cart Admin Login

## Search products

1  
**Name:** Aspirin  
**Price:** Rs. 899  
**Seller:** Pfizer  
**Description:** aspirin 81 mg  
Add to cart

2  
**Name:** Naproxen  
**Price:** Rs. 77  
**Seller:** Roche  
**Description:** naproxen 500 mg  
Add to cart

3  
**Name:** Prednisone  
**Price:** Rs. 113  
**Seller:** Merck & Co  
**Description:** prednisone 20 mg  
Add to cart

4  
**Name:** Buspirone  
**Price:** Rs. 110  
**Seller:** Novartis  
Add to cart

5  
**Name:** Lisinopril  
**Price:** Rs. 90  
**Seller:** Sanofi  
Add to cart

6  
**Name:** Isosorbide mononi...  
**Price:** Rs. 290  
**Seller:** Merck & Co  
Add to cart

2:59 PM 5/21/2023

## Filtering with Seller

React App × +

localhost:3000/home

Medicare Sign in Cart Admin Login

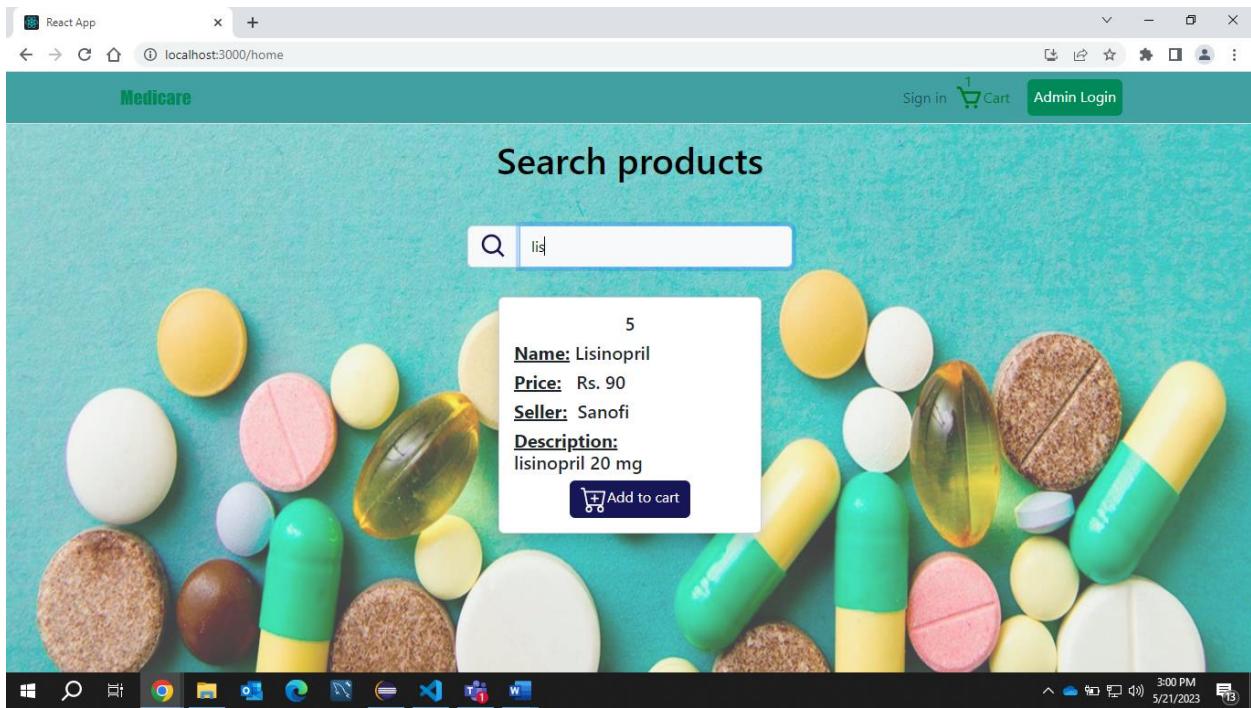
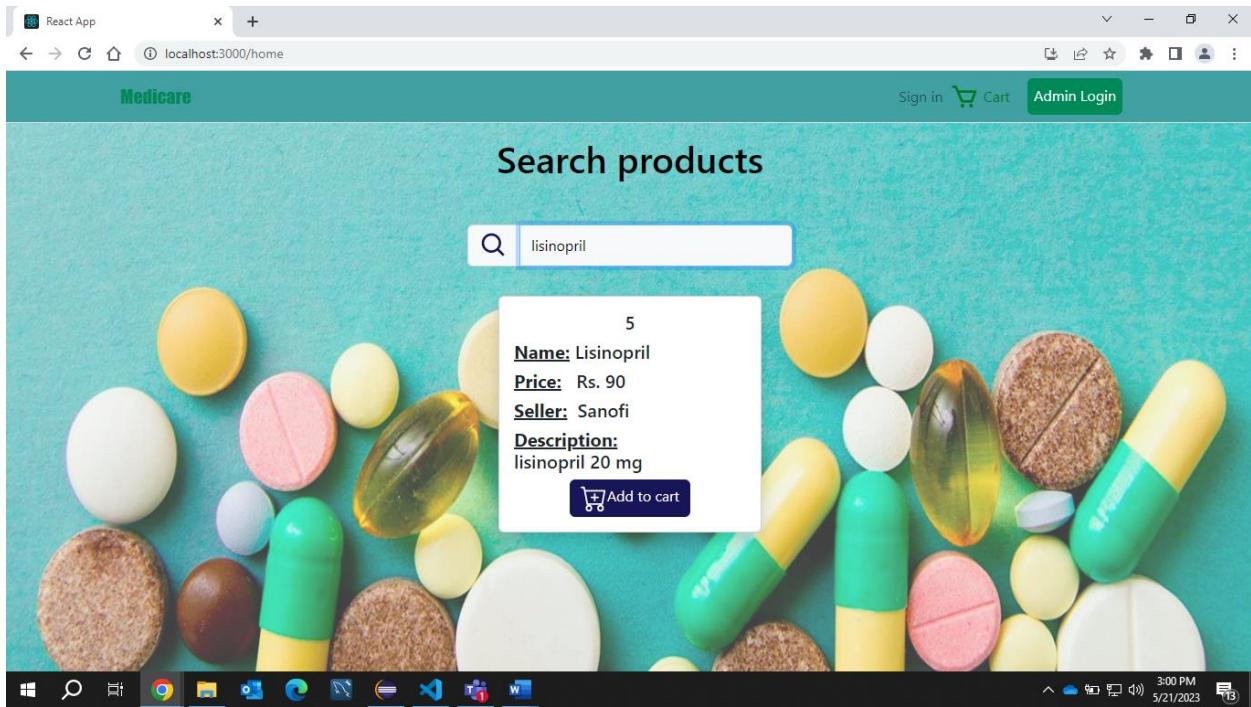
## Search products

2  
**Name:** Naproxen  
**Price:** Rs. 77  
**Seller:** Roche  
**Description:** naproxen 500 mg  
Add to cart

8  
**Name:** Terbinafine  
**Price:** Rs. 90  
**Seller:** Roche  
**Description:** terbinafine 250 mg  
Add to cart

3:00 PM 5/21/2023

## Filtering with name



**Even With out sign in we can add the items to cart and that data will be stored in Localstorage**

The Cart

ID	Name	Price	Seller	Quantity	Description	Actions
5	Lisinopril	Rs. 90	Seller (Sanofi)	Quantity (1)	lisinopril 20 mg	<button>-</button> <button>+</button> <button>Remove Item</button>
2	Naproxen	Rs. 77	Seller (Roche)	Quantity (1)	naproxen 500 mg	<button>-</button> <button>+</button> <button>Remove Item</button>
3	Prednisone	Rs. 113	Seller (Merck & Co)	Quantity (1)	prednisone 20 mg	<button>-</button> <button>+</button> <button>Remove Item</button>

Total Price: Rs. 280

Clear Cart Checkout

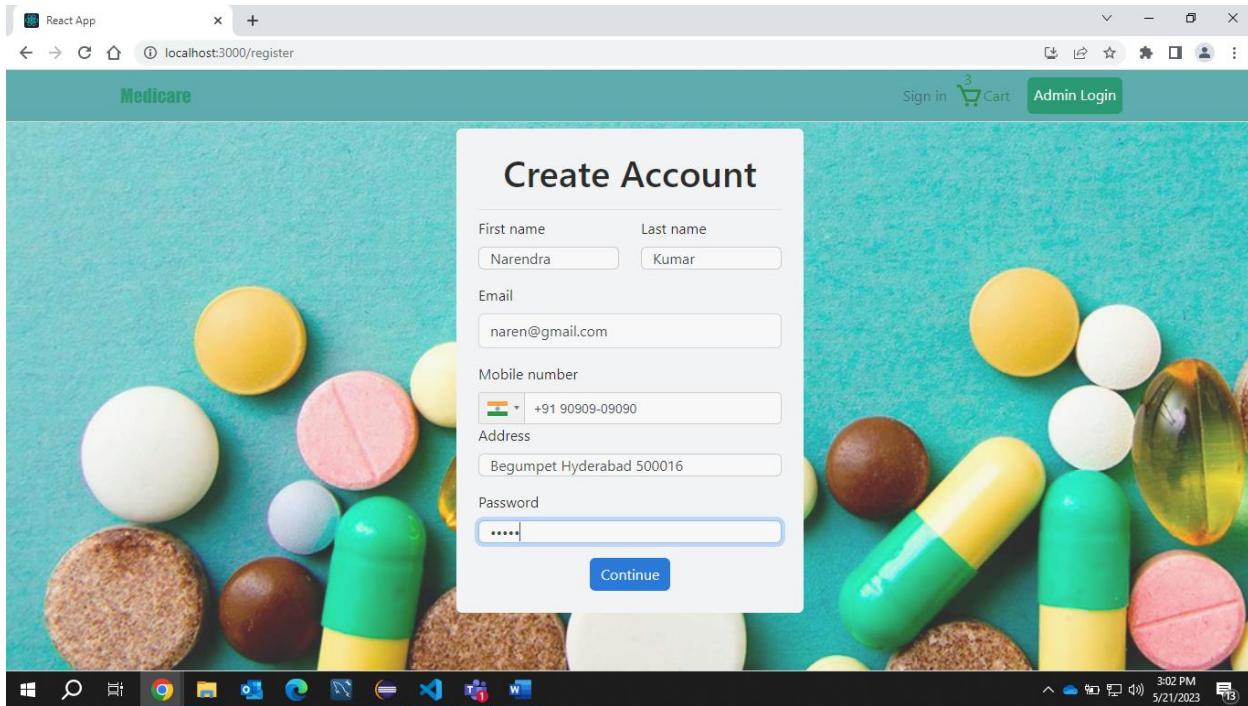
**As soon as we Click Checkout it will redirect to sign in page because user didn't sign in**

Sign in

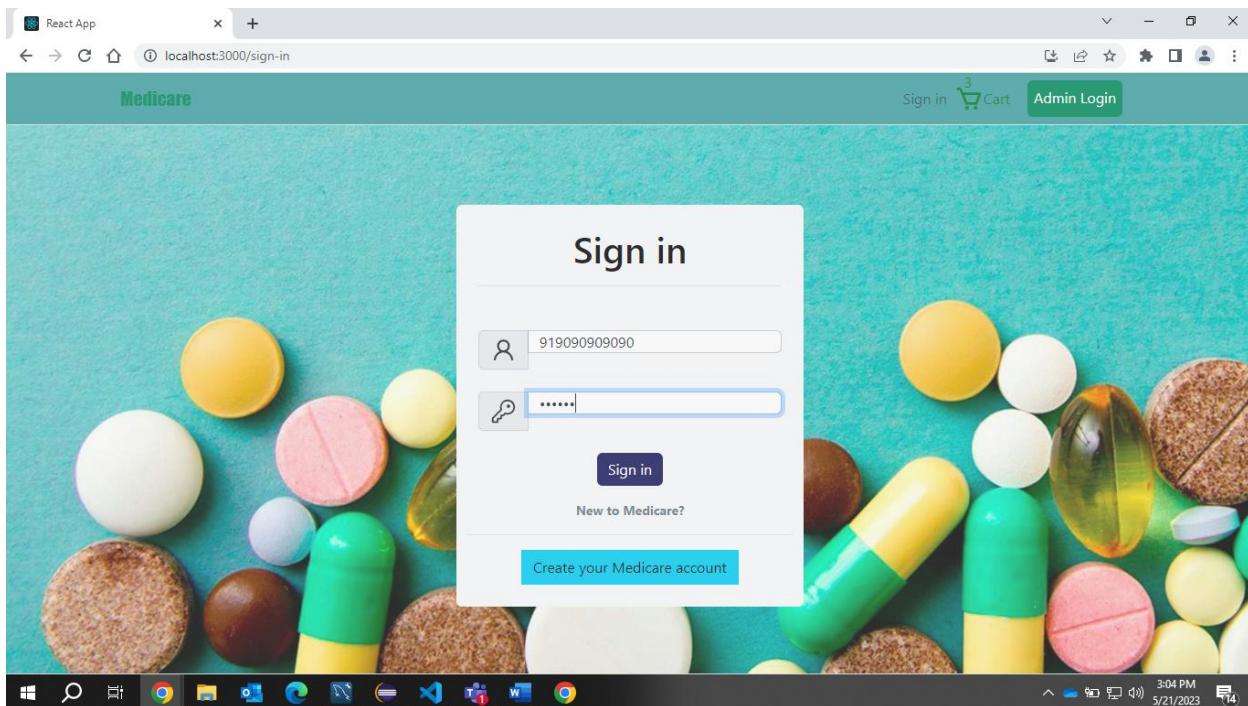
New to Medicare?

Create your Medicare account

## Creating a User Account



## Signing in



As you can see the cart items are still there

The screenshot shows a search results page for "Search products". There are six product cards displayed:

- 1 Aspirin**: Price: Rs. 899, Seller: Pfizer, Description: aspirin 81 mg. Add to cart button.
- 2 Naproxen**: Price: Rs. 77, Seller: Roche, Description: naproxen 500 mg. Add to cart button.
- 3 Prednisone**: Price: Rs. 113, Seller: Merck & Co, Description: prednisone 20 mg. Add to cart button.
- 4 Buspirone**: Price: Rs. 110, Seller: Novartis. Add to cart button.
- 5 Lisinopril**: Price: Rs. 90, Seller: Sanofi. Add to cart button.
- 6 Isosorbide mononi...**: Price: Rs. 290, Seller: Merck & Co. Add to cart button.

The screenshot shows the "The Cart" page. A table lists the items in the cart:

ID	Name	Price	Seller	Quantity	Description	Actions
5	Lisinopril	Rs. 90	Seller (Sanofi)	Quantity (1)	lisinopril 20 mg	<span>-</span> <span>+</span> Remove Item
2	Naproxen	Rs. 77	Seller (Roche)	Quantity (1)	naproxen 500 mg	<span>-</span> <span>+</span> Remove Item
3	Prednisone	Rs. 113	Seller (Merck & Co)	Quantity (1)	prednisone 20 mg	<span>-</span> <span>+</span> Remove Item

Total Price: Rs. 280

localhost:3000/cart

Clear Cart Checkout

**Now if we Click Checkout this page will be display all the user Details will be pre-filled from the localStorage (Stored during Sign in)**

The screenshot shows a browser window titled "React App" at "localhost:3000/checkout". The page is for "Medicare" and displays "Check Out" information. At the top right, it says "Signed in As: Narendra Kumar" with a "Logout" button. A "Cart" icon indicates 3 items. The main form has fields for "Full Name" (Narendra Kumar), "Mobile number" (919090909090), and "Email" (naren@gmail.com). Below that is an "Address" field containing "Begumpet Hyderabad 500016". A "Payment Type" dropdown menu is open, showing "Open this select menu". A "Review Cart Details" section contains a table:

ID	Name	Price	Seller	Quantity	Description	Actions
5	Lisinopril	Rs. 90	Seller (Sanofi)	Quantity (1)	lisinopril 20 mg	- +

Total Price: Rs. 280

Buttons: "Clear Cart" (red) and "Checkout" (green).

### Select the mode of Payment

The screenshot shows the same "React App" at "localhost:3000/checkout" for "Medicare". The "Payment Type" dropdown is now set to "Cash on Delivery". A red message at the bottom of the payment section says "Selected Cash on Delivery as Payment Method\*\*". The rest of the page is identical to the previous screenshot, showing pre-filled user details and a cart summary.

React App

localhost:3000/checkout

Medicare

Signed in As: Narendra Kumar 3 Cart Logout

Check Out

User Details

Full Name: Narendra Kumar

Mobile number: 919090909090

Email: naren@gmail.com

Address: Begumpet Hyderabad 500016

Payment Type: Debit Card

Enter Debit Card Details

Debit Card Number: XXXX-XXXX-XXXX-XXXX

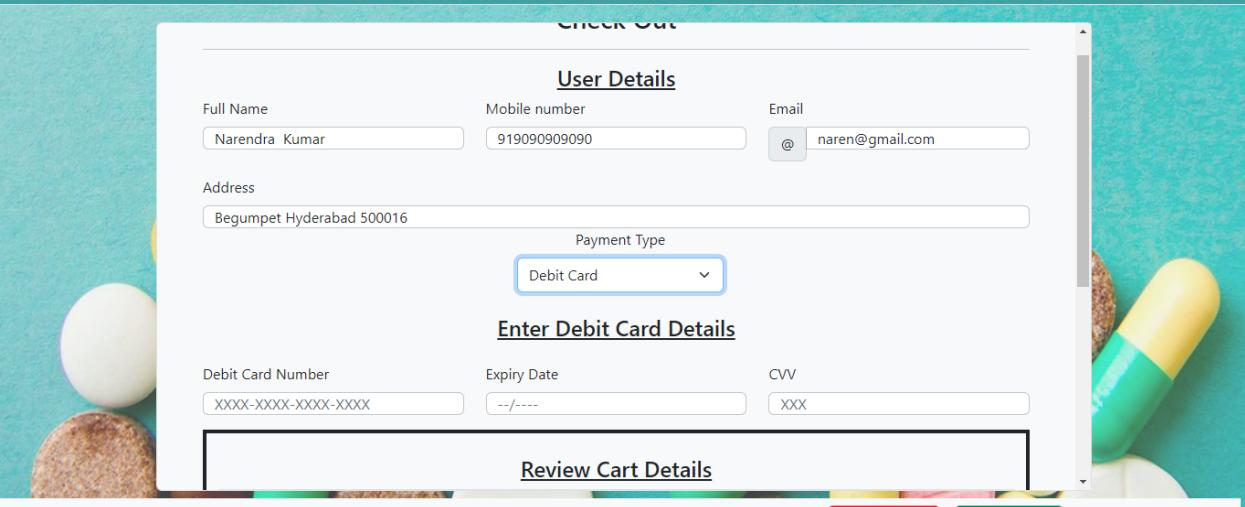
Expiry Date: --/----

CVV: XXX

Review Cart Details

Total Price: Rs. 280

Clear Cart Checkout



Windows taskbar: File Explorer, Task View, Start, Taskbar icons, 3:05 PM, 5/21/2023, Notepad icon.

React App

localhost:3000/checkout

Medicare

Signed in As: Narendra Kumar 3 Cart Logout

Check Out

User Details

Full Name: Narendra Kumar

Mobile number: 919090909090

Email: naren@gmail.com

Address: Begumpet Hyderabad 500016

Payment Type: Credit Card

Enter Credit Card Details

Credit Card Number: XXXX-XXXX-XXXX-XXXX

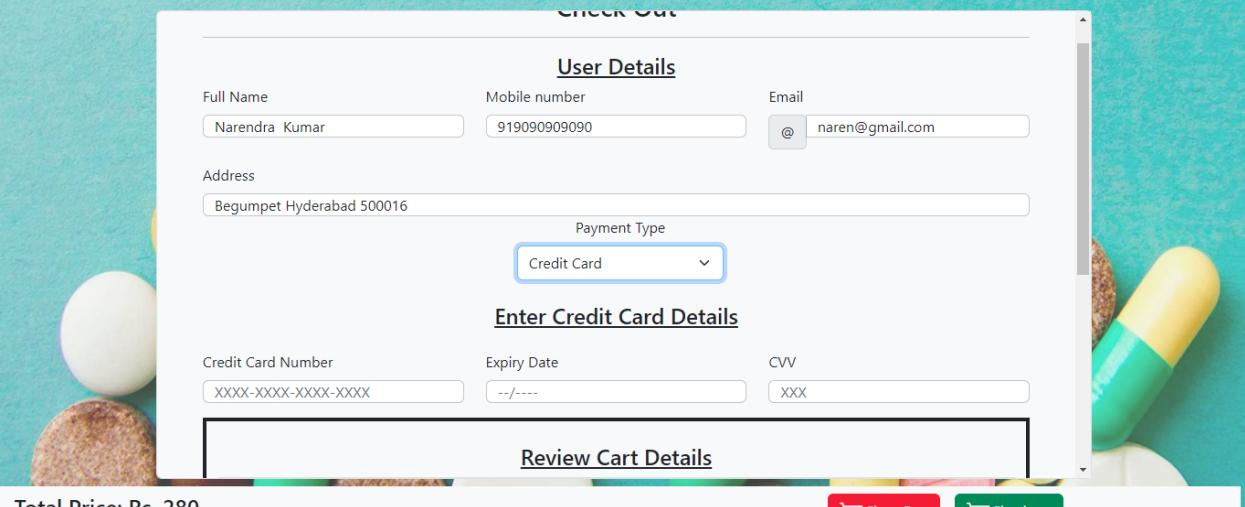
Expiry Date: --/----

CVV: XXX

Review Cart Details

Total Price: Rs. 280

Clear Cart Checkout



Windows taskbar: File Explorer, Task View, Start, Taskbar icons, 3:05 PM, 5/21/2023, Notepad icon.

## Order Summary Page

The screenshot shows a web browser window for a React App at localhost:3000/order. The page has a teal header with the word "Medicare". On the right side of the header, it says "Signed in As: Narendra Kumar" and "Logout". Below the header, a message says "Your order Confirmed!". It includes a greeting "Hello," and a note that the order has been confirmed and will be shipped in the next two days. A table provides order details:

Order Date	Contact Number	Contact Email	Shipping Address
21/5/2023	919090909090	naren@gmail.com	Begumpet Hyderabad 500016

Below the table is another table showing the items ordered:

ID	Name	Seller	Quantity	Description	Price
5	Lisinopril	Sanofi	1	lisinopril 20mg	90
2	Naproxen	Roche	1	naproxen 500mg	77
6	Prednisone	Meck & Co	1	prednisone 20mg	113

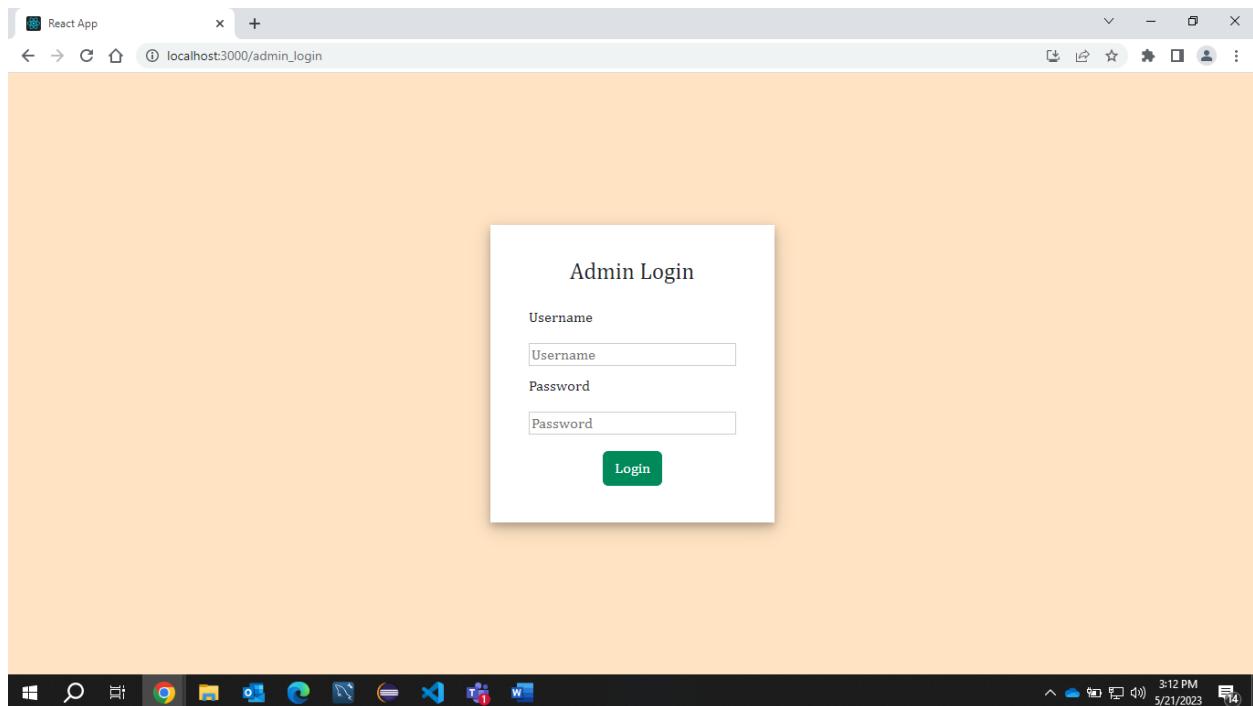
The total price is listed as Rs/-280. A note states that shipping confirmation emails will be sent once the items are shipped. The message concludes with "Thanks for Choosing us!" and "Medicare". At the bottom of the page is a "Back to Home" button.

Now cart will be empty ,Now go to admin Login

The screenshot shows a web browser window for a React App at localhost:3000/cart. The page has a teal header with the word "Medicare". On the right side of the header, there are buttons for "Sign in", "Cart", and "Admin Login". The main content area displays the message "Your Cart is Empty" over a background image of various colorful pills and capsules. Below this, there is a table with a single row and several columns:

ID	Name	Price	Seller	Quantity	Description	Actions

At the bottom of the page is a Windows taskbar with various icons and a system tray showing the date and time as 5/21/2023 3:12 PM.



## List of items in Admin Login

Sno	Product Name	Price	Seller	Description	Status	Actions
1	Aspirin	899	Pfizer	aspirin 81 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
2	Naproxen	77	Roche	naproxen 500 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
3	Prednisone	113	Merck & Co	prednisone 20 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
4	Buspirone	110	Novartis	buspirone 5 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
5	Lisinopril	90	Sanofi	lisinopril 20 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
6	Isosorbide mononitrate	290	Merck & Co	isosorbide mononitrate 20 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
7	Zolpidem	60	Pfizer	zolpidem 5 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
8	Terbinafine	90	Roche	terbinafine 250 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>

We can see 18 records now we will add some data

A screenshot of a web browser window titled "React App" showing the URL "localhost:3000/admin\_home". The page has an orange header bar with the text "Medicare Admin" and a "Logout" button. Below the header is a table listing 18 medicine records. Each record includes a number, name, price, seller, description, a status toggle switch, and "Update" and "Delete" buttons. The records are as follows:

8	Terbinafine	90	Roche	terbinafine 250 mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
9	Metformin	120	Sanofi	metformin 1000mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
10	Losartan	69	Novartis	losartan 100mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
11	iinsulin glargin	490	Merck & Co	iinsulin glargin 28 units	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
12	Gabapentin	110	Sanofi	gabapentin 600 mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
13	Citalopram	210	Merck & Co	citalopram 20 mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
14	Chlorthalidone	80	Sanofi	chlorthalidone 25mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
16	Carvedilol	80	Merck & Co	carvedilol 25mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
17	Beclomethasone HFA	79	Sanofi	b eclomethasone HFA 40 mcg/spray	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
18	S Albutamol	114	Novartis	s albutamol 90 mcg/spray	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>

## Adding sample data

A screenshot of a web browser window titled "React App" showing the URL "localhost:3000/createProduct". The page has an orange header bar with the text "Medicare Admin" and a "Logout" button. Below the header is a modal dialog titled "Add Medicine". The form contains fields for Name (Parastimala), Seller (Pfizer), Price (20), Description (Tablet commonly used for fever), and Status (a dropdown menu with options "Select", "Available", and "Not Available", where "Available" is selected). The status dropdown is highlighted with a blue selection bar.

## As you can see Data is added

The screenshot shows a web application titled "Medicare Admin" with a "Logout" button in the top right corner. Below the title is a table listing ten medicines. Each row contains the following columns: Sno, Product Name, Price, Seller, Description, Status (a toggle switch), Update button, and Delete button. The medicines listed are:

Sno	Product Name	Price	Seller	Description	Status	Action	Action
9	Metformin	120	Sanofi	metformin 1000mg	<input checked="" type="checkbox"/>	Update	Delete
10	Losartan	69	Novartis	losartan 100mg	<input checked="" type="checkbox"/>	Update	Delete
11	Iinsulin glargine	490	Merck & Co	iinsulin glargine 28 units	<input checked="" type="checkbox"/>	Update	Delete
12	Gabapentin	110	Sanofi	gabapentin 600 mg	<input checked="" type="checkbox"/>	Update	Delete
13	Citalopram	210	Merck & Co	citalopram 20 mg	<input checked="" type="checkbox"/>	Update	Delete
14	Chlorthalidone	80	Sanofi	chlorthalidone 25mg	<input checked="" type="checkbox"/>	Update	Delete
16	Carvedilol	80	Merck & Co	carvedilol 25mg	<input checked="" type="checkbox"/>	Update	Delete
17	Beclomethasone HFA	79	Sanofi	b eclomethasone HFA 40 mcg/spray	<input checked="" type="checkbox"/>	Update	Delete
18	S Albutamol	114	Novartis	s albutamol 90 mcg/spray	<input checked="" type="checkbox"/>	Update	Delete
19	Parastimala	20	Pfizer	Tablet commonly used for fever	<input checked="" type="checkbox"/>	Update	Delete

If I toggle status button in admin that Product will not be visible for user as it will be unavailable

The screenshot shows the same "Medicare Admin" dashboard as the previous one, but with a different set of eight medicines listed. The columns are identical: Sno, Product Name, Price, Seller, Description, Status (with a crossed-out checkmark), Update button, and Delete button. The medicines listed are:

Sno	Product Name	Price	Seller	Description	Status	Action	Action
1	Aspirin	899	Pfizer	aspirin 81 mg	<input checked="" type="checkbox"/>	Update	Delete
2	Naproxen	77	Roche	naproxen 500 mg	<input checked="" type="checkbox"/>	Update	Delete
3	Prednisone	113	Merck & Co	prednisone 20 mg	<input checked="" type="checkbox"/>	Update	Delete
4	Buspirone	110	Novartis	buspirone 5 mg	<input checked="" type="checkbox"/>	Update	Delete
5	Lisinopril	90	Sanofi	lisinopril 20 mg	<input checked="" type="checkbox"/>	Update	Delete
6	Isosorbide mononitrate	290	Merck & Co	isosorbide mononitrate 20 mg	<input checked="" type="checkbox"/>	Update	Delete
7	Zolpidem	60	Pfizer	zolpidem 5 mg	<input checked="" type="checkbox"/>	Update	Delete
8	Terbinafine	90	Roche	terbinafine 250 mg	<input checked="" type="checkbox"/>	Update	Delete

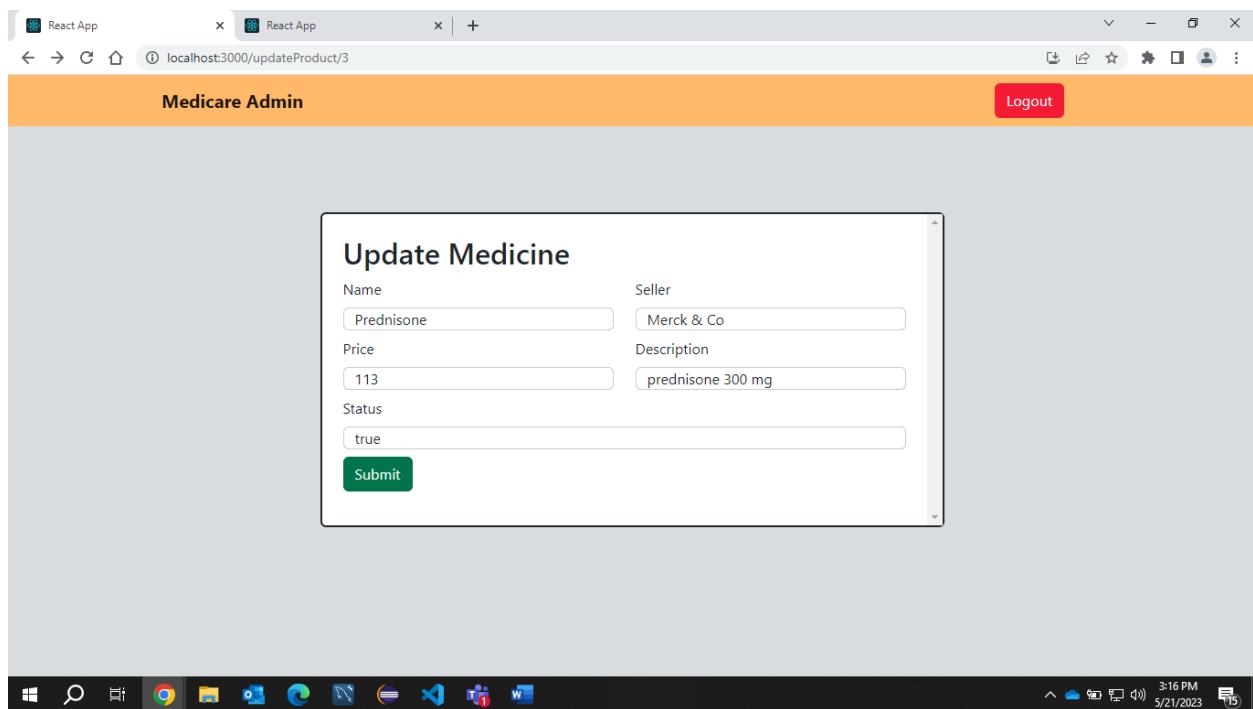
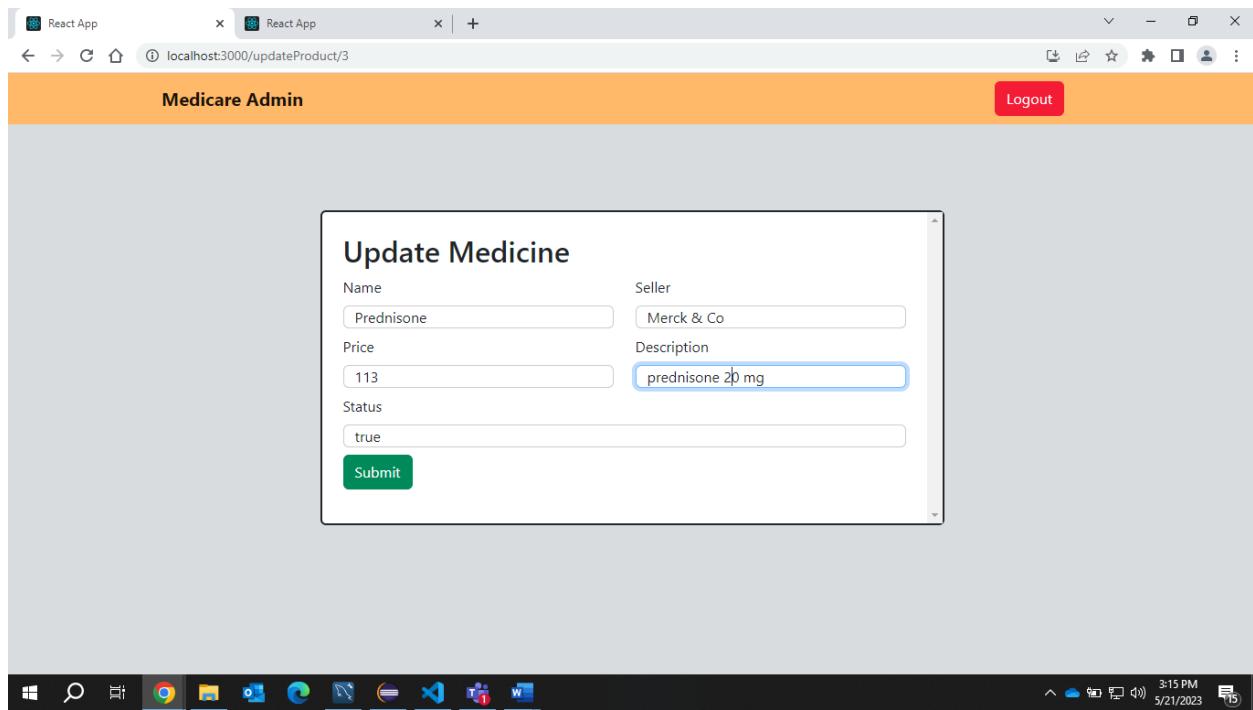
## Product 1 is disappeared as it was set off in admin

The screenshot shows the Medicare app's home page. At the top, there are two tabs labeled "React App". Below the tabs, the URL "localhost:3000/home" is visible. The header includes a "Medicare" logo, a "Sign in" button, a "Cart" icon, and an "Admin Login" button. The main content area is titled "Search products" and features a search bar with a magnifying glass icon and the placeholder "Search". Below the search bar, there is a grid of product cards. The first card (Sno 2) contains the following details:  
Name: Naproxen  
Price: Rs. 77  
Seller: Roche  
Description: naproxen 500 mg  
A blue "Add to cart" button is located at the bottom right of this card. The other cards in the grid show similar product information, such as Prednisone, Buspirone, Lisinopril, Isosorbide mononitrate, and Zolpidem. Each card has its own "Add to cart" button.

## Updating 3 rd item

The screenshot shows the Medicare Admin page. At the top, there are two tabs labeled "React App". Below the tabs, the URL "localhost:3000/admin\_home" is visible. The header includes a "Medicare Admin" logo and a "Logout" button. The main content area is titled "List of Medicines" and displays a table of medicine items. The table has columns: Sno, Product Name, Price, Seller, Description, Status, and Actions. The "Status" column contains checkboxes. The "Actions" column contains "Update" and "Delete" buttons. The data in the table is as follows:

Sno	Product Name	Price	Seller	Description	Status	Actions
1	Aspirin	899	Pfizer	aspirin 81 mg	<input type="checkbox"/>	<button>Update</button> <button>Delete</button>
2	Naproxen	77	Roche	naproxen 500 mg	<input type="checkbox"/>	<button>Update</button> <button>Delete</button>
3	Prednisone	113	Merck & Co	prednisone 20 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
4	Buspirone	110	Novartis	buspirone 5 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
5	Lisinopril	90	Sanofi	lisinopril 20 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
6	Isosorbide mononitrate	290	Merck & Co	isosorbide mononitrate 20 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
7	Zolpidem	60	Pfizer	zolpidem 5 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
8	Terbinafine	90	Roche	terbinafine 250 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>



The screenshot shows a React application titled "Medicare Admin" running on localhost:3000/admin\_home. The main title "Medicare Admin" is at the top left, and a "Logout" button is at the top right. Below the header is a table titled "List of Medicines". The table has columns: Sno, Product Name, Price, Seller, Description, Status, and Actions. Each row contains a medicine entry with its details and status indicators. The "Actions" column includes "Update" and "Delete" buttons.

Sno	Product Name	Price	Seller	Description	Status	Actions
1	Aspirin	899	Pfizer	aspirin 81 mg	<input type="checkbox"/>	<button>Update</button> <button>Delete</button>
2	Naproxen	77	Roche	naproxen 500 mg	<input type="checkbox"/>	<button>Update</button> <button>Delete</button>
3	Prednisone	113	Merck & Co	prednisone 300 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
4	Buspirone	110	Novartis	buspirone 5 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
5	Lisinopril	90	Sanofi	lisinopril 20 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
6	Isosorbide mononitrate	290	Merck & Co	isosorbide mononitrate 20 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
7	Zolpidem	60	Pfizer	zolpidem 5 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
8	Terbinafine	90	Roche	terbinafine 250 mg	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>

## **Deleting 19<sup>th</sup> item**

Medicare Admin

Logout

9	Metformin	120	Sanofi	metformin 1000mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
10	Losartan	69	Novartis	losartan 100mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
11	linsulin glargine	490	Merck & Co	iinsulin glargine 28 units	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
12	Gabapentin	110	Sanofi	gabapentin 600 mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
13	Citalopram	210	Merck & Co	citalopram 20 mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
14	Chlorthalidone	80	Sanofi	chlorthalidone 25mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
16	Carvedilol	80	Merck & Co	carvedilol 25mg	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
17	Beclomethasone HFA	79	Sanofi	b eclomethasone HFA 40 mcg/spray	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
18	S Albutamol	114	Novartis	s albutamol 90 mcg/spray	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>
19	Parastimala	20	Pfizer	Tablet commonly used for fever	<input checked="" type="checkbox"/>	<button>Update</button>	<button>Delete</button>

React App React App + localhost:3000/admin\_home

Medicare Admin Logout

localhost:3000 says Medicine Data Deleted

OK

	Medicine ID	Medicine Name	Quantity	Supplier	Description	Action	Action	
9	Metformin	120				<input checked="" type="checkbox"/>	Update	Delete
10	Losartan	69	Novartis	losartan 100mg		<input checked="" type="checkbox"/>	Update	Delete
11	linsulin glargine	490	Merck & Co	iinsulin glargine 28 units		<input checked="" type="checkbox"/>	Update	Delete
12	Gabapentin	110	Sanofi	gabapentin 600 mg		<input checked="" type="checkbox"/>	Update	Delete
13	Citalopram	210	Merck & Co	citalopram 20 mg		<input checked="" type="checkbox"/>	Update	Delete
14	Chlorthalidone	80	Sanofi	chlorthalidone 25mg		<input checked="" type="checkbox"/>	Update	Delete
16	Carvedilol	80	Merck & Co	carvedilol 25mg		<input checked="" type="checkbox"/>	Update	Delete
17	Beclomethasone HFA	79	Sanofi	b eclomethasone HFA 40 mcg/spray		<input checked="" type="checkbox"/>	Update	Delete
18	S Albutamol	114	Novartis	s albutamol 90 mcg/spray		<input checked="" type="checkbox"/>	Update	Delete
19	Parastimala	20	Pfizer	Tablet commonly used for fever		<input checked="" type="checkbox"/>	Update	Delete

3:16 PM 5/21/2023

React App React App + localhost:3000/admin\_home

Medicare Admin Logout

	Medicine ID	Medicine Name	Quantity	Supplier	Description	Action	Action	
8	Terbinafine	90	Roche	terbinafine 250 mg		<input checked="" type="checkbox"/>	Update	Delete
9	Metformin	120	Sanofi	metformin 1000mg		<input checked="" type="checkbox"/>	Update	Delete
10	Losartan	69	Novartis	losartan 100mg		<input checked="" type="checkbox"/>	Update	Delete
11	linsulin glargine	490	Merck & Co	iinsulin glargine 28 units		<input checked="" type="checkbox"/>	Update	Delete
12	Gabapentin	110	Sanofi	gabapentin 600 mg		<input checked="" type="checkbox"/>	Update	Delete
13	Citalopram	210	Merck & Co	citalopram 20 mg		<input checked="" type="checkbox"/>	Update	Delete
14	Chlorthalidone	80	Sanofi	chlorthalidone 25mg		<input checked="" type="checkbox"/>	Update	Delete
16	Carvedilol	80	Merck & Co	carvedilol 25mg		<input checked="" type="checkbox"/>	Update	Delete
17	Beclomethasone HFA	79	Sanofi	b eclomethasone HFA 40 mcg/spray		<input checked="" type="checkbox"/>	Update	Delete
18	S Albutamol	114	Novartis	s albutamol 90 mcg/spray		<input checked="" type="checkbox"/>	Update	Delete

3:16 PM 5/21/2023

## Now we will Deploy our Project in Aws EC2

The screenshot shows the AWS EC2 Management Console. The left sidebar is expanded, showing the 'Instances' section with 'Instances' selected. The main content area displays the 'Instances Info' table with the following columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. A search bar at the top of the table says 'Find instance by attribute or tag (case-sensitive)' with the filter 'Instance state = running'. Below the table, a message says 'No matching instances found'. At the bottom of the page, there is a 'Select an instance' dropdown menu.

## Creating a instance for running Mysql

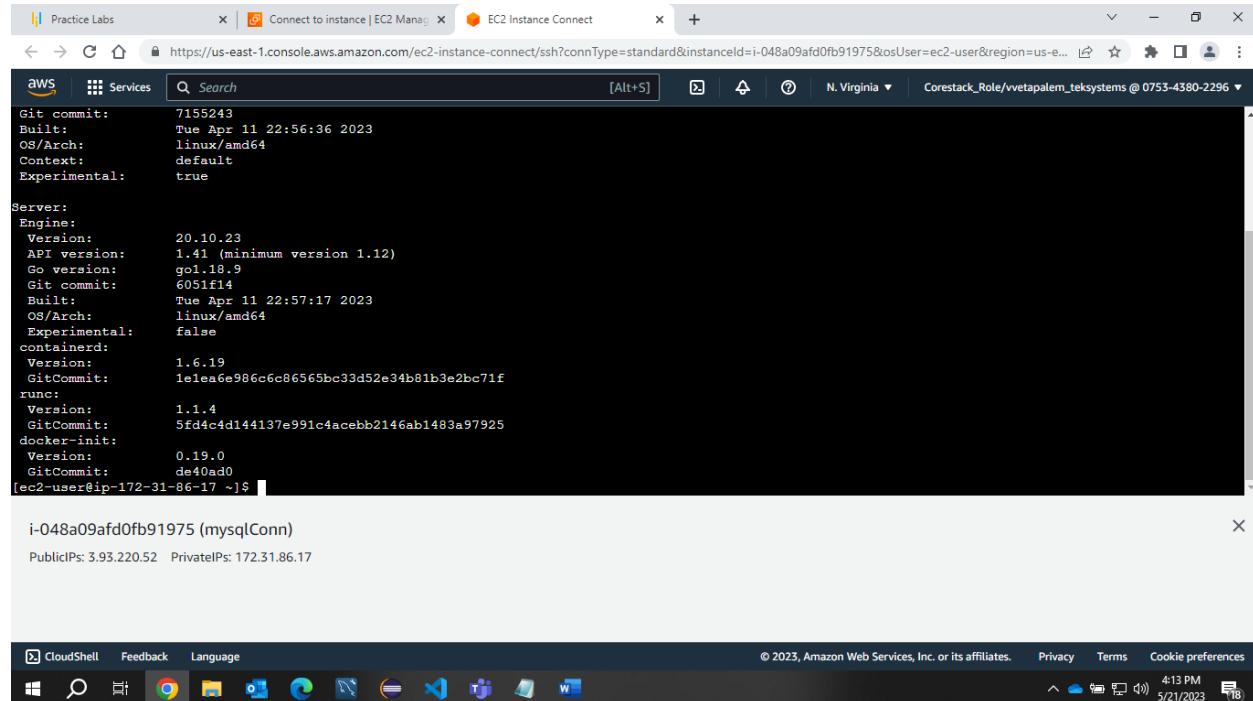
### Installing Docker

The screenshot shows the AWS EC2 Management Console. The left sidebar is expanded, showing the 'Instances' section with 'Instances' selected. The main content area displays the 'Instances (1/1) Info' table with the following data:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
mysqlConn	i-048a09af0fb91975	Running	t3.micro	Initializing	No alarms	us-east-1a

Below the table, a detailed view for the instance 'i-048a09af0fb91975 (mysqlConn)' is shown. The 'Details' tab is selected, displaying information such as Instance ID, Public IPv4 address (3.93.220.52), Private IPv4 addresses (172.31.86.17), Instance state (Running), and Public IPv4 DNS (ec2-3-93-220-52.compute-1.amazonaws.com). The bottom of the page shows a progress bar for 'Waiting for us-east-1.console.aws.amazon.com...' and the standard AWS footer.

## Docker is installed

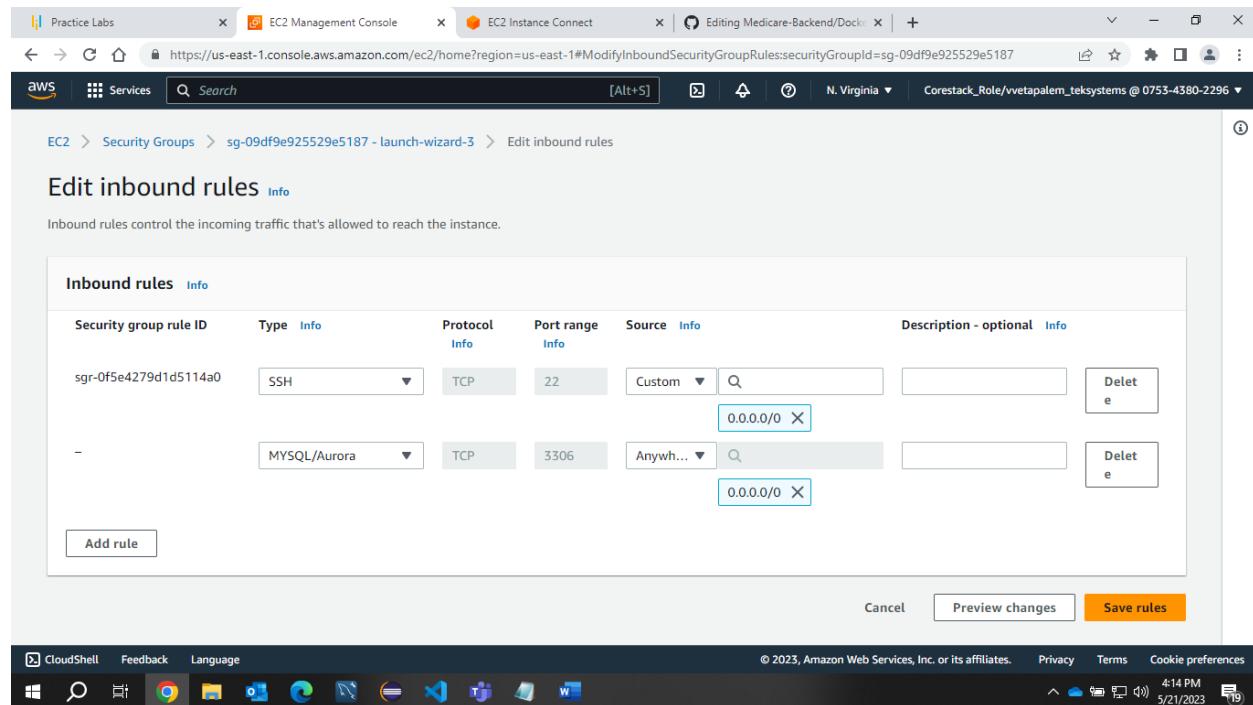


```
Git commit: 7155243
Built: Tue Apr 11 22:56:36 2023
OS/Arch: linux/amd64
Context: default
Experimental: true

Server:
Engine:
Version: 20.10.23
API version: 1.41 (minimum version 1.12)
Go version: go1.18.9
Git commit: 6051f14
Built: Tue Apr 11 22:57:17 2023
OS/Arch: linux/amd64
Experimental: false
containerd:
Version: 1.6.19
GitCommit: leleaa6e986c6c86565bc33d52e34b81b3e2bc71f
runc:
Version: 1.1.4
GitCommit: 5fd4c4d144137e991c4acebb2146ab1483a97925
docker-init:
Version: 0.19.0
GitCommit: de40ad0
[ec2-user@ip-172-31-86-17 ~]$ 
```

i-048a09af0fb91975 (mysqlConn)  
Public IPs: 3.93.220.52 Private IPs: 172.31.86.17

## Adding 3306 port as mysql runs on that port



Editing Medicare-Backend/Dock... | +

EC2 > Security Groups > sg-09df9e925529e5187 - launch-wizard-3 > Edit inbound rules

Edit inbound rules [Info](#)

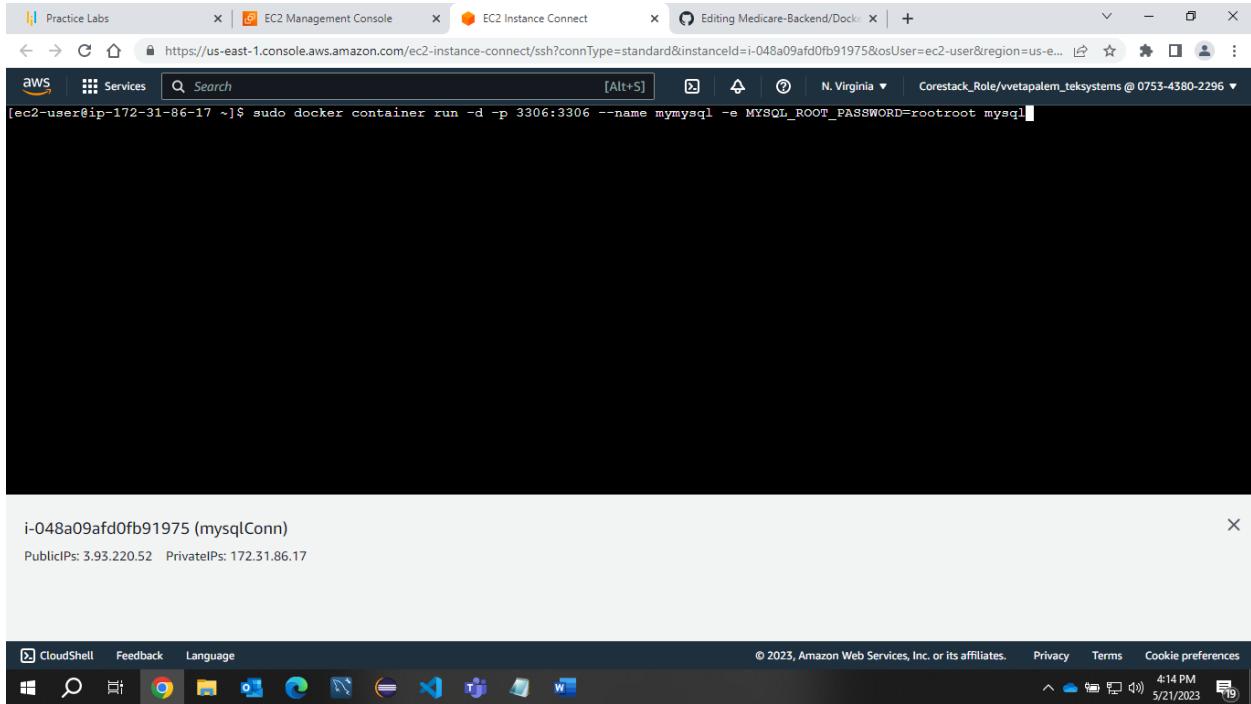
Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>	Delete	
sgr-0f5e4279d1d5114a0	SSH	TCP	22	Custom ▾	Q	<input type="text" value="0.0.0.0"/> X	<a href="#">Delete</a>
-	MYSQL/Aurora	TCP	3306	Anywh... ▾	Q	<input type="text" value="0.0.0.0"/> X	<a href="#">Delete</a>

[Add rule](#)

Cancel [Preview changes](#) [Save rules](#)

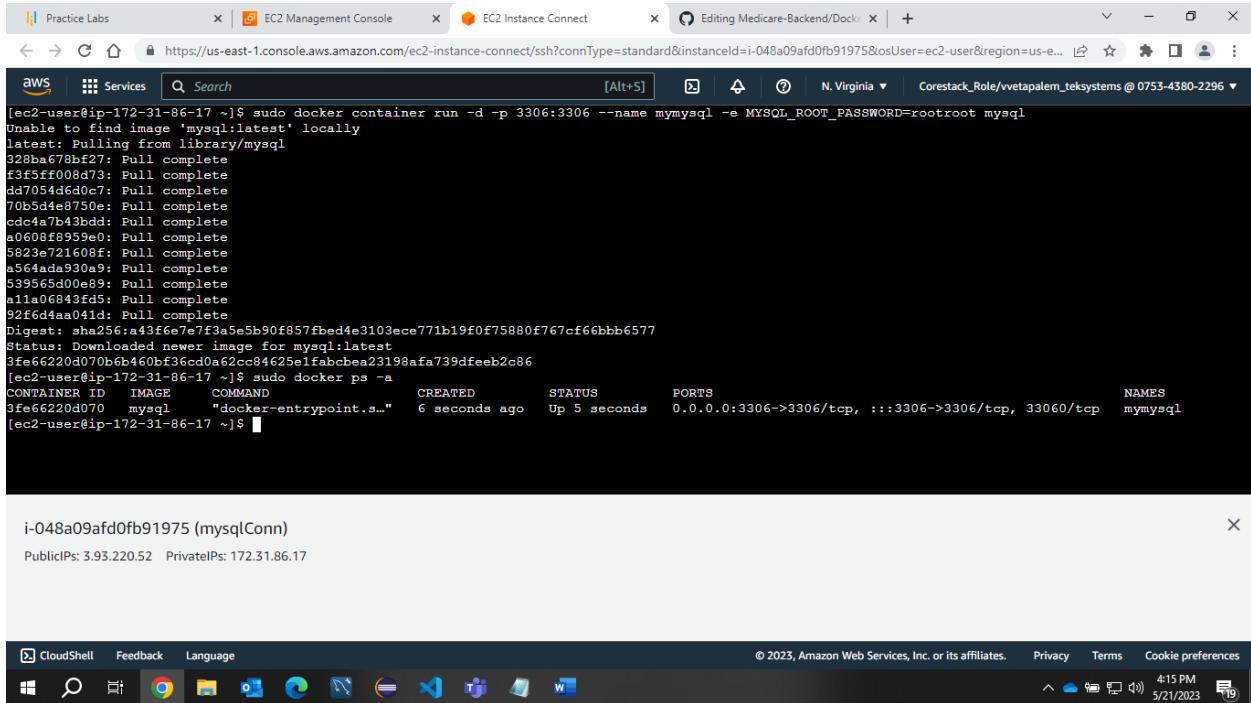
## Dockerizing Mysql in the Ec2 Instance



```
[ec2-user@ip-172-31-86-17 ~]$ sudo docker container run -d -p 3306:3306 --name mymysql -e MYSQL_ROOT_PASSWORD=rootroot mysql
```

i-048a09afd0fb91975 (mysqlConn)  
Public IPs: 3.93.220.52 Private IPs: 172.31.86.17

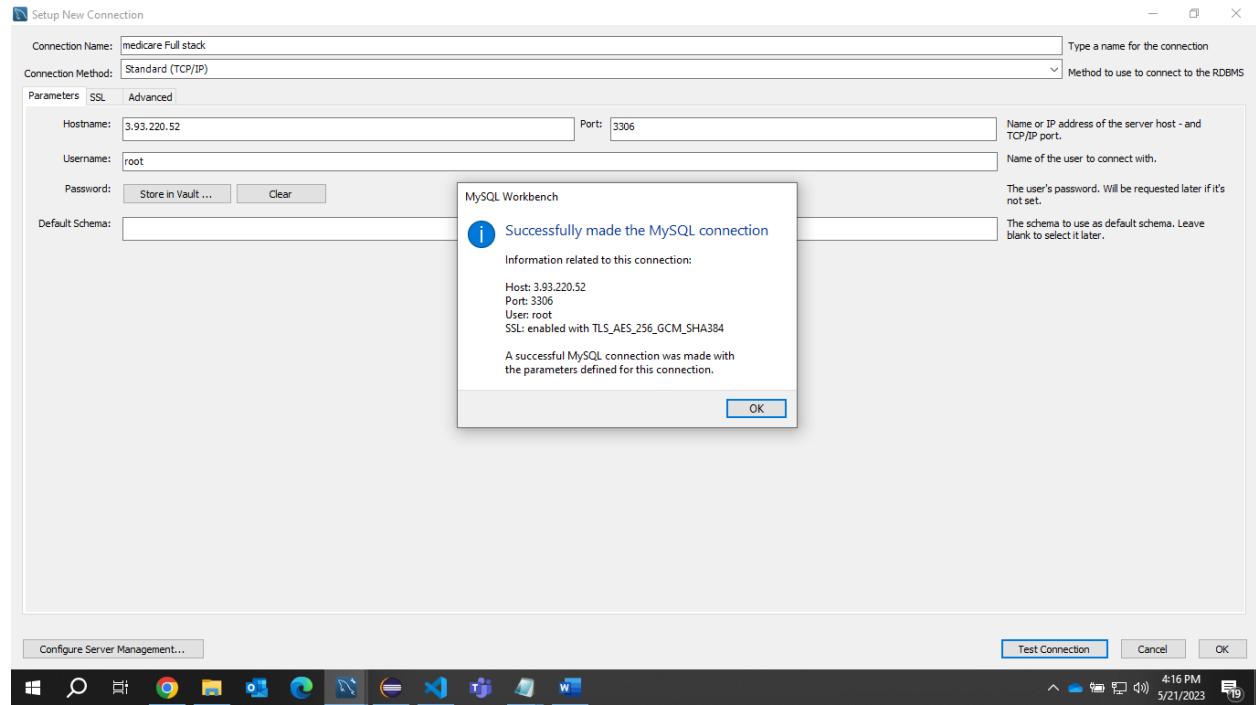
As you can see it is running in 3306 port



```
[ec2-user@ip-172-31-86-17 ~]$ sudo docker container run -d -p 3306:3306 --name mymysql -e MYSQL_ROOT_PASSWORD=rootroot mysql
Unable to find image 'mysql:latest' locally
latest: Pulling from library/mysql
329baa78bf27: Full complete
f3f5ff008d73: Full complete
dd7054d6d0c7: Full complete
70b5d4ee8750e: Full complete
cdc4a7b43bdd: Full complete
a0608f8959e0: Full complete
5823e721608f: Full complete
a564ada930a9: Full complete
539565d00e89: Full complete
alla06843fd5: Full complete
92f6d4aa041d: Full complete
Digest: sha256:a43f6e7e7f3a5e5b90f857fbed4e3103ece771b19f0f75880f767cf66bbb6577
Status: Downloaded newer image for mysql:latest
3fe66220d070b6b460bf36cd0a62cc84625e1fabcb0e23198afa739dfeeb2c86
[ec2-user@ip-172-31-86-17 ~]$ sudo docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS                         NAMES
3fe66220d070        mysql              "docker-entrypoint.s..."   6 seconds ago      Up 5 seconds       0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp   mymysql
[ec2-user@ip-172-31-86-17 ~]$
```

i-048a09afd0fb91975 (mysqlConn)  
Public IPs: 3.93.220.52 Private IPs: 172.31.86.17

## I have connected to workBench



## Creating another instance for running Spring and React applications

A screenshot of the AWS EC2 Management Console. The left sidebar shows navigation options like 'EC2 Dashboard', 'Instances', 'Images', etc. The main area shows a table of instances. There are two entries: 'mysqlConn' (Instance ID: i-048a09afdf0fb91975, Status: Running, Type: t3.micro) and 'Medicare' (Instance ID: i-0b65d5770e00aa414, Status: Running, Type: t3.micro). Below the table, a detailed view is shown for the 'Medicare' instance. The 'Security' tab is selected, showing IAM Role (empty), Owner ID (075343802296), and Launch time (Sun May 21 2023 16:18:38 GMT+0530 (India Standard Time)). The 'Security groups' listed are 'sg-0cf73f57d1cd6d5fe (launch-wizard-4)' and 't3-standard-1'. The bottom of the screen shows the Windows taskbar with various pinned icons.

## We are installing java ,mvn ,Docker in the new instance

```
java req for aws - Notepad
File Edit Format View Help
#!/bin/bash

sudo yum update -y

# Install Java
sudo amazon-linux-extras install -y epel
sudo amazon-linux-extras install -y java-openjdk17
sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
sudo yum install -y epel-release
sudo yum install -y java-17-openjdk-devel
sudo /usr/sbin/alternatives --config java <<< '1'

# Install Maven
sudo wget http://repos.fedorapeople.org/repos/dchen/apache-maven/epel-apache-maven.repo -O /etc/yum.repos.d/epel-apache-maven.repo
sudo sed -i s/\$releasever/6/g /etc/yum.repos.d/epel-apache-maven.repo
sudo yum install -y apache-maven

# Install git
sudo yum install git -y

sudo yum install -y docker
sudo systemctl start docker
sudo systemctl enable docker

Ln 16, Col 1 80% Windows (CRLF) UTF-8
4:18 PM 5/21/2023
```

I have already pushed my Spring Backend code to github and created a Docker file

The screenshot shows a GitHub repository page for 'Naren487/Medicare-Backend'. The repository is public and contains 15 commits. The commit history includes updates to DefaultAuthConfiguration.java, .mvn/wrapper, src, .gitignore, Dockerfile, mvnw, mvnw.cmd, and pom.xml. The repository has 2 stars, 0 forks, and 0 releases published. There is a note to add a README and a link to publish the first package.

Naren487/Medicare-Backend

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file ▾ Code

Naren487 Update DefaultAuthConfiguration.java 56d0dee 6 hours ago 15 commits

.mvn/wrapper main 17 hours ago

src Update DefaultAuthConfiguration.java 6 hours ago

.gitignore main 17 hours ago

Dockerfile Update Dockerfile 6 hours ago

mvnw main 17 hours ago

mvnw.cmd main 17 hours ago

pom.xml main 17 hours ago

About

No description, website, or topics provided.

0 stars 2 watching 0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Help people interested in this repository understand your project by adding a README. Add a README

Ln 16, Col 1 80% Windows (CRLF) UTF-8
4:18 PM 5/21/2023

## This is the dockerfile

The screenshot shows a web browser window with multiple tabs open. The active tab is 'Medicare-Backend/Dockerfile' on the GitHub page for the repository 'Naren487/Medicare-Backend'. The page displays the Dockerfile content:

```
FROM openjdk:17-slim
COPY target/Medicare-Backend-0.0.1-SNAPSHOT.jar app.jar
EXPOSE 8080
ENTRYPOINT ["java","-jar","-D spring.datasource.url=jdbc:mysql://3.93.220.52:3306/medicare","app.jar"]
```

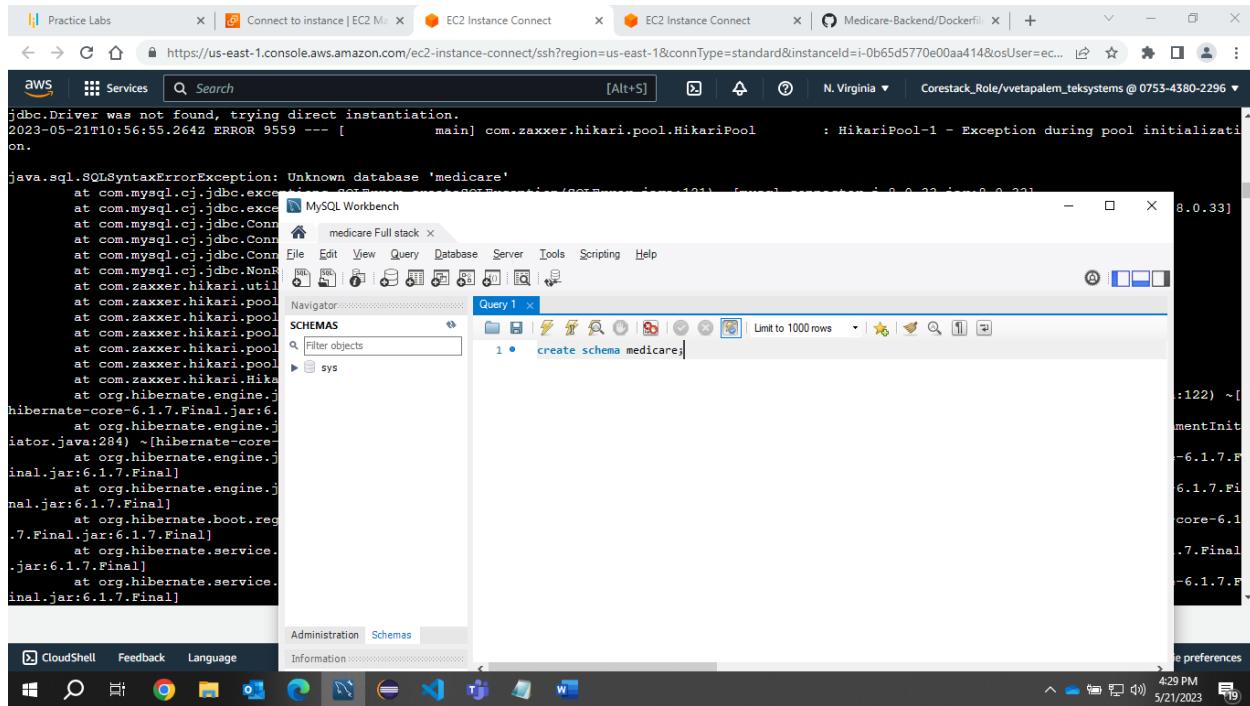
The left sidebar shows the repository structure with files like .mvn, src, .gitignore, Dockerfile (which is selected), mvnw, mvnw.cmd, and pom.xml.

## Cloning git repo

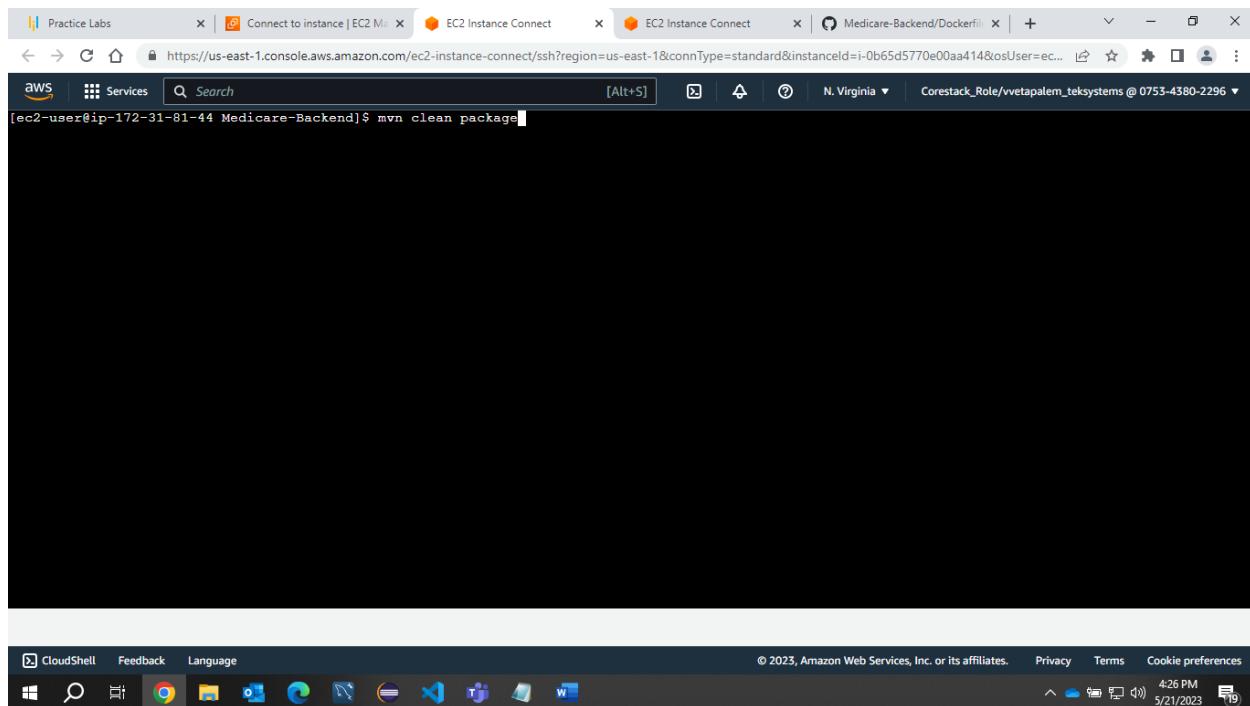
The screenshot shows an AWS CloudShell terminal window. The user has cloned the 'Medicare-Backend' repository from GitHub:

```
[ec2-user@ip-172-31-81-44 ~]$ git clone https://github.com/Naren487/Medicare-Backend.git
Cloning into 'Medicare-Backend'...
remote: Enumerating objects: 137, done.
remote: Counting objects: 100% (137/137), done.
remote: Compressing objects: 100% (104/104), done.
remote: Total 137 (delta 38), reused 48 (delta 7), pack-reused 0
Receiving objects: 100% (137/137), 76.11 KiB | 12.68 MiB/s, done.
Resolving deltas: 100% (38/38), done.
[ec2-user@ip-172-31-81-44 ~]$ ls -al
total 12
drwxr-x--- 4 ec2-user ec2-user 98 May 21 10:55 .
drwxr-xr-x 3 root root 22 May 21 10:48 ..
-rw-r--r-- 1 ec2-user ec2-user 18 Jul 15 2020 .bash_logout
-rw-r--r-- 1 ec2-user ec2-user 193 Jul 15 2020 .bash_profile
-rw-r--r-- 1 ec2-user ec2-user 231 Jul 15 2020 .bashrc
drwxrwxr-x 5 ec2-user ec2-user 120 May 21 10:55 Medicare-Backend
drwxrwxr-x 2 ec2-user ec2-user 29 May 21 10:48 .ssh
[ec2-user@ip-172-31-81-44 ~]$ cd Medicare-Backend
[ec2-user@ip-172-31-81-44 Medicare-Backend]$ ls -al
total 32
drwxrwxr-x 5 ec2-user ec2-user 120 May 21 10:55 .
drwxrwxr-x 4 ec2-user ec2-user 98 May 21 10:55 ..
-rw-rw-r-- 1 ec2-user ec2-user 193 May 21 10:55 Dockerfile
drwxrwxr-x 8 ec2-user ec2-user 163 May 21 10:55 .git
-rw-rw-r-- 1 ec2-user ec2-user 395 May 21 10:55 .gitignore
drwxrwxr-x 3 ec2-user ec2-user 21 May 21 10:55 .mvn
-rw-rw-r-- 1 ec2-user ec2-user 10284 May 21 10:55 mvnw
-rw-rw-r-- 1 ec2-user ec2-user 6734 May 21 10:55 mvnw.cmd
-rw-rw-r-- 1 ec2-user ec2-user 1519 May 21 10:55 pom.xml
drwxrwxr-x 4 ec2-user ec2-user 30 May 21 10:55 src
[ec2-user@ip-172-31-81-44 Medicare-Backend]$ ]
```

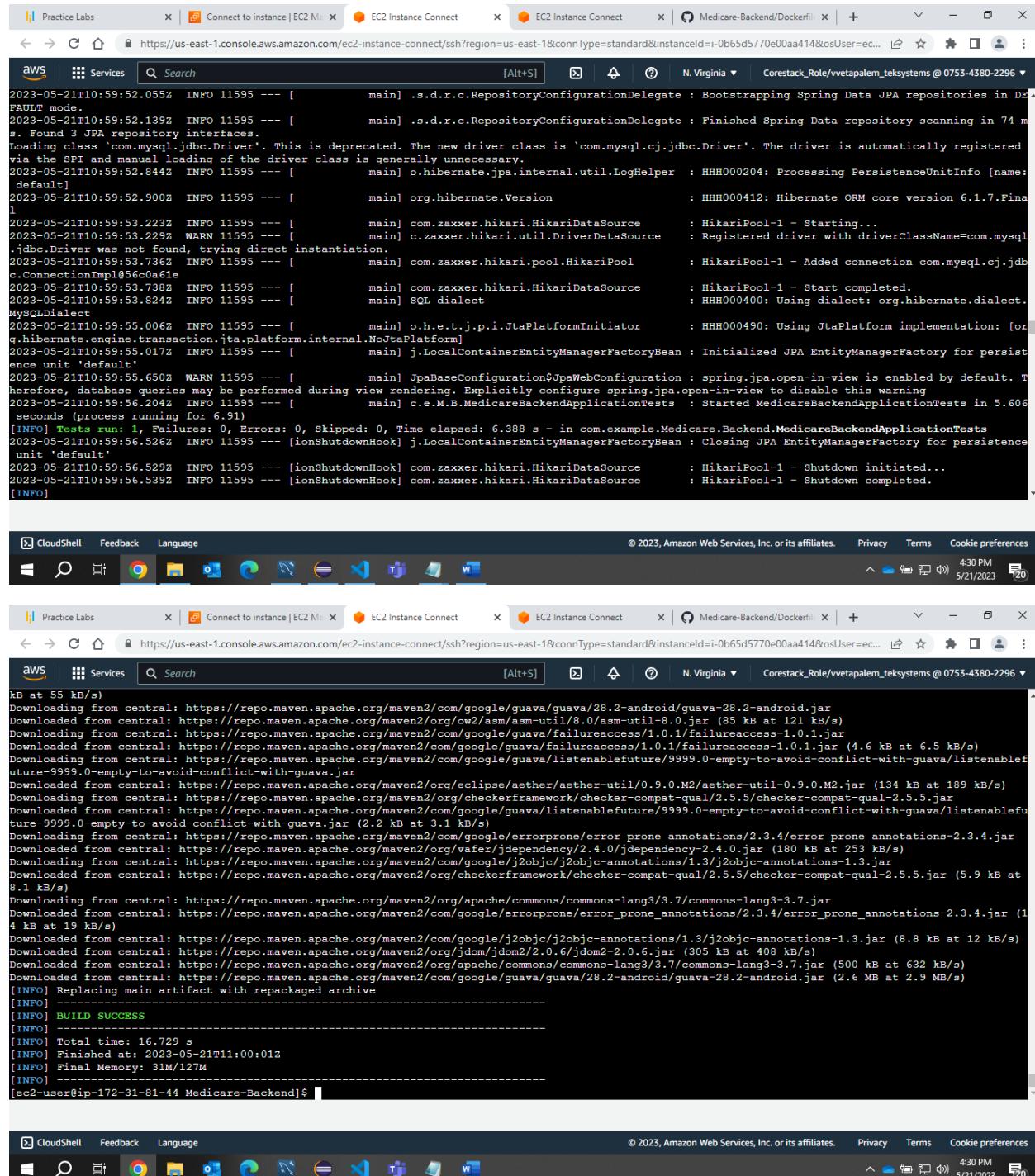
## Creating a Database medicare



## Building jar file



## Build Success



The screenshot shows three vertically stacked terminal windows from the AWS CloudShell interface. Each window has a header bar with tabs for 'Practice Labs', 'Connect to instance | EC2 M...', 'EC2 Instance Connect', 'Medicare-Backend/Dockerfile', and a '+' button. The status bar at the bottom of each window shows the region as 'N. Virginia' and the user as 'Corestack\_Role/vvetapalem\_teksystems @ 0753-4380-2296'. The windows contain the following log output:

**Top Window (Build Log):**

```
2023-05-21T10:59:52.055Z INFO 11595 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DB mode.
2023-05-21T10:59:52.139Z INFO 11595 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 74 ms.
s. Found 3 JPA repository interfaces.
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is generally unnecessary.
2023-05-21T10:59:52.844Z INFO 11595 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]
2023-05-21T10:59:52.900Z INFO 11595 --- [main] org.hibernate.Version : HHH000412: Hibernate ORM core version 6.1.7.Final
2023-05-21T10:59:53.223Z INFO 11595 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2023-05-21T10:59:53.229Z WARN 11595 --- [main] c.zaxxer.hikari.util.DriverDataSource : Registered driver with driverClassName=com.mysql.jdbc.Driver was not found, trying direct instantiation.
2023-05-21T10:59:53.736Z INFO 11595 --- [main] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Added connection com.mysql.cj.jdbc.ConnectionImpl@856c0a1e
2023-05-21T10:59:53.738Z INFO 11595 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2023-05-21T10:59:53.824Z INFO 11595 --- [main] SQL dialect : HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
2023-05-21T10:59:55.006Z INFO 11595 --- [main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2023-05-21T10:59:55.017Z INFO 11595 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2023-05-21T10:59:55.650Z WARN 11595 --- [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
2023-05-21T10:59:56.204Z INFO 11595 --- [main] c.e.M.B.MedicareBackendApplicationTests : Started MedicareBackendApplicationTests in 5.606 seconds (process running for 6.91)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 6.388 s - in com.example.MedicareBackend.MedicareBackendApplicationTests
2023-05-21T10:59:56.526Z INFO 11595 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2023-05-21T10:59:56.529Z INFO 11595 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...
2023-05-21T10:59:56.539Z INFO 11595 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.
[INFO]
```

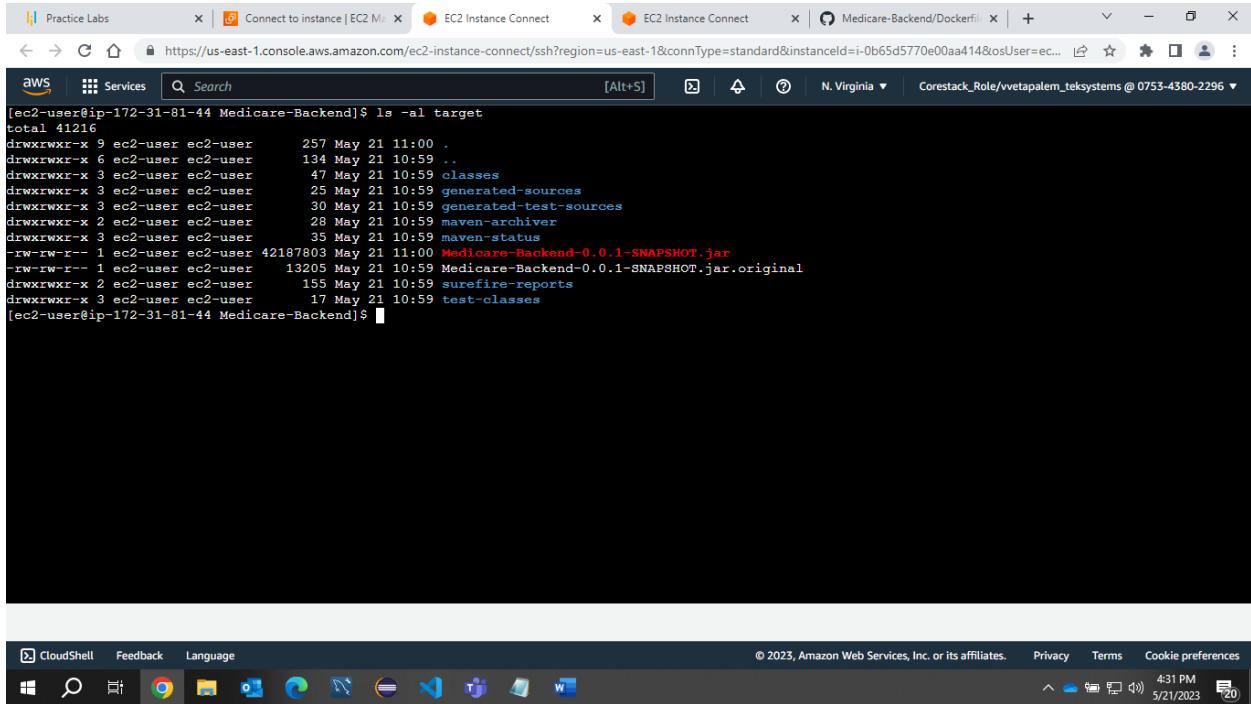
**Middle Window (Build Log):**

```
kB at 55 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/google/guava/guava/28.2-android/guava-28.2-android.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/asm/asm-util/8.0/asm-util-8.0.jar (85 kB at 121 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/google/guava/failureaccess/1.0.1/failureaccess-1.0.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/guava/failureaccess/1.0.1/failureaccess-1.0.1.jar (4.6 kB at 6.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/google/guava/listenablefuture/9999.0-empty-to-avoid-conflict-with-guava/listenablefuture-9999.0-empty-to-avoid-conflict-with-guava.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/eclipse/aether/aether-util/0.9.0.M2/aether-util-0.9.0.M2.jar (134 kB at 189 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/checkerframework/checker-compat-qual/2.5.5/checker-compat-qual-2.5.5.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/guava/listenablefuture/9999.0-empty-to-avoid-conflict-with-guava/listenablefuture-9999.0-empty-to-avoid-conflict-with-guava.jar (2.2 kB at 3.1 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/google/errorprone/error_prone_annotations/2.3.4/error_prone_annotations-2.3.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/wafer/jdependency/2.4.0/jdependency-2.4.0.jar (180 kB at 253 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/google/j2objc/j2objc-annotations/1.3/j2objc-annotations-1.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/checkerframework/checker-compat-qual/2.5.5/checker-compat-qual-2.5.5.jar (5.9 kB at 8.1 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-lang3/3.7/commons-lang3-3.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/errorprone/error_prone_annotations/2.3.4/error_prone_annotations-2.3.4.jar (14 kB at 19 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/j2objc/j2objc-annotations/1.3/j2objc-annotations-1.3.jar (8.8 kB at 12 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/jdom/jdom2/2.0.6/jdom2-2.0.6.jar (305 kB at 408 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-lang3/3.7/commons-lang3-3.7.jar (500 kB at 632 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/guava/guava/28.2-android/guava-28.2-android.jar (2.6 MB at 2.9 MB/s)
[INFO] Replacing main artifact with repackaged archive
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 16.729 s
[INFO] Finished at: 2023-05-21T11:00:01Z
[INFO] Final Memory: 31M/127M
[INFO] -----
```

**Bottom Window (Build Log):**

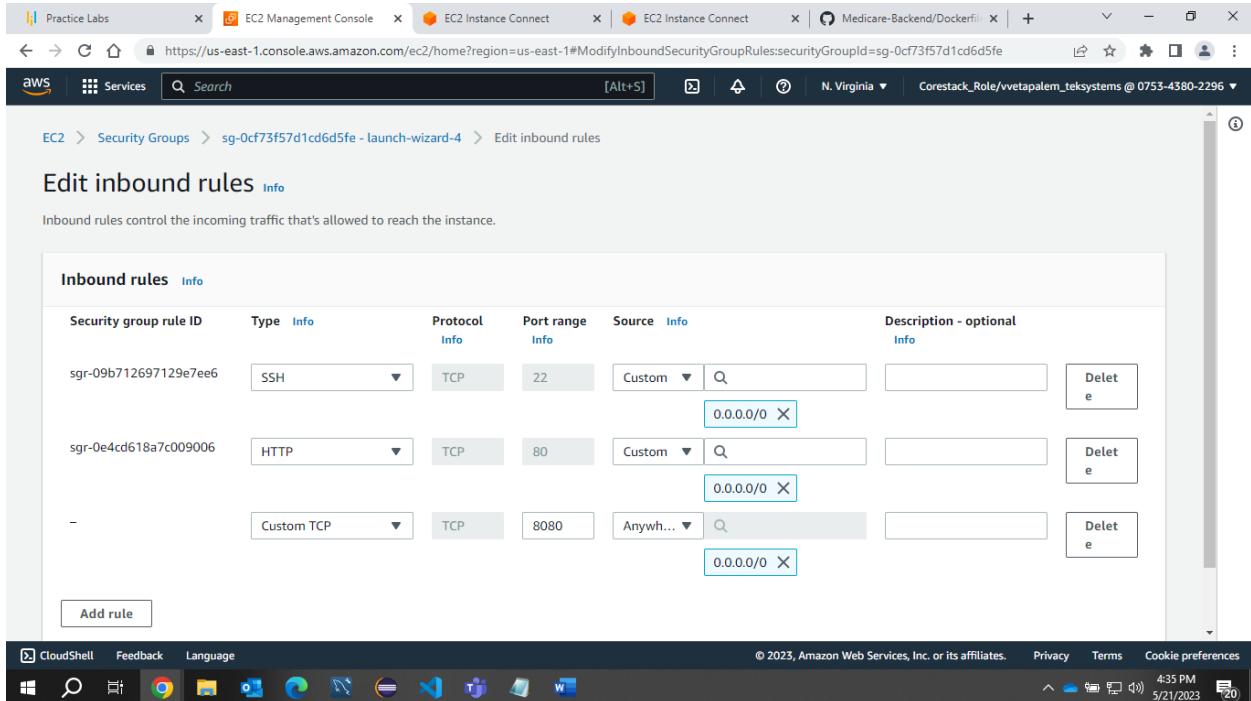
```
[ec2-user@ip-172-31-81-44 Medicare-Backend]$
```

## Jar file is Generated



```
[ec2-user@ip-172-31-81-44 Medicare-Backend]$ ls -al target
total 41216
drwxrwxr-x 9 ec2-user ec2-user 257 May 21 11:00 .
drwxrwxr-x 6 ec2-user ec2-user 134 May 21 10:59 ..
drwxrwxr-x 3 ec2-user ec2-user 47 May 21 10:59 classes
drwxrwxr-x 3 ec2-user ec2-user 25 May 21 10:59 generated-sources
drwxrwxr-x 3 ec2-user ec2-user 30 May 21 10:59 generated-test-sources
drwxrwxr-x 2 ec2-user ec2-user 28 May 21 10:59 maven-archiver
drwxrwxr-x 3 ec2-user ec2-user 35 May 21 10:59 maven-status
-rw-rw-r-- 1 ec2-user ec2-user 42187803 May 21 11:00 Medicare-Backend-0.0.1-SNAPSHOT.jar
-rw-rw-r-- 1 ec2-user ec2-user 13205 May 21 10:59 Medicare-Backend-0.0.1-SNAPSHOT.jar.original
drwxrwxr-x 2 ec2-user ec2-user 155 May 21 10:59 surefire-reports
drwxrwxr-x 3 ec2-user ec2-user 17 May 21 10:59 test-classes
[ec2-user@ip-172-31-81-44 Medicare-Backend]$
```

## Open the Port 8080

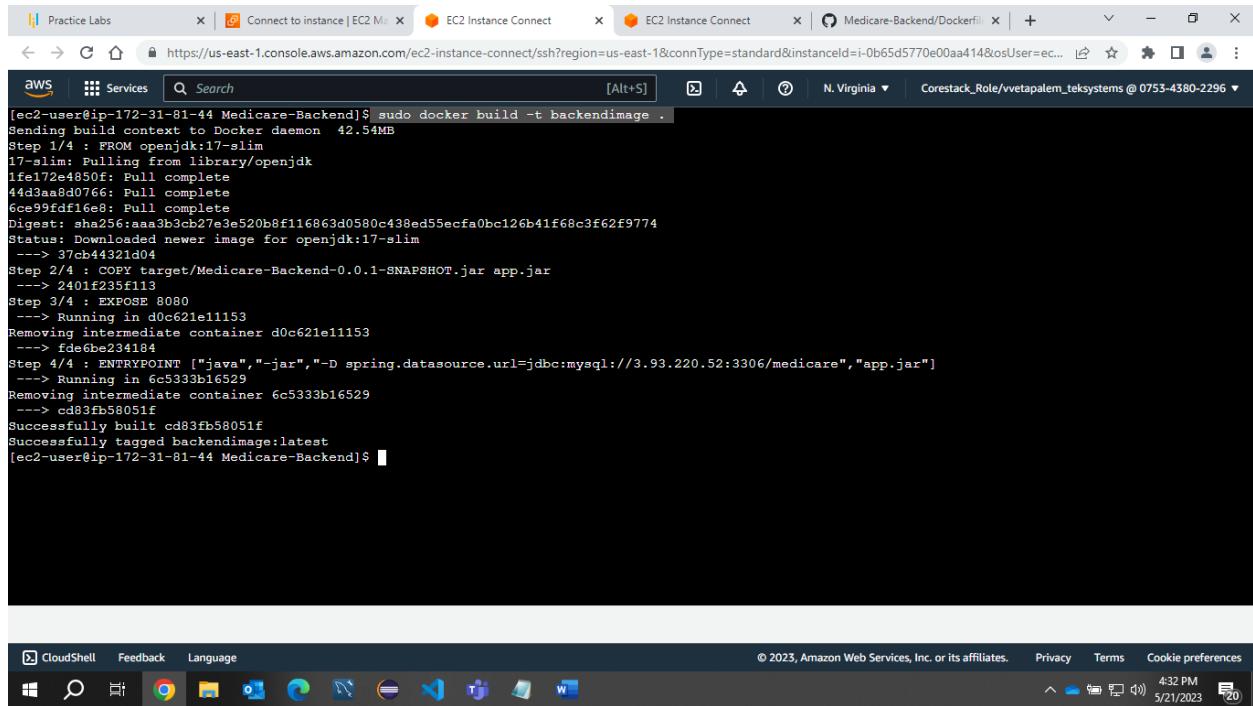


Inbound rules [Info](#)

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-09b712697129e7ee6	SSH	TCP	22	Custom 0.0.0.0/0	<a href="#">Delete</a>
sgr-0e4cd618a7c009006	HTTP	TCP	80	Custom 0.0.0.0/0	<a href="#">Delete</a>
-	Custom TCP	TCP	8080	Anywhere 0.0.0.0/0	<a href="#">Delete</a>

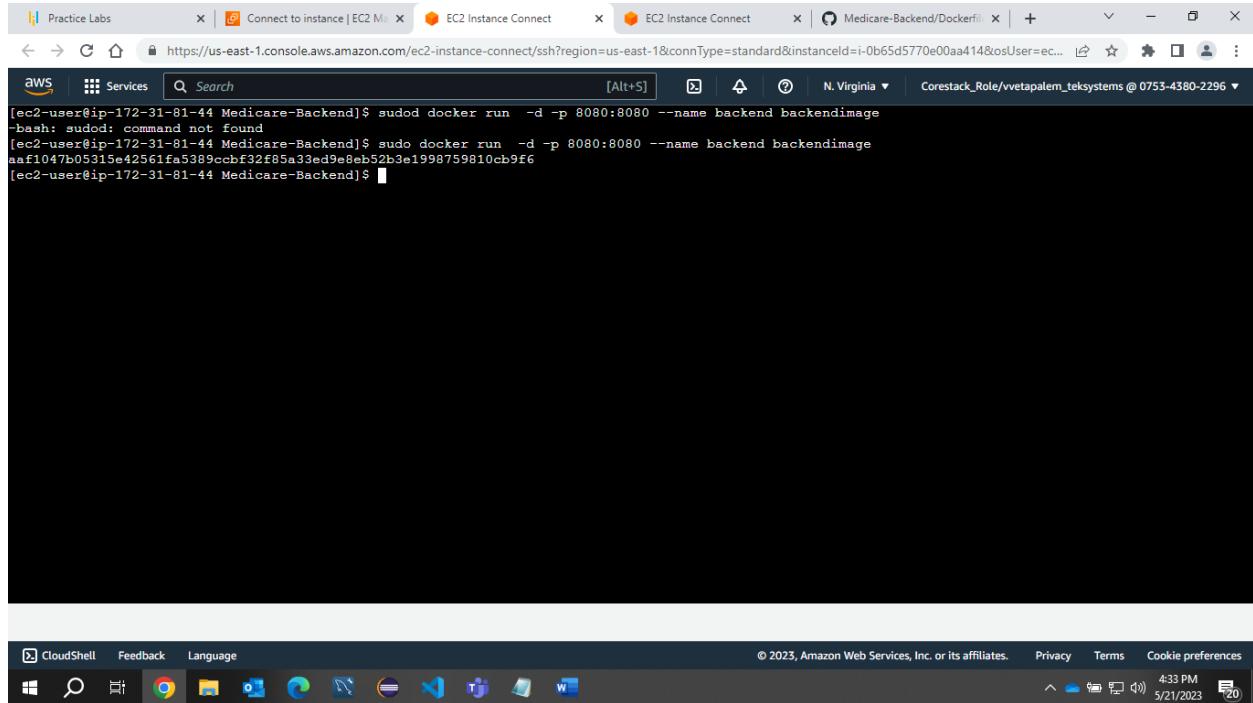
[Add rule](#)

## Created a Docker image for Backend app and run the Docker image



The screenshot shows a CloudShell terminal window with the AWS logo and services menu. The title bar indicates the session is connected to an EC2 instance in the N. Virginia region. The terminal window displays the command `sudo docker build -t backendimage .` being run, followed by the output of the build process. The build successfully creates a Docker image named `backendimage:latest`.

```
[ec2-user@ip-172-31-81-44 Medicare-Backend]$ sudo docker build -t backendimage .
Sending build context to Docker daemon 42.54MB
Step 1/4 : FROM openjdk:17-slim
17-slim: Pulling from library/openjdk
1fe172e4850f: Pull complete
44d3aa8d0766: Pull complete
6ce99fdf16e8: Pull complete
Digest: sha256:aab3b3cb27e3e520b8f116863d0580c438ed55ecfa0bc126b41f68c3f62f9774
Status: Downloaded newer image for openjdk:17-slim
--> 37cb44321d04
Step 2/4 : COPY target/Medicare-Backend-0.0.1-SNAPSHOT.jar app.jar
--> 2401f235f113
Step 3/4 : EXPOSE 8080
--> Running in d0c621e11153
Removing intermediate container d0c621e11153
--> fde6be234184
Step 4/4 : ENTRYPOINT ["java",""-jar",""-D spring.datasource.url=jdbc:mysql://3.93.220.52:3306/medicare","app.jar"]
--> Running in 6c5333b16529
Removing intermediate container 6c5333b16529
--> cd83fb58051f
Successfully built cd83fb58051f
Successfully tagged backendimage:latest
[ec2-user@ip-172-31-81-44 Medicare-Backend]$
```



The screenshot shows a CloudShell terminal window with the AWS logo and services menu. The title bar indicates the session is connected to an EC2 instance in the N. Virginia region. The terminal window displays the command `sudo docker run -d -p 8080:8080 --name backend backendimage` being run twice, with the second attempt successful. The output shows the container ID `aaef1047b05315e42561fa5389ccbf322f85a33ed9e6eb52b3e1998759810cb9f6`.

```
[ec2-user@ip-172-31-81-44 Medicare-Backend]$ sudo docker run -d -p 8080:8080 --name backend backendimage
bash: sudo: command not found
[ec2-user@ip-172-31-81-44 Medicare-Backend]$ sudo docker run -d -p 8080:8080 --name backend backendimage
aaef1047b05315e42561fa5389ccbf322f85a33ed9e6eb52b3e1998759810cb9f6
[ec2-user@ip-172-31-81-44 Medicare-Backend]$
```

## Medicare Backed Application is successfully running in port 8080

```
[ec2-user@ip-172-31-81-44 Medicare-Backend]$ sudo docker ps -a
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS
aaf1047b0531        backendimage       "java -jar '-D spring..."   21 seconds ago    Up 19 seconds      0.0.0.0:8080->8080/tcp, :::8080->8080/tcp   backend
[ec2-user@ip-172-31-81-44 Medicare-Backend]$
```

**Git Hub code For medicare front end**

Naren487 push

build	push	1 minute ago
public	push	17 hours ago
src	push	1 minute ago
.gitignore	push	17 hours ago
Dockerfile	push	17 hours ago
README.md	push	17 hours ago
package-lock.json	push	17 hours ago
package.json	push	1 minute ago

README.md

Watch Full Playlist

## Docker file for react

The screenshot shows a GitHub repository page for 'Medicare-FrontEnd' by user 'Naren487'. The 'Code' tab is selected, displaying the Dockerfile content:

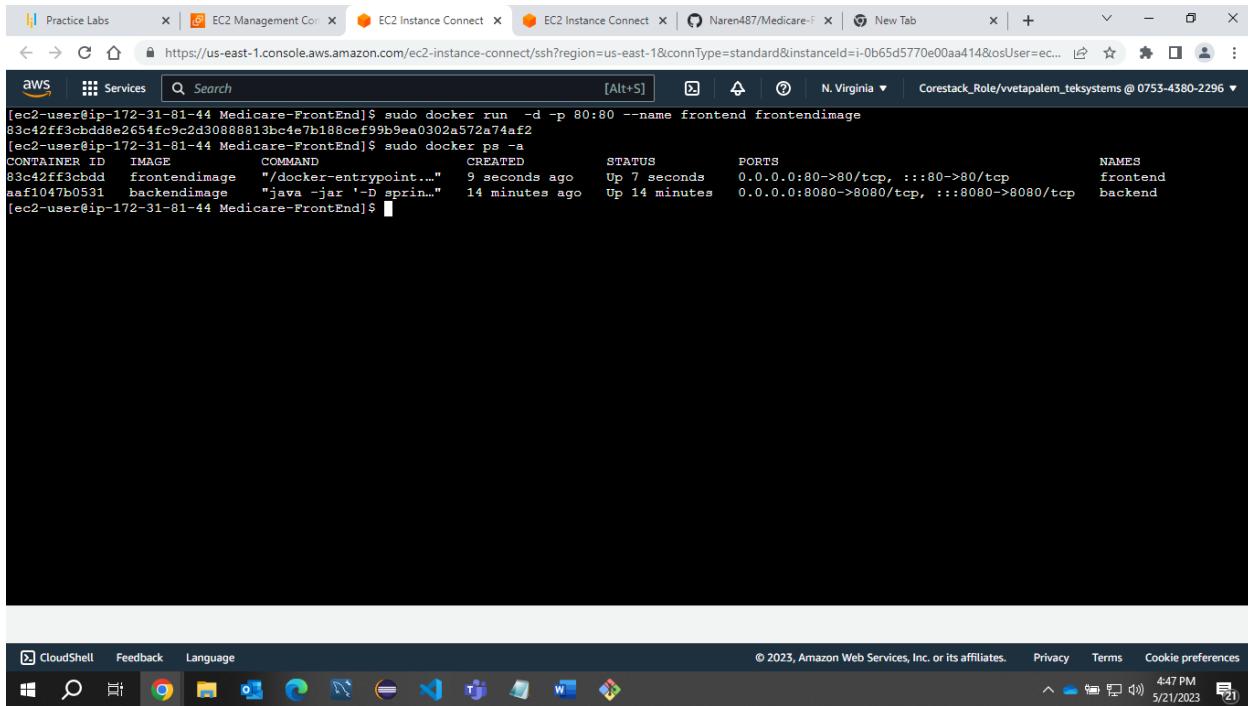
```
FROM nginx
COPY build/ /usr/share/nginx/html/
```

## Cloning react app

The screenshot shows an AWS CloudShell terminal session. The user is cloning a GitHub repository into their EC2 instance:

```
[ec2-user@ip-172-31-81-44 Medicare-Backend]$ git clone https://github.com/Naren487/Medicare-FrontEnd.git
Cloning into 'Medicare-FrontEnd'...
remote: Enumerating objects: 111, done.
remote: Counting objects: 100% (111/111), done.
remote: Compressing objects: 100% (67/67), done.
remote: Total 111 (delta 40), reused 111 (delta 40), pack-reused 0
Receiving objects: 100% (111/111), 4.95 MiB | 23.06 MiB/s, done.
Resolving deltas: 100% (40/40), done.
[ec2-user@ip-172-31-81-44 Medicare-Backend]$ cd Medicare-FrontEnd
[ec2-user@ip-172-31-81-44 Medicare-FrontEnd]$ ls -al
total 1208
drwxrwxr-x 6 ec2-user ec2-user 154 May 21 11:14 .
drwxrwxr-x 7 ec2-user ec2-user 159 May 21 11:14 ..
drwxrwxr-x 3 ec2-user ec2-user 161 May 21 11:14 build
-rw-rw-r-- 1 ec2-user ec2-user 45 May 21 11:14 Dockerfile
drwxrwxr-x 8 ec2-user ec2-user 163 May 21 11:14 .git
-rw-rw-r-- 1 ec2-user ec2-user 303 May 21 11:14 .gitignore
-rw-rw-r-- 1 ec2-user ec2-user 1211 May 21 11:14 package.json
drwxrwxr-x 2 ec2-user ec2-user 120 May 21 11:14 public
-rw-rw-r-- 1 ec2-user ec2-user 3559 May 21 11:14 README.md
drwxrwxr-x 5 ec2-user ec2-user 195 May 21 11:14 src
```

## Running react app with dockerFile



```
[ec2-user@ip-172-31-81-44 Medicare-FrontEnd]$ sudo docker run -d -p 80:80 --name frontend frontendimage
83c42ff3cbdd8e2654fc9c2d3088813bc4e7b188cef9b9ea0302a572a74af2
[ec2-user@ip-172-31-81-44 Medicare-FrontEnd]$ sudo docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS
83c42ff3cbdd        frontendimage      "/docker-entrypoint..."   9 seconds ago     Up 7 seconds       0.0.0.0:80->80/tcp, :::80->80/tcp
aa1f1047b0531        backendimage       "java -jar !-Dspring...." 14 minutes ago    Up 14 minutes      0.0.0.0:8080->8080/tcp, :::8080->8080/tcp
[ec2-user@ip-172-31-81-44 Medicare-FrontEnd]$
```

Finally Our Application is Running Successfully

