

Capstone

My Movie Plan 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 project 'Medicare-Backend' open. The 'MedicareBackendApplication.java' file is the active editor, displaying the main method of a Spring Boot application. The status bar at the bottom right indicates the application is running on port 10740. The terminal tab shows the application's logs, which include a warning about the deprecation of the MySQL JDBC driver.

```
package com.example.MyMoviePlanBackend;
import org.springframework.boot.SpringApplication;
public class MyMoviePlanBackendApplication {
    public static void main(String[] args) {
        SpringApplication.run(MyMoviePlanBackendApplication.class, args);
    }
}
```

```
2023-05-21T15:19:41.139+05:30 INFO 10740 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing P
2023-05-21T15:19:41.413+05:30 INFO 10740 --- [main] org.hibernate.Version : HHH000412: Hibernet OR
2023-05-21T15:19:41.419+05:30 INFO 10740 --- [main] org.hibernate.cfg.Environment : HHH000406: Using byteco
2023-05-21T15:19:41.838+05:30 INFO 10740 --- [main] o.h.b.i.BytecodeProviderInitiator : HHH000021: Bytecode pro
2023-05-21T15:19:42.107+05:30 INFO 10740 --- [main] o.s.o.j.p.SpringPersistenceUnitInfo : No LoadTimeWeaver setup
2023-05-21T15:19:42.138+05:30 INFO 10740 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting
2023-05-21T15:19:42.147+05:30 WARN 10740 --- [main] c.zaxxer.hikari.util.DriverDataSource : Registered driver with
2023-05-21T15:19:42.822+05:30 INFO 10740 --- [main] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Added co
2023-05-21T15:19:42.827+05:30 INFO 10740 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start co
2023-05-21T15:19:42.999+05:30 INFO 10740 --- [main] org.hibernate.orm.dialect : HHH035001: Using dialect
2023-05-21T15:19:43.571+05:30 INFO 10740 --- [main] o.h.b.i.BytecodeProviderInitiator : HHH000021: Bytecode pro
2023-05-21T15:19:45.033+05:30 INFO 10740 --- [main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPla
2023-05-21T15:19:45.135+05:30 INFO 10740 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityM
2023-05-21T15:19:46.304+05:30 WARN 10740 --- [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view
2023-05-21T15:19:47.198+05:30 INFO 10740 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(
2023-05-21T15:19:47.214+05:30 INFO 10740 --- [main] c.e.M.MyMoviePlanBackendApplication : Started MyMoviePlanBack
```

Running the FrontEnd React js Application

The screenshot shows the Visual Studio Code interface with the 'Header.js' file open in the editor. The status bar at the bottom right indicates the application is running on port 3000. The terminal tab shows the build process was successful, and the browser is open at 'http://localhost:3000'. The code in the editor shows a functional component named 'Header' that uses useState and useEffect hooks.

```
const Header = () => {
  const [session, SetSession] = useState("");
  const navigate=useNavigate();
  useEffect(()=>{
    SetSession(sessionStorage.getItem("name"));
  })
  const navmenu = () => {
    if (session === null) {
      return (
        <>
      )
    }
  }
}
```

Compiled successfully!

You can now view simple-eCart in the browser.

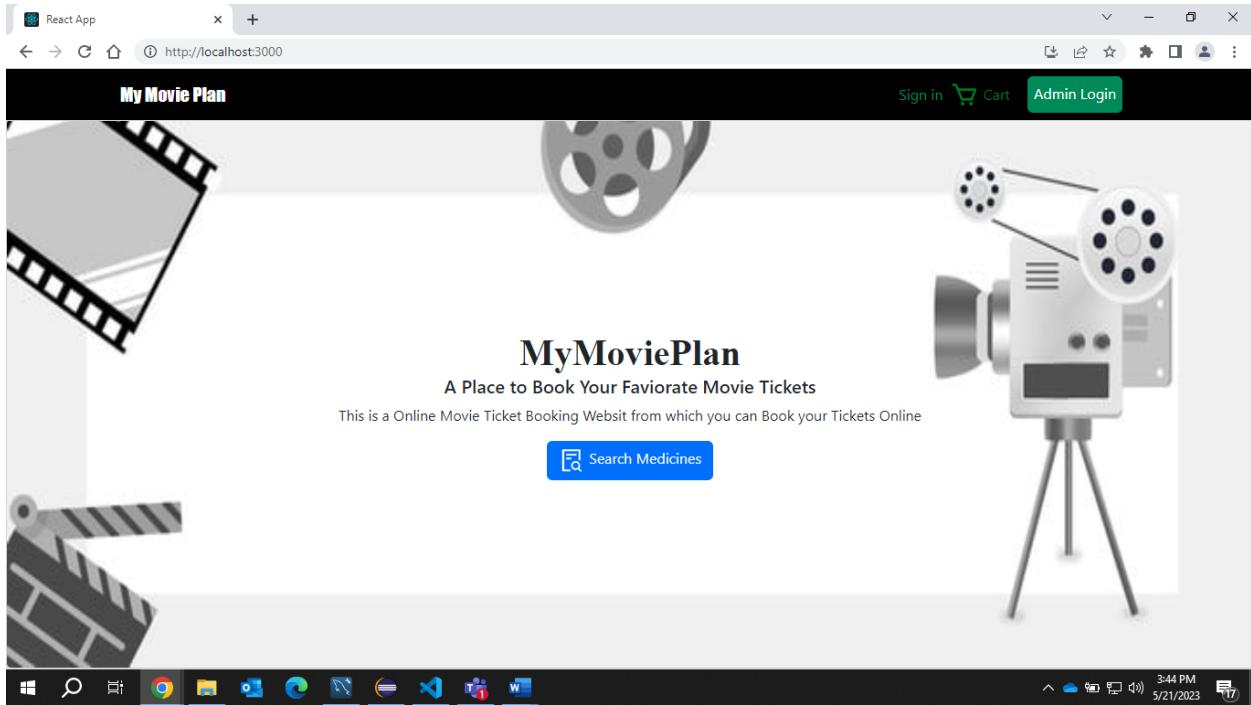
Local: http://localhost:3000
On Your Network: http://10.188.222.17:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

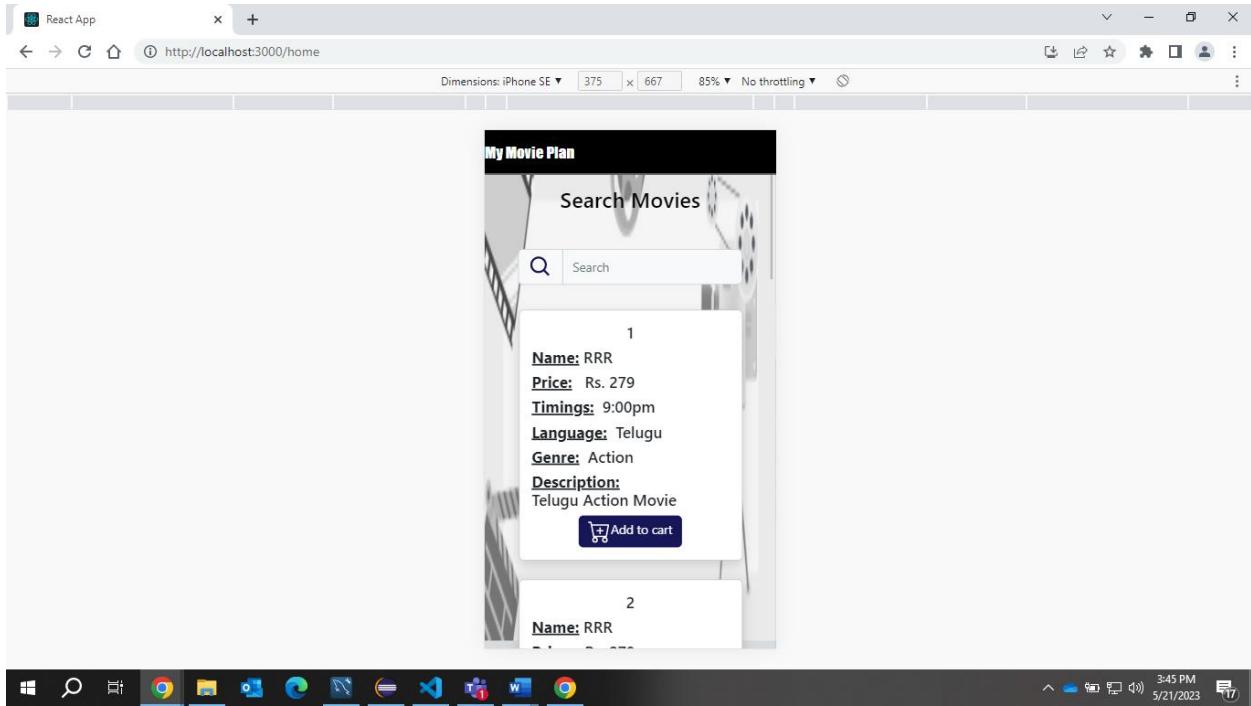
webpack compiled successfully

Application Running on Localhost

Index.js



Responsive



Add items to cart

The screenshot shows a search results page for movies. There are six movie cards displayed:

- Card 1:** Name: RRR, Price: Rs. 279, Timings: 9:00pm, Language: Telugu, Genre: Action, Description: Telugu Action Movie. Includes an "Add to cart" button.
- Card 2:** Name: RRR, Price: Rs. 279, Timings: 6:00pm, Language: Telugu, Genre: Action, Description: Telugu Action Movie. Includes an "Add to cart" button.
- Card 3:** Name: RRR, Price: Rs. 279, Timings: 3:00pm, Language: Hindi, Genre: Action, Description: Telugu Action Movie. Includes an "Add to cart" button.
- Card 4:** Name: Avengers, Price: Rs. 299, Timings: 10:00am, Language: English, Genre: Hollywood, Description: English Hollywood Movie. Partially visible.
- Card 5:** Name: Robo 2.0, Price: Rs. 299, Timings: 10:00am, Language: English, Genre: Hollywood, Description: English Hollywood Movie. Partially visible.
- Card 6:** Name: Robo 2.0, Price: Rs. 299, Timings: 10:00am, Language: English, Genre: Hollywood, Description: English Hollywood Movie. Partially visible.

The top right corner shows a "Cart" icon with a count of 2. The bottom right corner shows the date and time: 5/21/2023 3:46 PM.

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

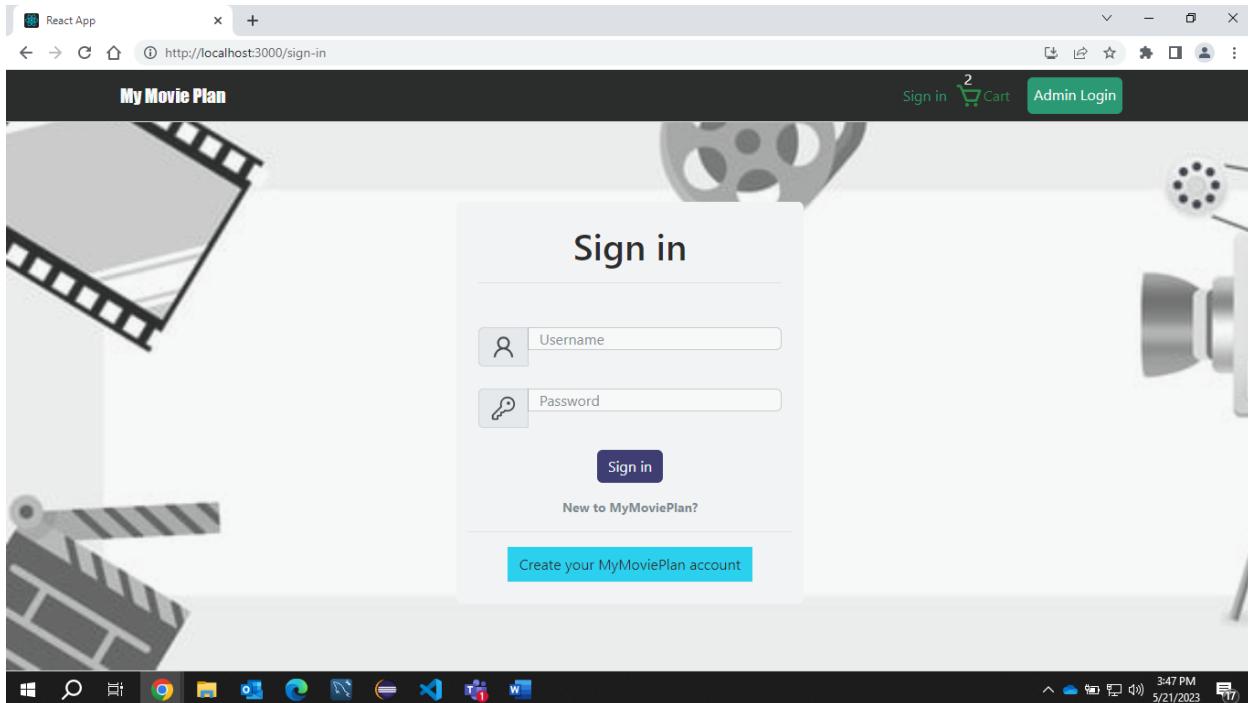
The screenshot shows the cart summary page. It displays a table of items currently in the cart:

ID	Movie Name	Ticket Price	Language	Timings	No of Tickets	Description	Actions
1	RRR	Rs. 279	Language (Telugu)	(9:00pm)	(1)	Telugu Action Movie	<button>-</button> <button>+</button> Remove Ticket
4	Avengers	Rs. 299	Language (English)	(10:00am)	(1)	English Hollywood Movie	<button>-</button> <button>+</button> Remove Ticket

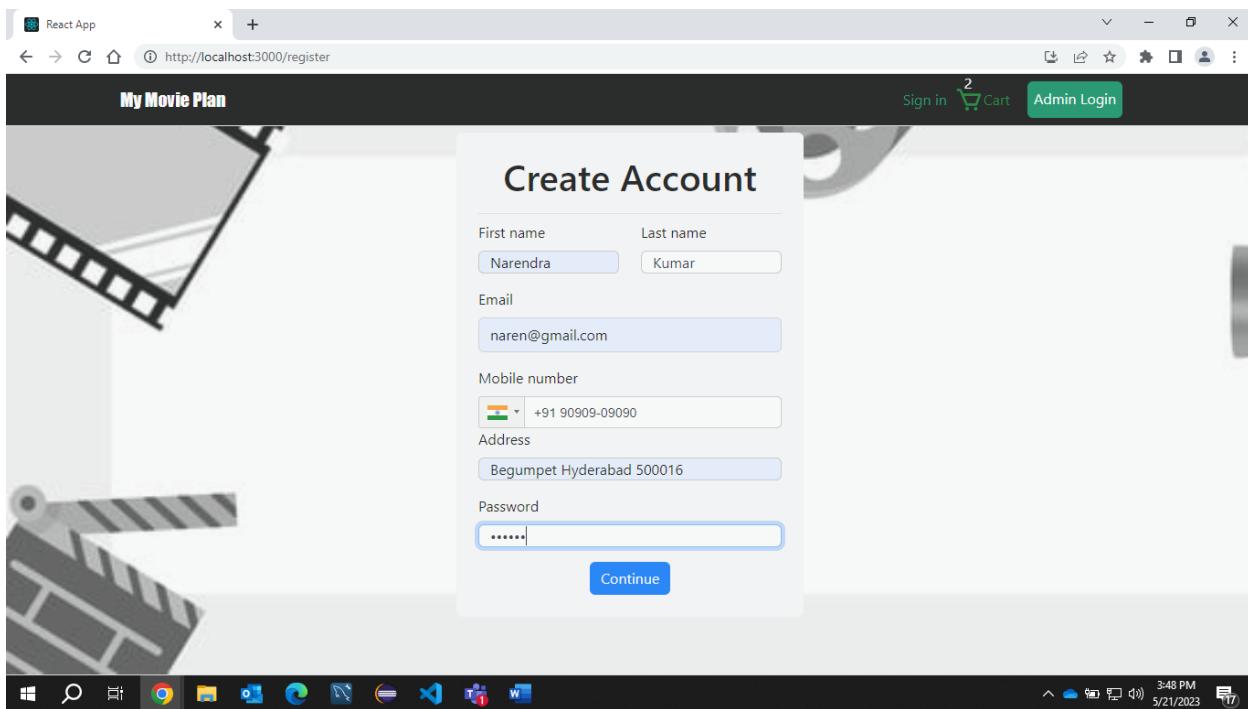
Total Price: Rs. 578

Bottom right corner shows the date and time: 5/21/2023 3:47 PM.

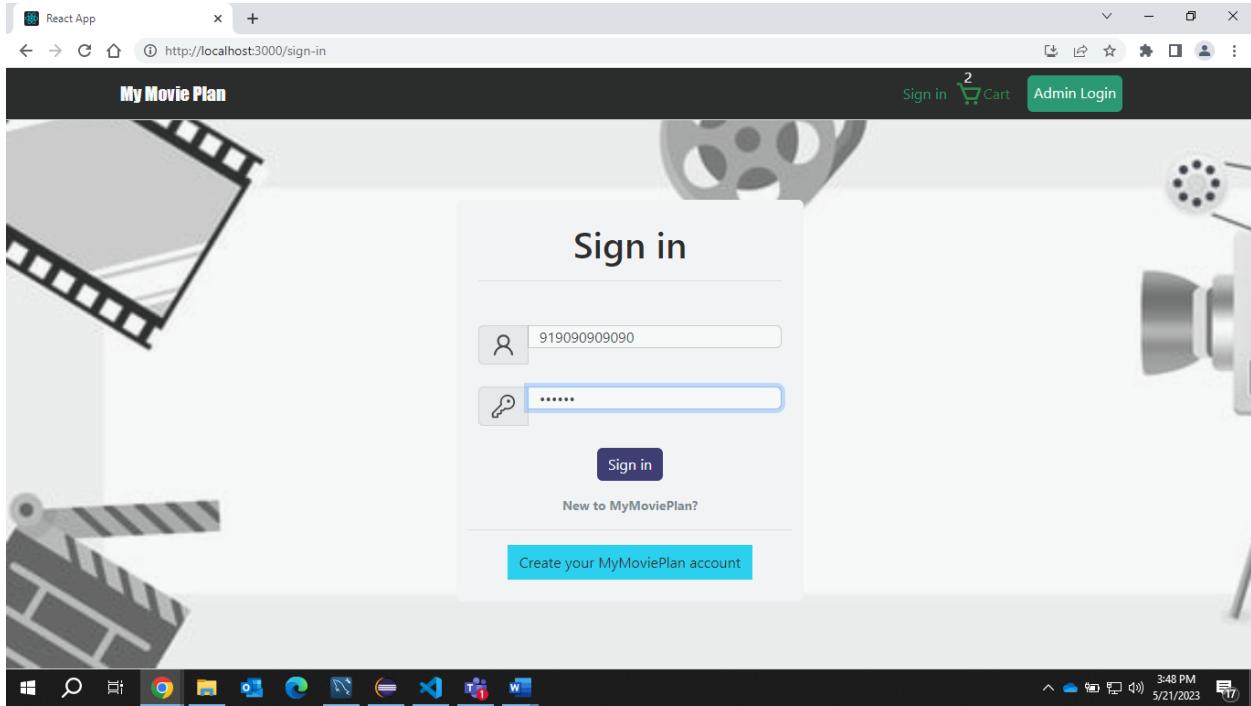
As soon as we Click Checkout it will redirect to sign in page because user didn't sign in



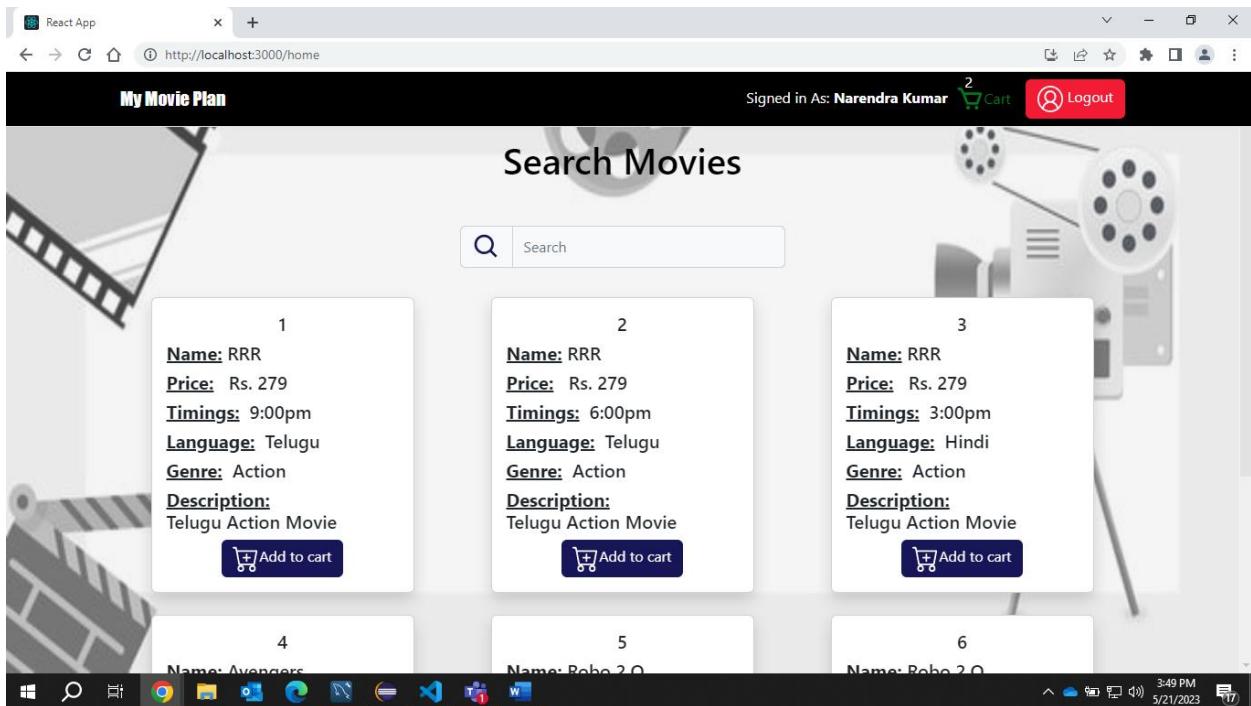
Creating a User Account



Signing in



As you can see the cart items are still there



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 web browser window titled "React App" with the URL "http://localhost:3000/cart". The page is titled "My Movie Plan" and features a section titled "The Cart". A table displays two movie tickets:

ID	Movie Name	Ticket Price	Language	Timings	No of Tickets	Description	Actions
1	RRR	Rs. 279	Language (Telugu)	(9:00pm)	(1)	Telugu Action Movie	<button>-</button> <button>+</button> Remove Ticket
4	Avengers	Rs. 299	Language (English)	(10:00am)	(1)	English Hollywood Movie	<button>-</button> <button>+</button> Remove Ticket

Total Price: Rs. 578

Buttons: Clear Cart (red), Checkout (green)

Select the mode of Payment

The screenshot shows a web browser window titled "React App" with the URL "http://localhost:3000/checkout". The page is titled "My Movie Plan" and features a section titled "Check Out". It includes a "User Details" form and a "Payment Type" dropdown set to "Cash on Delivery". A note at the bottom states "Selected Cash on Delivery as Payment Method".

User Details:

- Full Name: Narendra Kumar
- Mobile number: 919090909090
- Email: naren@gmail.com

Address: Begumpet Hyderabad 500016

Payment Type: Cash on Delivery

Selected Cash on Delivery as Payment Method

Review Cart Details:

ID	Name	Price	Language	Timings	No of Tickets	Description	Actions
----	------	-------	----------	---------	---------------	-------------	---------

Total Price: Rs. 578

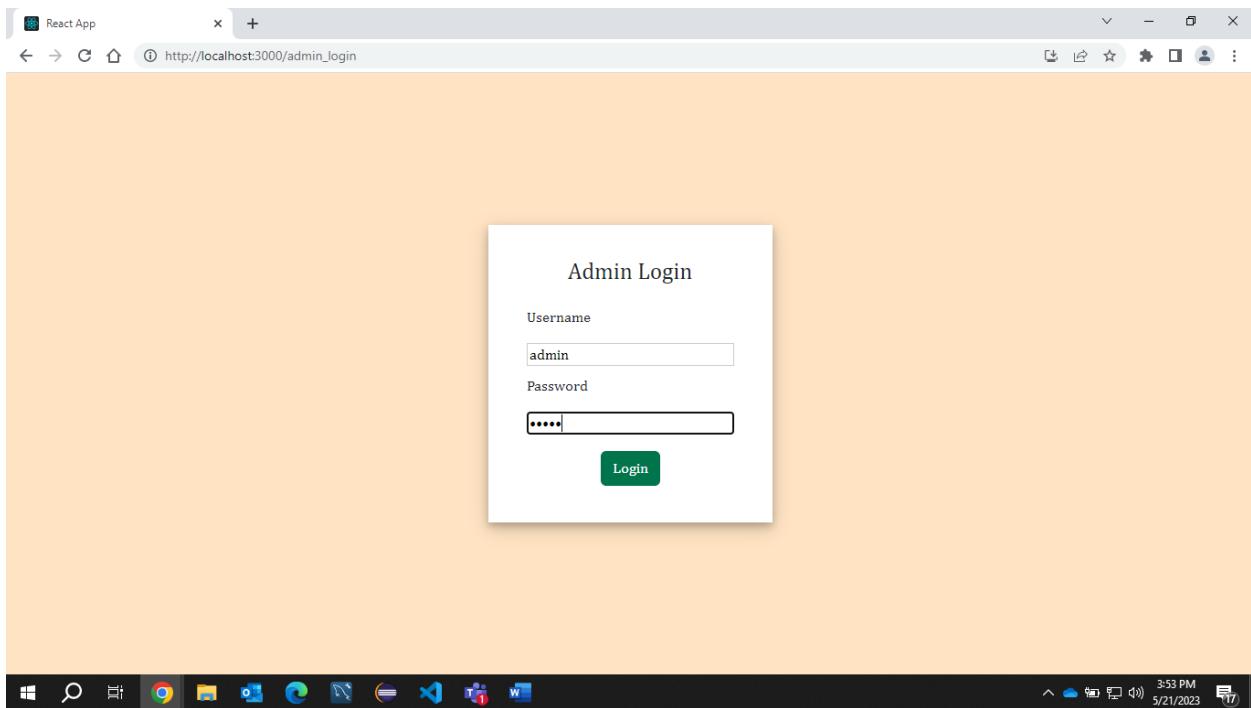
Buttons: Clear Cart (red), Checkout (green)

Order Summary Page

The screenshot shows a web browser window for a React application titled "React App". The URL is <http://localhost:3000/order>. The page has a black header bar with "My Movie Plan" on the left and "Signed in As: Narendra Kumar" with a "Logout" button on the right. The main content area displays a confirmation message: "Your order Confirmed! Hello, Your order has been confirmed and will be shipped in next two days!" Below this, there is a table with order details: Order Date (21/5/2023), Contact Number (919090909090), Contact Email (naren@gmail.com), and Shipping Address (Begumpet Hyderabad 500016). At the bottom, it shows a total amount of Rs/-578. A note states: "We will be sending shipping confirmation email when the item shipped successfully! Thanks for Choosing us!" followed by "Medicare". A green "Back to Home" button is at the bottom.

Now cart will be empty ,Now go to admin Login

The screenshot shows a web browser window for a React application titled "React App". The URL is <http://localhost:3000/sign-in>. The page has a black header bar with "My Movie Plan" on the left and "Sign in" and "Admin Login" buttons on the right. The main content area features a "Sign in" form with fields for "Username" and "Password", and a "Sign in" button. Below the form, there is a link "New to MyMoviePlan?" and a blue button "Create your MyMoviePlan account". The background of the page has movie-related icons like a film strip and a movie camera. The status bar at the bottom shows the URL "localhost:3000/admin_login".



We can see 6 records now we will add some data

A screenshot of a web browser window titled "React App". The address bar shows the URL "http://localhost:3000/admin_home". The main content is a white rectangular box with an orange header bar containing the text "My Movie Plan Admin" and a "Logout" button. Below the header is a table with a caption "List of Shows". The table has columns: Sno, Product Name, Price, Genre, Language, Description, Timings, Status, and Actions. There are 6 rows of data. Each row includes a "Status" column with a toggle switch and "Actions" columns with "Update" and "Delete" buttons. The "Actions" column for the first row is currently active, showing "Update" and "Delete" buttons.

Adding sample data

The screenshot shows a web browser window titled 'React App' with the URL 'http://localhost:3000/createProduct'. The page has an orange header bar with the text 'My Movie Plan Admin' and a 'Logout' button. Below the header is a form titled 'Add Show' containing fields for Name (KGF), language (Telugu), Price (279), Description (South India Sensation), Timings (5:00pm), Status (Available), and Genre (Action Adventure). A green 'Submit' button is at the bottom of the form.

As you can see Data is added

The screenshot shows a web browser window titled 'React App' with the URL 'http://localhost:3000/admin_home'. The page has an orange header bar with the text 'My Movie Plan Admin' and a 'Logout' button. Below the header is a table titled 'List of Shows' with the following data:

Sno	Product Name	Price	Genre	Language	Description	Timings	Status	Actions
1	RRR	279	Action	Telugu	Telugu Action Movie	9:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
2	RRR	279	Action	Telugu	Telugu Action Movie	6:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
3	RRR	279	Action	Hindi	Telugu Action Movie	3:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
4	Avengers	299	Fantasy	English	English Hollywood Movie	10:00am	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
5	Robo 2.O	279	Sci-fi	Tamil	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
6	Robo 2.O	279	Sci-fi	Telugu	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
7	KGF	279		Telugu	India Sensation	5:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>

Updating 1st item

Sno	Product Name	Price	Genre	Language	Description	Timings	Status	Actions
1	RRR	279	Action	Telugu	Telugu Action Movie	9:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
2	RRR	279	Action	Telugu	Telugu Action Movie	6:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
3	RRR	279	Action	Hindi	Telugu Action Movie	3:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
4	Avengers	299	Fantasy	English	English Hollywood Movie	10:00am	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
5	Robo 2.0	279	Sci-fi	Tamil	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
6	Robo 2.0	279	Sci-fi	Telugu	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
7	KGF	279		Telugu	India Sensation	5:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>

Update Movie Data

Name	language
<input type="text" value="RRR"/>	<input type="text" value="Telugu"/>
Price	Description
<input type="text" value="279"/>	<input type="text" value="Movie"/>
Timings	
<input type="text" value="9:00pm"/>	
<button>Submit</button>	

My Movie Plan Admin

Logout

List of Shows

Sno	Product Name	Price	Genre	Language	Description	Timings	Status	Actions
1	RRR	279		Telugu	Movie	9:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
2	RRR	279	Action	Telugu	Telugu Action Movie	6:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
3	RRR	279	Action	Hindi	Telugu Action Movie	3:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
4	Avengers	299	Fantasy	English	English Hollywood Movie	10:00am	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
5	Robo 2.0	279	Sci-fi	Tamil	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
6	Robo 2.0	279	Sci-fi	Telugu	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
7	KGF	279		Telugu	India Sensation	5:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>

Add +

Software Center

Software changes are required
Your IT department requires changes to the software on your computer. Click here for options.

As you can see all the shows are set to available so all the data is displayed for the user

My Movie Plan Admin

Logout

List of Shows

Sno	Product Name	Price	Genre	Language	Description	Timings	Status	Actions
1	RRR	279		Telugu	Movie	9:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
2	RRR	279	Action	Telugu	Telugu Action Movie	6:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
3	RRR	279	Action	Hindi	Telugu Action Movie	3:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
4	Avengers	299	Fantasy	English	English Hollywood Movie	10:00am	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
5	Robo 2.0	279	Sci-fi	Tamil	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
6	Robo 2.0	279	Sci-fi	Telugu	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
7	KGF	279		Telugu	India Sensation	5:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>

Add +

localhost:3000/updateProduct/6

The screenshot shows a web application titled "My Movie Plan". At the top right, there are links for "Sign in", "Cart", and "Admin Login". Below the header, a large banner features a film reel and a movie camera. The main content area is titled "Search Movies" and includes a search bar with a magnifying glass icon and a placeholder "Search". Below the search bar are six movie cards, each containing a number (1 through 6) and movie details:

Sno	Name	Price	Genre	Language	Description	Timings	Status	Actions
1	RRR	Rs. 279		Telugu	Movie	9:00pm	<input type="radio"/>	<button>Add to cart</button>
2	RRR	Rs. 279	Action	Telugu	Telugu Action Movie	6:00pm	<input type="radio"/>	<button>Add to cart</button>
3	RRR	Rs. 279	Action	Hindi	Telugu Action Movie	3:00pm	<input checked="" type="radio"/>	<button>Add to cart</button>
4								
5	Robo 2.O							
6	Robo 2.O							

At the bottom of the page, the URL "localhost:3000/home" is visible in the address bar, along with the Windows taskbar showing various open applications.

If I toggle 1st and 2nd show

The screenshot shows the "My Movie Plan Admin" page. At the top right, there is a "Logout" button. The main content area is titled "List of Shows" and displays a table of movie shows with columns for Sno, Product Name, Price, Genre, Language, Description, Timings, Status, and Actions:

Sno	Product Name	Price	Genre	Language	Description	Timings	Status	Actions
1	RRR	279		Telugu	Movie	9:00pm	<input type="radio"/>	<button>Update</button> <button>Delete</button>
2	RRR	279	Action	Telugu	Telugu Action Movie	6:00pm	<input type="radio"/>	<button>Update</button> <button>Delete</button>
3	RRR	279	Action	Hindi	Telugu Action Movie	3:00pm	<input checked="" type="radio"/>	<button>Update</button> <button>Delete</button>
4	Avengers	299	Fantasy	English	English Hollywood Movie	10:00am	<input checked="" type="radio"/>	<button>Update</button> <button>Delete</button>
5	Robo 2.O	279	Sci-fi	Tamil	Science Fiction	12:00pm	<input checked="" type="radio"/>	<button>Update</button> <button>Delete</button>
6	Robo 2.O	279	Sci-fi	Telugu	Science Fiction	12:00pm	<input checked="" type="radio"/>	<button>Update</button> <button>Delete</button>

At the bottom of the page, the URL "http://localhost:3000/admin_home" is visible in the address bar, along with the Windows taskbar showing various open applications.

It wont be visible to user

The screenshot shows a web browser window with two tabs, both titled "React App". The active tab displays the URL <http://localhost:3000/home>. The page has a header "My Movie Plan" and "Search Movies". A search bar with a magnifying glass icon and the placeholder "Search" is centered. Below the search bar are three movie cards numbered 3, 4, and 5. Each card contains movie details and an "Add to cart" button with a shopping cart icon.

Sno	Name	Price	Language	Description	Timings	Status	Action
3	RRR	Rs. 279	Hindi	Telugu Action Movie	3:00pm	<input checked="" type="checkbox"/>	Add to cart
4	Avengers	Rs. 299	English	English Hollywood Movie	10:00am	<input type="checkbox"/>	Add to cart
5	Robo 2.O	Rs. 279	Tamil	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	Add to cart

The screenshot shows a web browser window with two tabs, both titled "React App". The active tab displays the URL http://localhost:3000/admin_home. The page has a header "My Movie Plan Admin" and "Logout". Below the header is a table titled "List of Shows". The table includes columns for Sno, Product Name, Price, Genre, Language, Description, Timings, Status, and Actions. Each row contains a set of controls: a switch for status, an "Update" button, and a "Delete" button.

Sno	Product Name	Price	Genre	Language	Description	Timings	Status	Actions
1	RRR	279		Telugu	Movie	9:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
2	RRR	279	Action	Telugu	Telugu Action Movie	6:00pm	<input type="checkbox"/>	<button>Update</button> <button>Delete</button>
3	RRR	279	Action	Hindi	Telugu Action Movie	3:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
4	Avengers	299	Fantasy	English	English Hollywood Movie	10:00am	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
5	Robo 2.O	279	Sci-fi	Tamil	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>
6	Robo 2.O	279	Sci-fi	Telugu	Science Fiction	12:00pm	<input checked="" type="checkbox"/>	<button>Update</button> <button>Delete</button>

The screenshot shows a web application titled "My Movie Plan" with a "Search Movies" header. The page displays six movie cards arranged in two rows of three. Each card includes a movie title, price, timing, language, genre, and a brief description, along with an "Add to cart" button.

Card	Name	Price	Timing	Language	Genre	Description	Action
1	RRR	Rs. 279	9:00pm	Telugu		Movie	Add to cart
3	RRR	Rs. 279	3:00pm	Hindi	Action	Telugu Action Movie	Add to cart
4	Avengers	Rs. 299	10:00am	English	Fantasy	English Hollywood Movie	Add to cart
5	Robo 2.0						
6	Robo 2.0						

The application has a dark-themed header bar with "Sign in", "Cart", and "Admin Login" buttons. The footer shows a Windows taskbar with various pinned icons and the system clock indicating 4:00 PM on 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 sub-options like 'Instances', 'Instance Types', 'Launch Templates', etc. The main content area is titled 'Instances Info' and displays a search bar with 'Find instance by attribute or tag (case-sensitive)' and a filter button 'Instance state = running'. Below the search bar is a table header with columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. A message at the bottom of the table says 'No matching instances found'. At the bottom of the main area, there is a modal window titled 'Select an instance'.

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 sub-options like 'Instances', 'Instance Types', 'Launch Templates', etc. The main content area is titled 'Instances (3) Info' and displays a search bar with 'Find instance by attribute or tag (case-sensitive)'. Below the search bar is a table showing three instances. The first instance is named 'MysqlConn...', has an Instance ID of 'i-0a1512a8d2d922be7', is in a 'Running' state, and is of type 't2.micro'. It also shows 'Initializing' under Status check and 'No alarms' under Alarm status. The instance is located in the 'us-east-1a' Availability Zone. The table has columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone.

Adding 3306 port for mysql instance

Inbound rules

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-03c947bdcb4ca62ba	SSH	TCP	22	Custom	0.0.0.0
-	MySQL/Aurora	TCP	3306	Anywh...	0.0.0.0

Add rule Cancel Preview changes Save rules

Docker is installed

```
7155243
Tue Apr 11 22:56:36 2023
linux/amd64
default
true

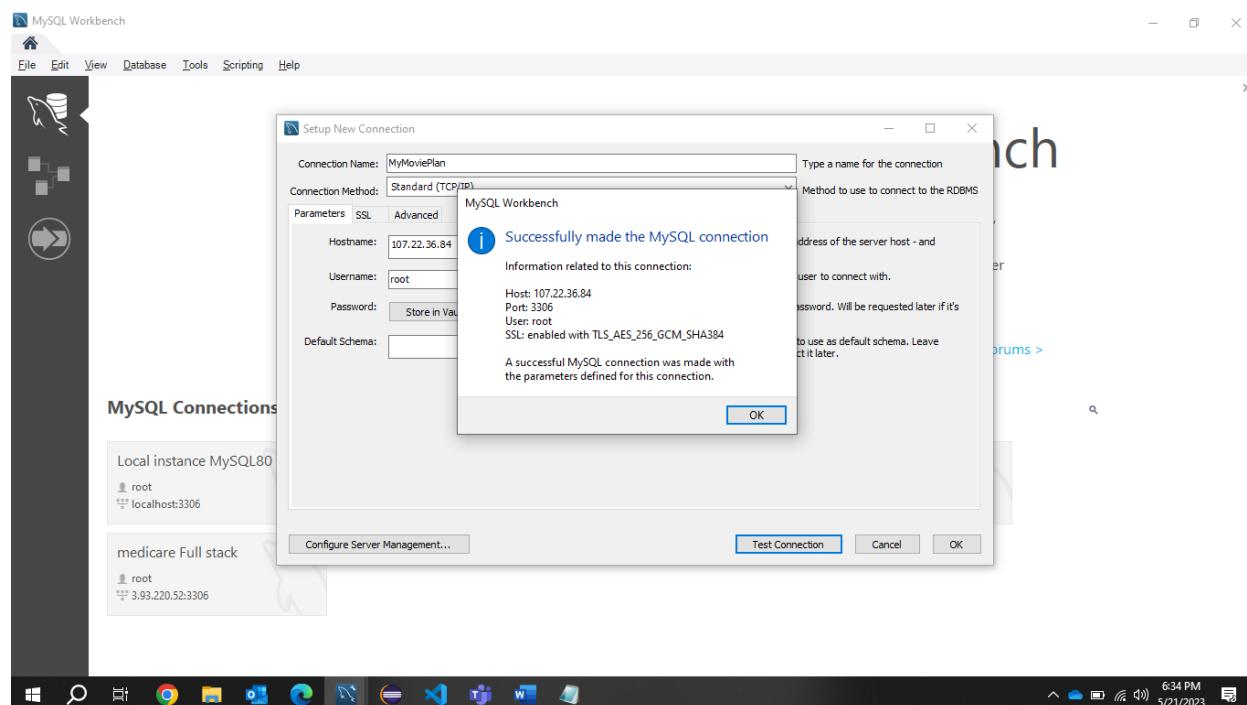
Server:
Engine:
Version: 20.10.23
API version: 1.41 (minimum version 1.12)
Go version: go1.18.9
Git commit: 6051f14
Built: Tue Apr 11 22:57:17 2023
OS/Arch: linux/amd64
Experimental: false
containerd:
Version: 1.6.19
GitCommit: 1e1ea6e986c6c86565bc33d52e34b81b3e2bc71f
runc:
Version: 1.1.4
GitCommit: 5fd4c4d144137e991c4acebb2146ab1483a97925
docker-init:
Version: 0.19.0
GitCommit: de40ad0
[ec2-user@ip-172-31-84-152 ~]$ 
```

i-0a1512a8d2d922be7 (MySQLConnection)
PublicIPs: 107.22.36.84 PrivateIPs: 172.31.84.152

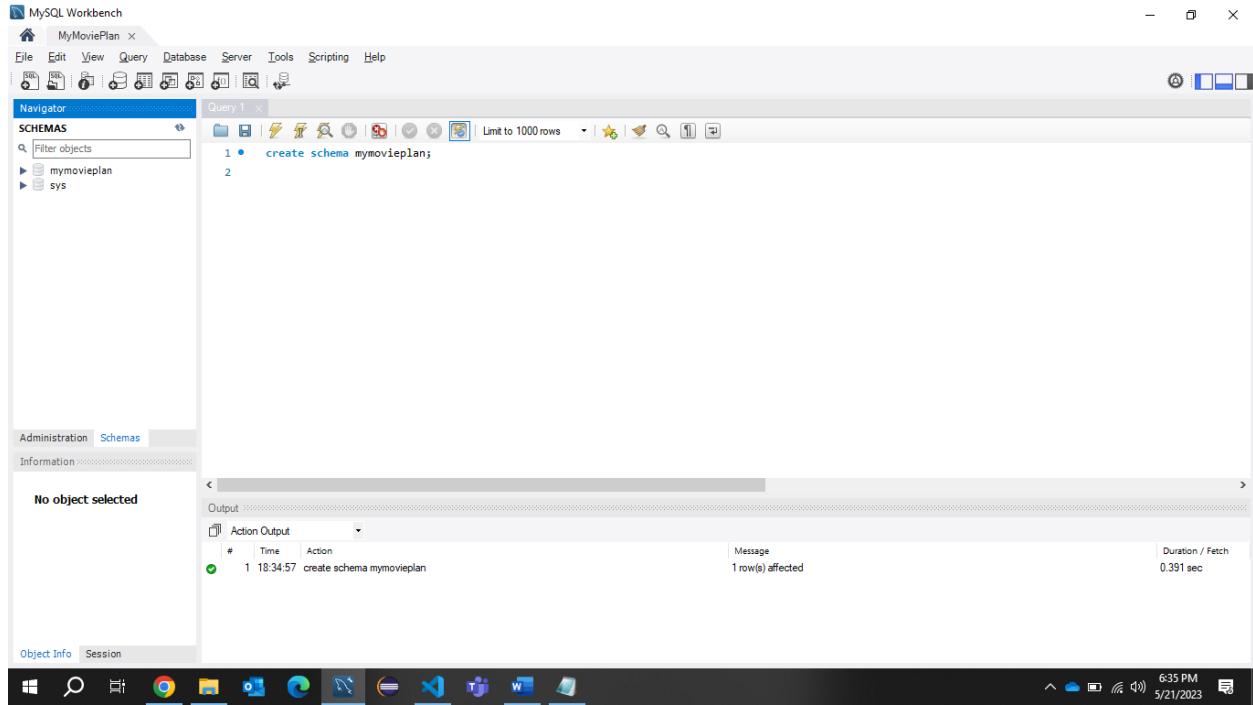
CloudShell Feedback Language © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 6:31 PM 5/21/2023

Dockerized the mysql

successfully connected that mysql with my workbench



Creating database mymovieplan



Creating a new Instance for running MyMoviePlan FrontEnd and Backend Application

With java,git and Docker installed

```

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

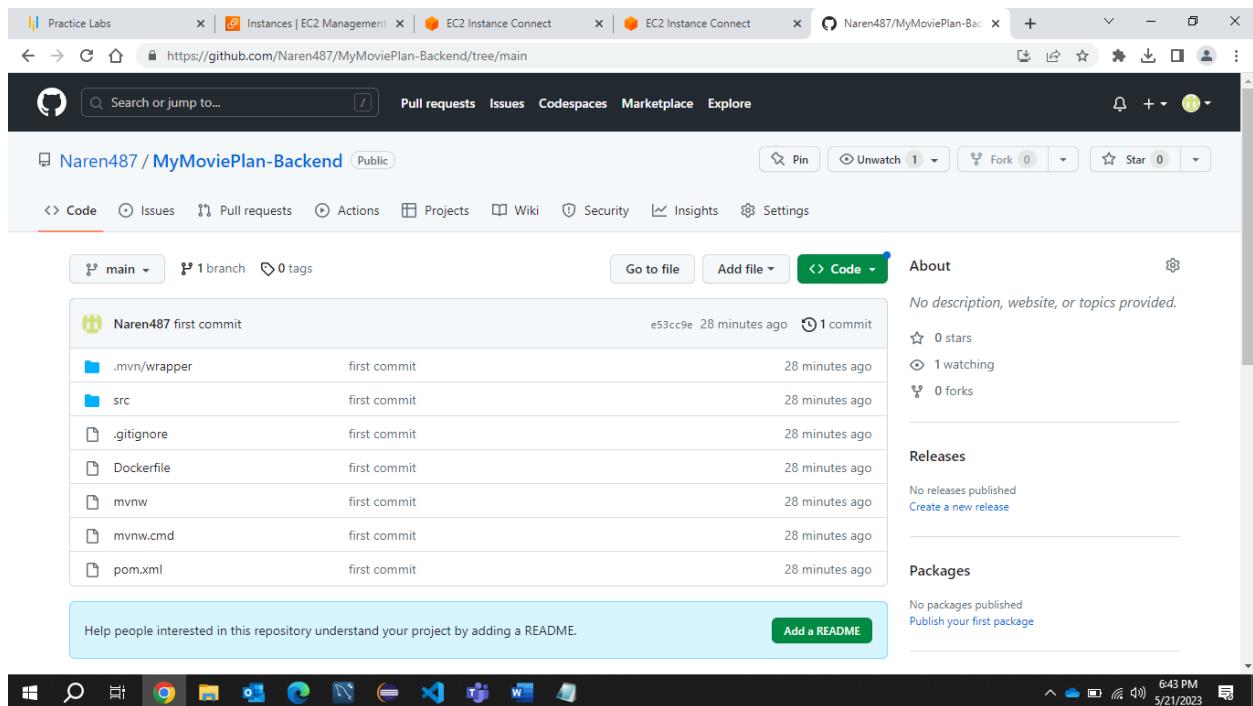
```

Just had an issue with first one so created another instanc(MyMoviePlanApp)

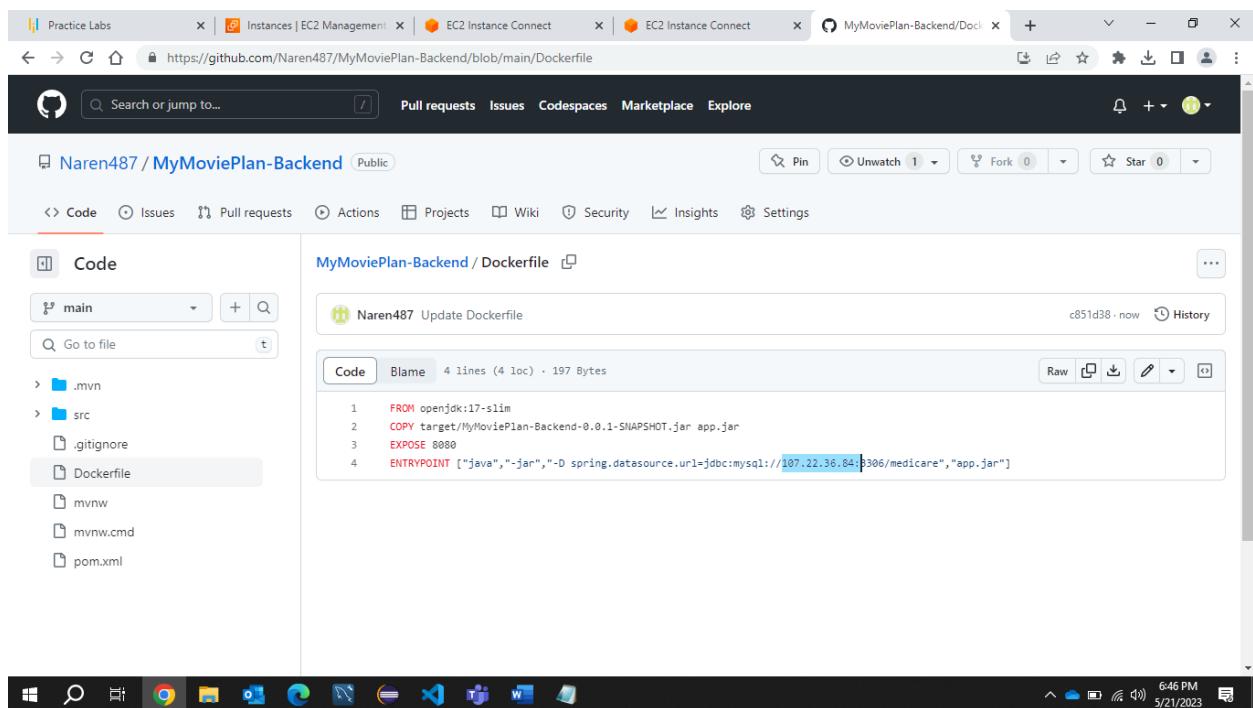
The screenshot shows the AWS EC2 Instances page. The left sidebar has 'Instances' selected under 'Instances'. The main table lists three instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
MysqlConnection	i-0a1512a8d2d922be7	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
MyMoviePlan	i-069e0556434d26904	Terminated	t3.micro	-	No alarms	us-east-1a
MyMoviePlanApp	i-083dba4047be2b638	Running	t3.micro	Initializing	No alarms	us-east-1a

I have already pushed my code in to github



This is the Dockerfile configuring mysql link here



Adding port 8080 for Backend Application

Inbound rules Info

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

Security group rule ID	Type	Info	Protocol	Port range	Source	Info	Description - optional
sgr-0de0f683c152d5004	HTTP		TCP	80	Custom	0.0.0.0/0	
sgr-0430418230ed5756b	SSH		TCP	22	Custom	0.0.0.0/0	
-	Custom TCP		TCP	8080	Anywh...	0.0.0.0/0	

Add rule

CloudShell Feedback Language © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 6:49 PM 5/21/2023

Cloning the MyMoviePlan-Backed Repository

```
[ec2-user@ip-172-31-87-241 ~]$ git clone https://github.com/Naren487/MyMoviePlan-Backend.git
Cloning into 'MyMoviePlan-Backend'...
remote: Enumerating objects: 39, done.
remote: Counting objects: 100% (39/39), done.
remote: Compressing objects: 100% (27/27), done.
remote: Total 39 (delta 4), reused 39 (delta 4), pack-reused 0
Receiving objects: 100% (39/39), 66.97 KiB | 33.48 MiB/s, done.
Resolving deltas: 100% (4/4), done.
[ec2-user@ip-172-31-87-241 ~]$ cd MyMoviePlan-Backend
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ ls -al
total 32
drwxrwxr-x 5 ec2-user ec2-user 120 May 21 13:13 .
drwxr----- 4 ec2-user ec2-user 101 May 21 13:13 ..
-rw-rw-r-- 1 ec2-user ec2-user 185 May 21 13:13 Dockerfile
drwxrwxr-x 8 ec2-user ec2-user 163 May 21 13:13 .git
-rw-rw-r-- 1 ec2-user ec2-user 395 May 21 13:13 .gitignore
drwxrwxr-x 3 ec2-user ec2-user 21 May 21 13:13 .mvn
-rw-rw-r-- 1 ec2-user ec2-user 11290 May 21 13:13 mvnw
-rw-rw-r-- 1 ec2-user ec2-user 7592 May 21 13:13 mvnw.cmd
-rw-rw-r-- 1 ec2-user ec2-user 1526 May 21 13:13 pom.xml
drwxrwxr-x 4 ec2-user ec2-user 30 May 21 13:13 src
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$
```

i-083dba4047be2b638 (MyMoviePlanApp)
Public IPs: 44.202.155.53 Private IPs: 172.31.87.241

CloudShell Feedback Language © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 6:44 PM 5/21/2023

Building the project using cmd mvn clean package

```
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ mvn clean package
[INFO] Scanning for projects...
[INFO]
[INFO] Building MyMoviePlan-Backend 0.0.1-SNAPSHOT
[INFO]
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.pom (8.2 kB at 17 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/39/maven-plugins-39.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/39/maven-plugins-39.pom (8.1 kB at 450 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/39/maven-parent-39.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/39/maven-parent-39.pom (48 kB at 842 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/29/apache-29.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/29/apache-29.pom (21 kB at 942 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin-3.3.1.jar (31 kB at 632 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.11.0/maven-compiler-plugin-3.11.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.11.0/maven-compiler-plugin-3.11.0.pom (9.8 kB at 654 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.11.0/maven-compiler-plugin-3.11.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.11.0/maven-compiler-plugin-3.11.0.jar (66 kB at 2.1 MB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/3.0.0/maven-surefire-plugin-3.0.0.pom
```

i-083dba4047be2b638 (MyMoviePlanApp)
Public IPs: 44.202.155.53 Private IPs: 172.31.87.241

Build Success

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/ow2/asm/asm-util/8.0/asm-util-8.0.jar (85 kB at 206 kB/s)
Downloaded 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/org/eclipse/aether/aether-util/0.9.0.M2/aether-util-0.9.0.M2.jar (134 kB at 322 kB/s)
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
Downloaded from central: https://repo.maven.apache.org/maven2/org/wafer/jdependency/2.4.0/jdependency-2.4.0.jar (180 kB at 432 kB/s)
Downloaded 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/failureaccess/1.0.1/failureaccess-1.0.1.jar (4.6 kB at 11 kB/s)
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
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 5.1 kB/s)
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 14 kB/s)
Downloaded 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/apache/commons/commons-lang3/3.7/commons-lang3-3.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/jdom/jdom2/2.0.6/jdom2-2.0.6.jar (305 kB at 707 kB/s)
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 32 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 20 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 1.1 MB/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 5.1 MB/s)
[INFO] Replacing main artifact /home/ec2-user/MyMoviePlan-Backend/target/MyMoviePlan-Backend-0.0.1-SNAPSHOT.jar with repackaged archive, adding nested dependencies in BOOT-INF/.
[INFO] The original artifact has been renamed to /home/ec2-user/MyMoviePlan-Backend/target/MyMoviePlan-Backend-0.0.1-SNAPSHOT.jar.original
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 24.550 s
[INFO] Finished at: 2023-05-21T13:20:04Z
[INFO] Final Memory: 39M/95M
[INFO]
```

ec2-user@ip-172-31-87-241 MyMoviePlan-Backend\$

Jar file is generated

The screenshot shows a CloudShell terminal window with the AWS logo at the top. The terminal output is as follows:

```
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ ls -a target
. classes generated-test-sources maven-status
.. generated-sources maven-archiver MyMoviePlan-Backend-0.0.1-SNAPSHOT.jar surefire-reports
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ [ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$
```

Below the terminal, the Windows taskbar is visible with various icons like File Explorer, Task View, and Start.

Dockerizing the Backend application

The screenshot shows a CloudShell terminal window with the AWS logo at the top. The terminal output is as follows:

```
--> 485538b54cf5
Step 3/4 : EXPOSE 8080
--> Running in eebdf44ddd79
Removing intermediate container eebdf44ddd79
--> 8dcf242c4c8a
Step 4/4 : ENTRYPOINT ["java","-jar","-D spring.datasource.url=jdbc:mysql://107.22.36.84:3306/medicare","app.jar"]
--> Running in 63c35cc616e0
Removing intermediate container 63c35cc616e0
--> 7ef1d1d9fb0f
Successfully built 7ef1d1d9fb0f
Successfully tagged backendimageapp:latest
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ sudo docker container run -d -p 80:80 --name backend backendimageapp
5f00e844bc74a922643ad7e0e68d8bf510546da06bd9e72926430fd15690e0ce
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ sudo docker ps -a
-bash: sudo: command not found
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ sudo docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
5f00e844bc74 backendimageapp "java -jar '-D spring..." 19 seconds ago Exited (1) 11 seconds ago backend
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ sudo docker container run -d -p 8080:8080 --name backend backendimageapp
docker: Error response from daemon: Conflict. The container name "/backend" is already in use by container "5f00e844bc74a922643ad7e0e68d8bf510546da06bd9e72926430fd15690e0ce". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ sudo docker container run -d -p 8080:8080 --name backendapp backendimageapp
0b1b4d468b61c5160ab57fecc52cf92df05e731d2cb27lef42fde93f22931d
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ sudo docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0b1b4d468b61 backendimageapp "java -jar '-D spring..." 6 seconds ago Up 5 seconds 0.0.0.0:8080->8080/tcp, :::8080->8080/t
cp backendapp
5f00e844bc74 backendimageapp "java -jar '-D spring..." About a minute ago Exited (1) About a minute ago
backend
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$
```

Below the terminal, the Windows taskbar is visible with various icons like File Explorer, Task View, and Start.

This is the front end code which I have pushed to github

Naren487 / MyMoviePlan-FrontEnd (Public)

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Naren487 first commit

build first commit

public first commit

src first commit

.gitignore first commit

Dockerfile first commit

README.md first commit

package-lock.json first commit

package.json first commit

47 minutes ago

README.md

About

No description, website, or topics provided.

Readme

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Cloned the Mymovieplan-Frontend Application

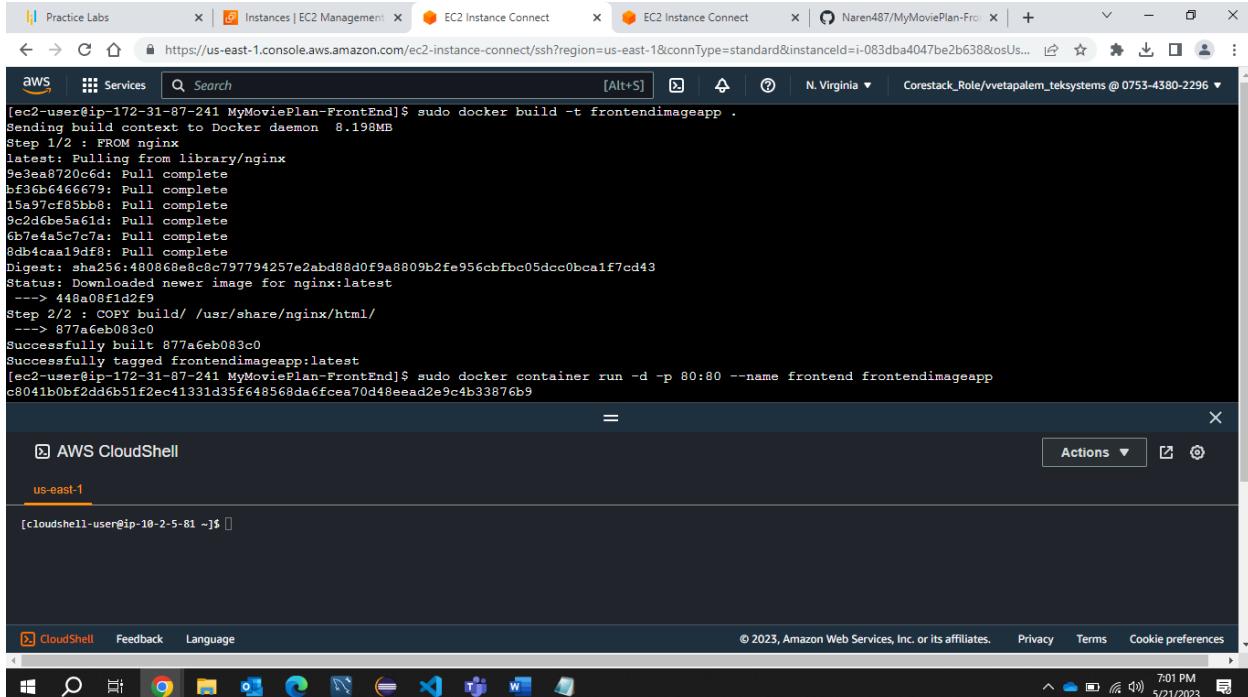
```
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ git clone https://github.com/Naren487/MyMoviePlan-FrontEnd.git
Cloning into 'MyMoviePlan-FrontEnd'...
remote: Enumerating objects: 58, done.
remote: Counting objects: 100% (58/58), done.
remote: Compressing objects: 100% (51/51), done.
remote: Total 58 (delta 5), reused 58 (delta 5), pack-reused 0
Receiving objects: 100% (58/58), 1.51 MiB | 8.58 MiB/s, done.
Resolving deltas: 100% (5/5), done.
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ cd ..\Medicare-FrontEnd
-bash: cd: ..\Medicare-FrontEnd: No such file or directory
[ec2-user@ip-172-31-87-241 MyMoviePlan-Backend]$ cd MyMoviePlan-FrontEnd
[ec2-user@ip-172-31-87-241 MyMoviePlan-FrontEnd]$ ls -a
. . . build Dockerfile .git .gitignore package.json package-lock.json public README.md src
[ec2-user@ip-172-31-87-241 MyMoviePlan-FrontEnd]$
```

CloudShell Feedback Language

© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

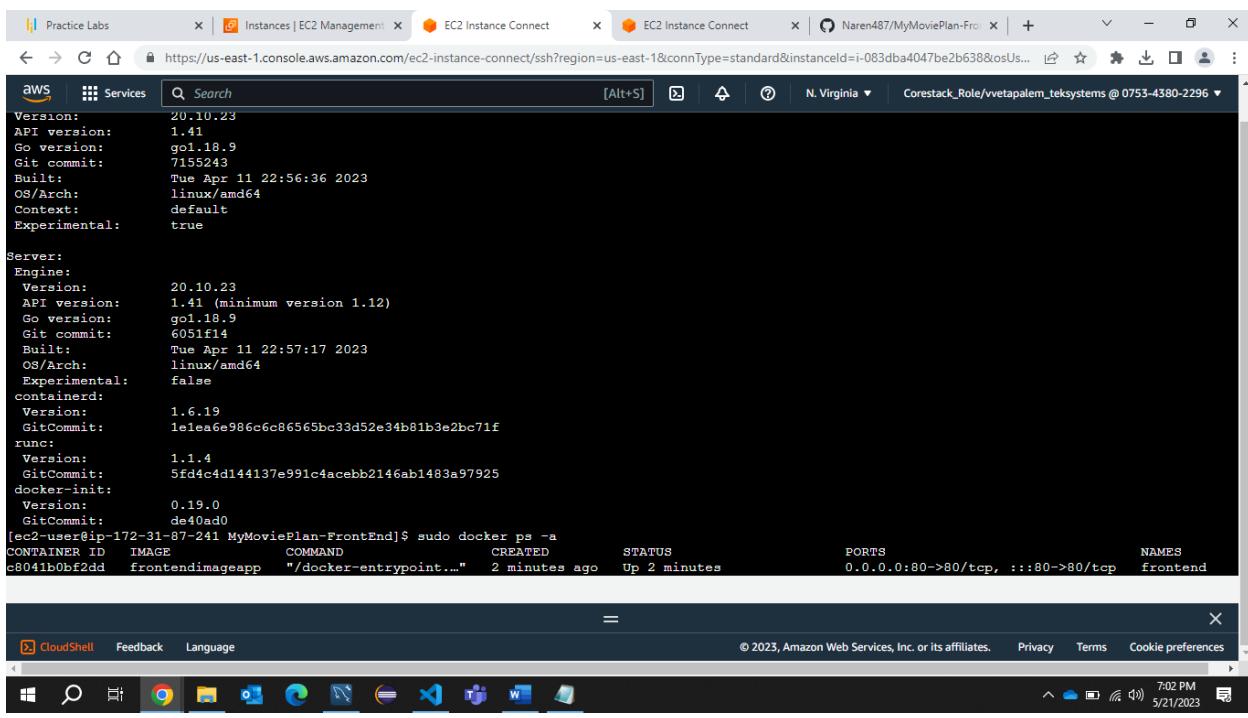
6:58 PM 5/21/2023

Dockerizing the MyMovieplan-FrontEnd Application



```
[ec2-user@ip-172-31-87-241 ~]$ sudo docker build -t frontendimageapp .
Sending build context to Docker daemon 8.190MB
Step 1/2 : FROM nginx
latest: Pulling from library/nginx
9e3ea8720c6d: Full (complete)
bf36b466679: Full (complete)
15a97cf85bb8: Full (complete)
9c2d6be5a61d: Full (complete)
6b7e4a5c7c7a: Full (complete)
8db4ca19df8: Full (complete)
Digest: sha256:480868e8c8c797794257e2abd88d0f9a8809b2fe956cbfb05dcc0bc1f7cd43
Status: Downloaded newer image for nginx:latest
--> 448a08f1d2f5
Step 2/2 : COPY build/ /usr/share/nginx/html/
--> 877a6eb083c0
Successfully built 877a6eb083c0
Successfully tagged frontendimageapp:latest
[ec2-user@ip-172-31-87-241 ~]$ sudo docker container run -d -p 80:80 --name frontend frontendimageapp
c8041b0bf2dd6b51f2ec41331d35f648568da6fce470d48eead2e9c4b33876b9
```

AWS CloudShell interface showing the command history and output of the Docker build and run commands.



```
[ec2-user@ip-172-31-87-241 ~]$ sudo docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
c8041b0bf2dd frontendimageapp "/docker-entrypoint..." 2 minutes ago Up 2 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp frontend
```

AWS CloudShell interface showing the command history and output of the Docker ps -a command.

Successfully Deployed the application in the EC2 instance

