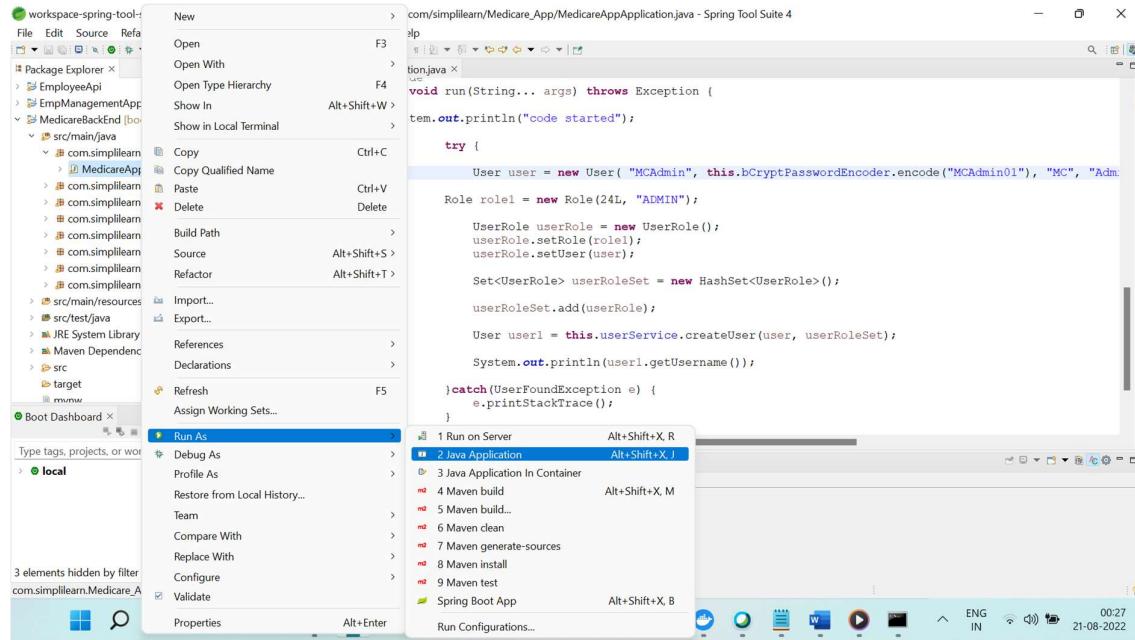


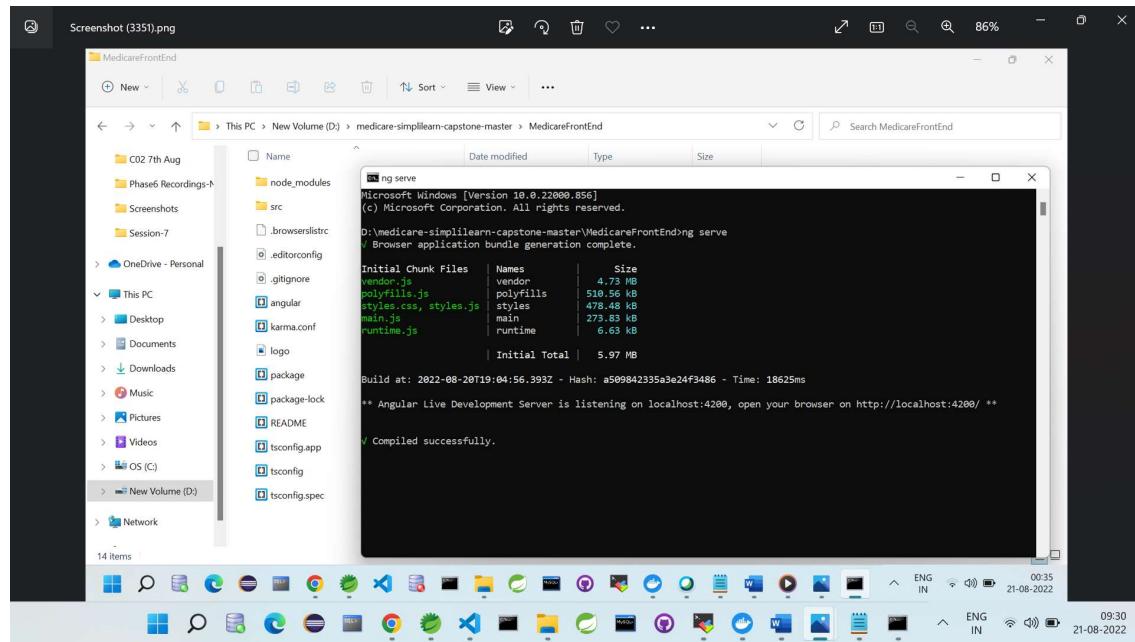
## Medicare Capstone Project

### SCREENSHOTS

1. Running SpringBoot RestAPI Project & required Tables were created accordingly.



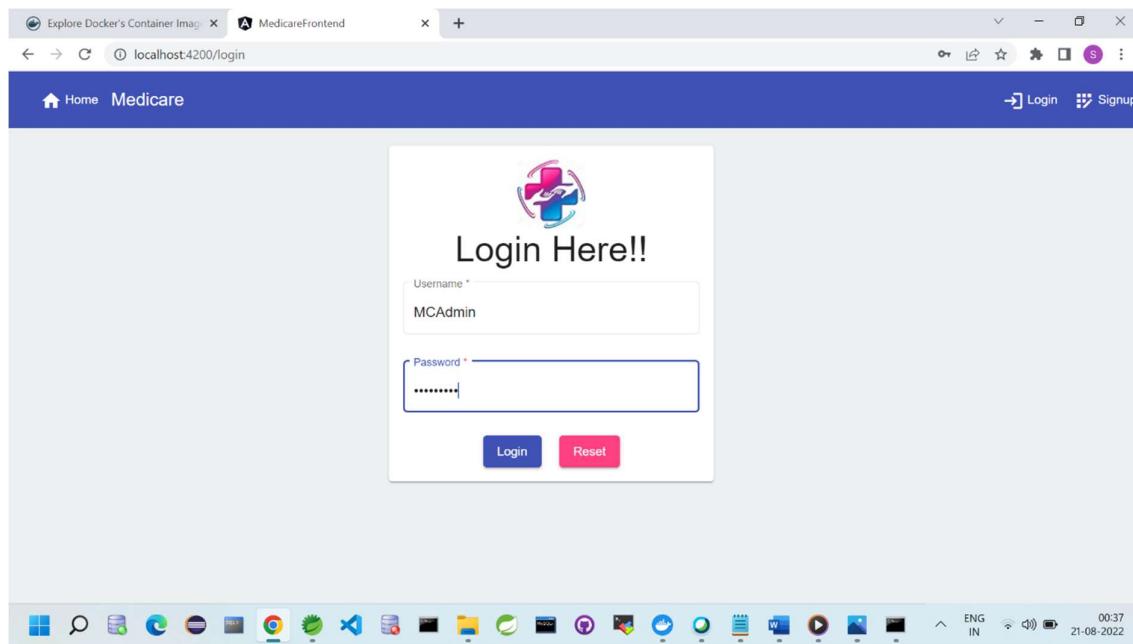
2. Running Angular Project

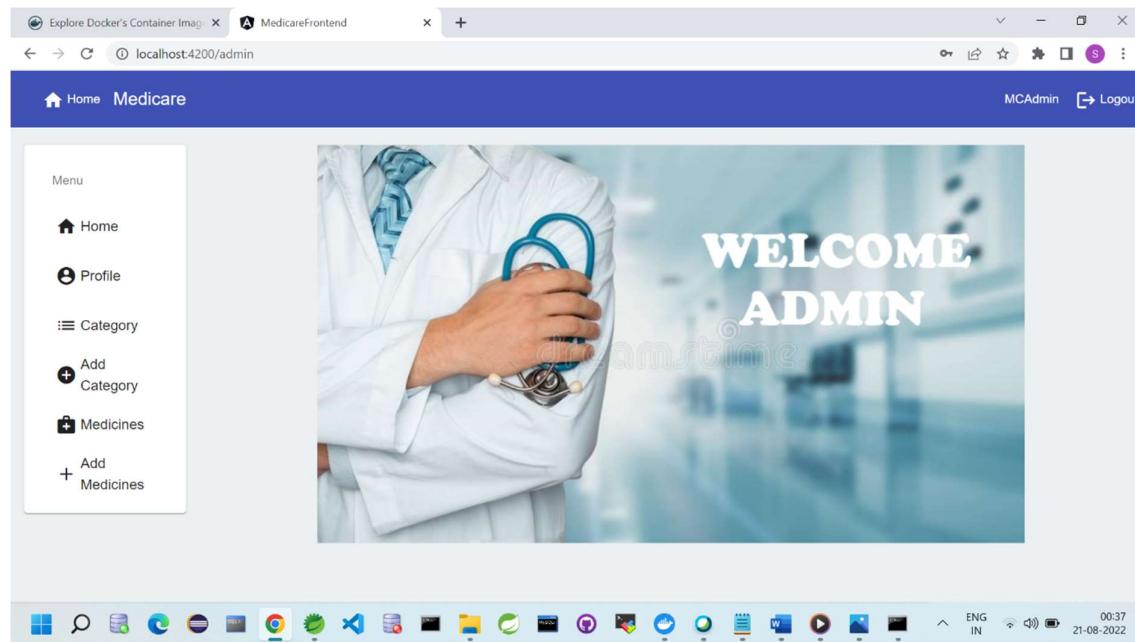


3. Now We can able to open the Medicare Webapp on <http://localhost:4200/>

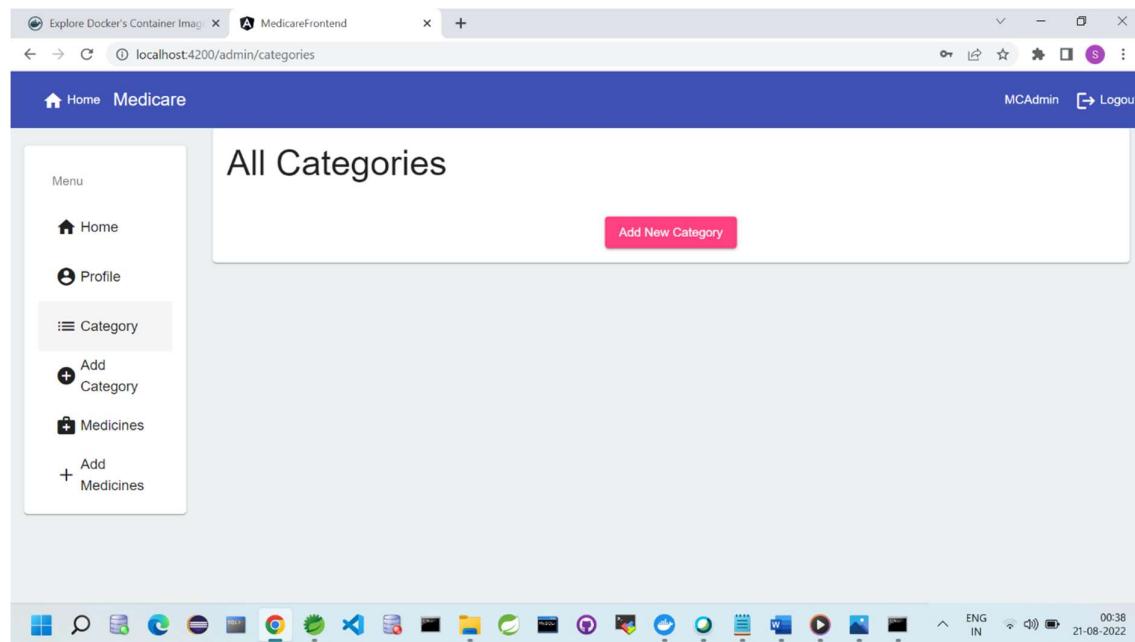


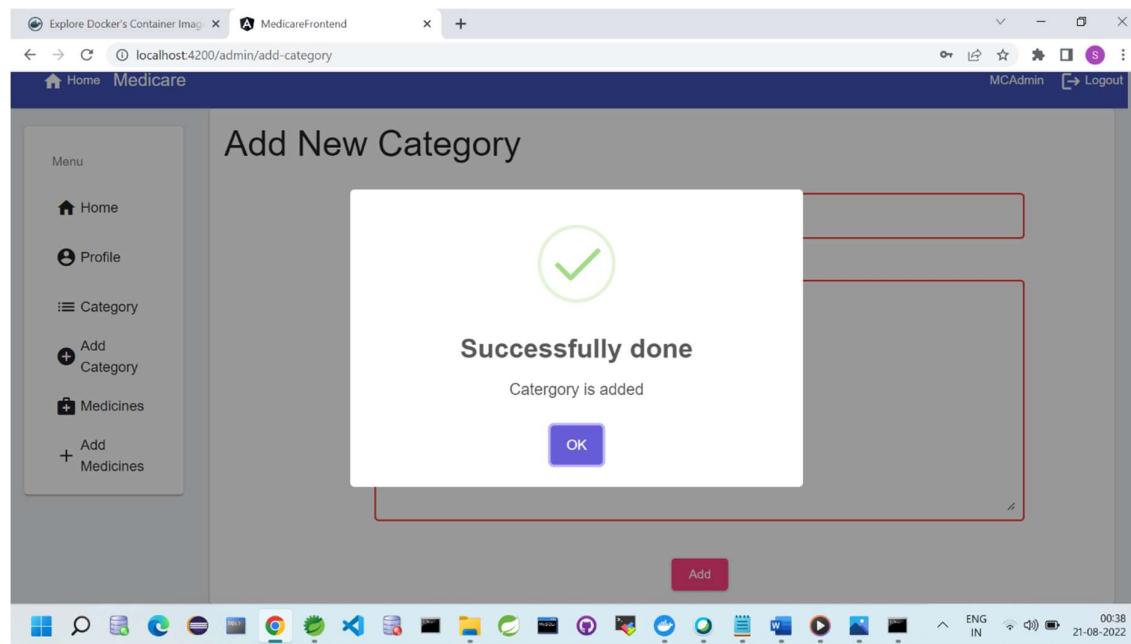
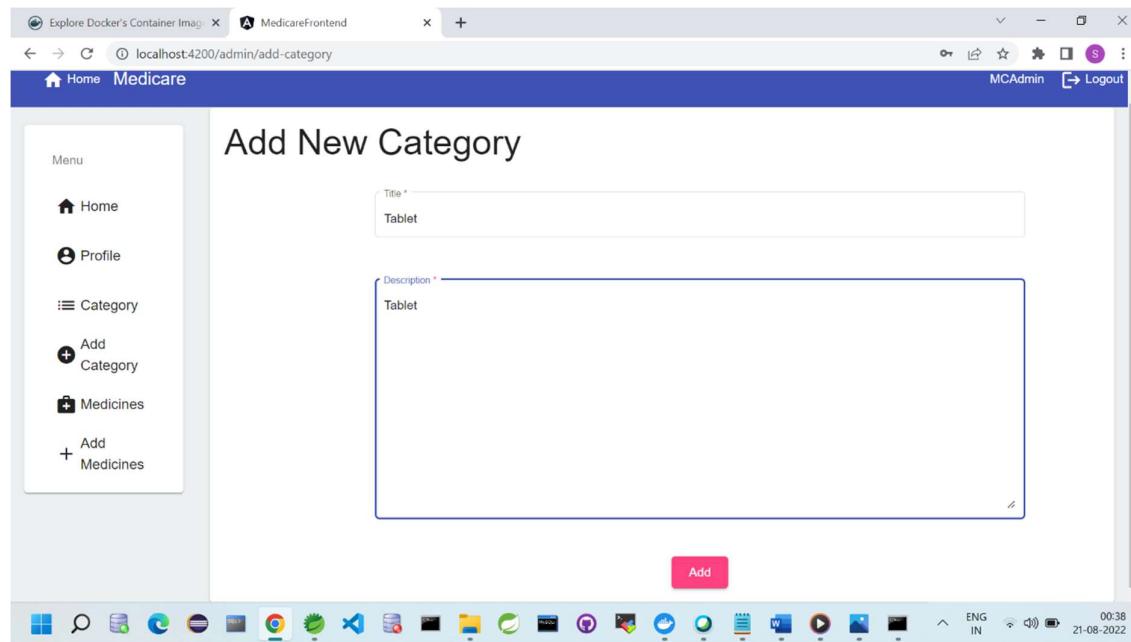
#### 4. Admin was logged in With his Credentials





5. Now Admin added the Categories (Tablet & Syrup) as below.





Explore Docker's Container Image x MedicareFrontend x +

localhost:4200/admin/add-category

Home Medicare MCAdmin Logout

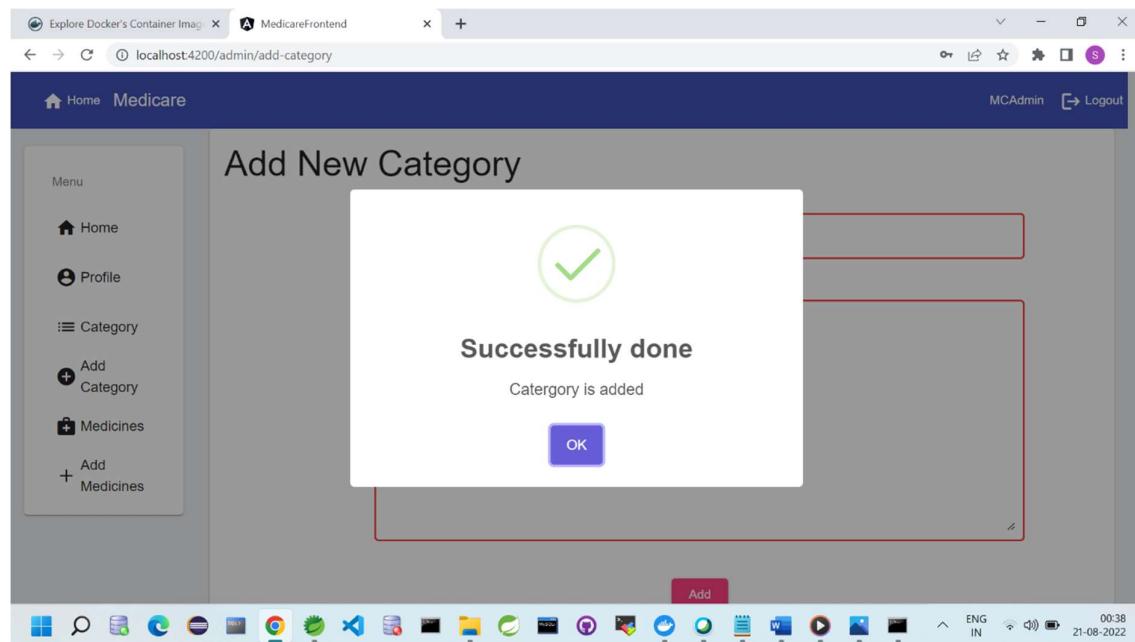
Add New Category

Title \* Syrup

Description \* Syrup

Add

Syri



The screenshot shows a web browser window titled "Explore Docker's Container Image" with the URL "localhost:4200/admin/categories". The main content area is titled "All Categories" and displays two items: "Tablet" and "Syrup", each with a small icon. A pink button at the bottom right says "Add New Category". On the left, there is a sidebar menu with options like Home, Profile, Category, Add Category, Medicines, and Add Medicines. The "Medicines" option is currently selected. At the top right, it says "MCAdmin" and "Logout". The system tray at the bottom shows various icons and the date/time "21-08-2022 00:38".

6. Now Admin added the Medicines (Dolo650mg&Junior Lanzol15mg under Tablet Category and Levulin 1mg&Montair LCKid under Syrup Category as below.

The screenshot shows a web browser window titled "Explore Docker's Container Image" with the URL "localhost:4200/admin/medicines". The main content area has a pink button labeled "Add medicine". On the left, there is a sidebar menu with options like Home, Profile, Category, Add Category, Medicines, and Add Medicines. The "Medicines" option is currently selected. At the top right, it says "MCAdmin" and "Logout". The system tray at the bottom shows various icons and the date/time "21-08-2022 00:38".

Explore Docker's Container Image x MedicareFrontend x +

localhost:4200/admin/add-medicine

## Add Medicine

Menu

- Home
- Profile
- Category
  - Add Category
- Medicines
  - + Add Medicines

Enter Name \*  
Dolo 650mg Strip

Enter Seller \*  
DO

Enter Description \*  
One Strip contains 15 Tablets

Enter Offers \*  
0

Enter Price \*  
30

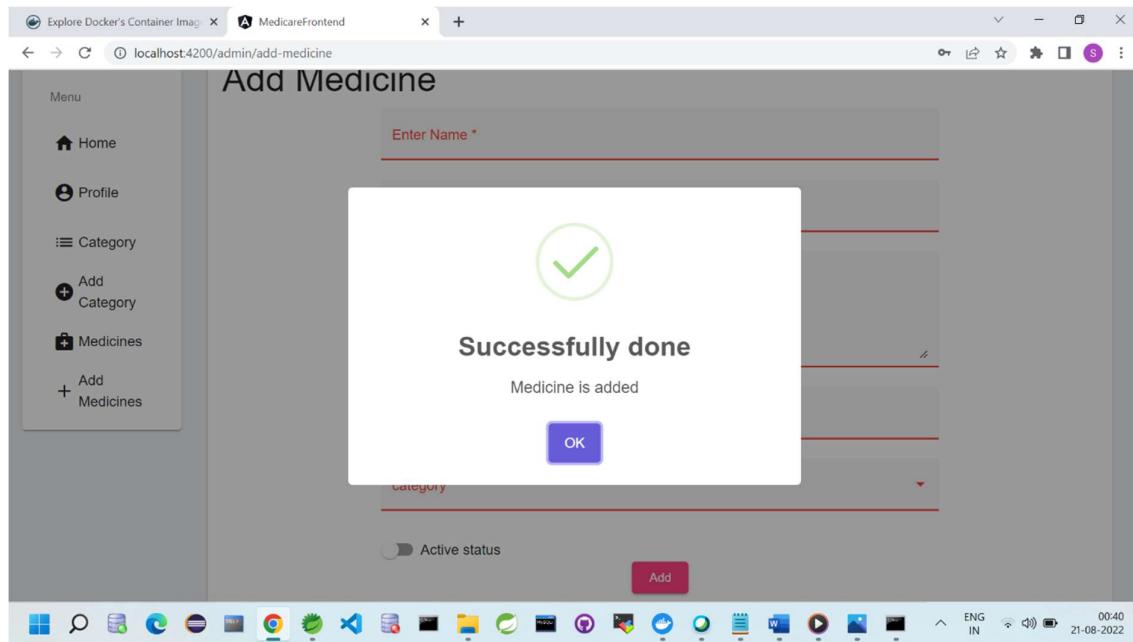
category \*  
Tablet

Active status

Add



ENG IN 00:40 21-08-2022



Explore Docker's Container Image x MedicareFrontend x +

localhost:4200/admin/add-medicine

## Add Medicine

Menu

- Home
- Profile
- Category
  - Add Category
- Medicines
  - + Add Medicines

Enter Name \*  
Junior Lanzol 15mg Strip

Enter Seller \*  
JU

Enter Description \*  
One Strip contains 15 Tablets

Enter Offers \*  
0

Enter Price \*  
120

category \*  
Tablet

Active status

Add



ENG IN 21-08-2022 00:40

Explore Docker's Container Image x MedicareFrontend x +

localhost:4200/admin/add-medicine

## Add Medicine

Menu

- Home
- Profile
- Category
  - Add Category
- Medicines
  - + Add Medicines

Enter Name \*



**Successfully done**

Medicine is added

OK

category \*

Active status

Add



ENG IN 21-08-2022 00:41

Explore Docker's Container Image x MedicareFrontend x +

localhost:4200/admin/add-medicine

## Add Medicine

Menu

- Home
- Profile
- Category
  - + Add Category
- Medicines
  - + Add Medicines

Enter Name \*  
Levolin 1mg Syrup

Enter Seller \*  
LE

Enter Description \*  
One Bottle Quantity-100ml

Enter Offers \*  
0

Enter Price \*  
20

category \*  
Syrup

Active status

Add



ENG IN 21-08-2022 00:41

Explore Docker's Container Image x MedicareFrontend x +

localhost:4200/admin/medicines

## Medicines

Menu

- Home
- Profile
- Category
  - + Add Category
- Medicines
  - + Add Medicines

Medicine Name	Type	Description	Offers	Price	Status
Dolo 650mg Strip	Tablet	One Strip contains 15 Tablets	0	30	Active: true
Junior Lanzol 15mg Strip	Tablet	One Strip contains 15 Tablets	0	120	Active: true
Levolin 1mg Syrup	Syrup	One Bottle Quantity-100ml	0	20	Active: true



ENG IN 21-08-2022 00:42

Explore Docker's Container Image x MedicareFrontend x +

localhost:4200/admin/add-medicine

Add Medicine

Menu

- Home
- Profile
- Category
  - Add Category
- Medicines
  - Add Medicines

Enter Name \*  
Montair Lc Kid Syrup

Enter Seller \*  
MO

Enter Description \*  
One Bottle Quantity-60ml

Enter Offers \*  
0

Enter Price \*  
110

category \*  
Syrup

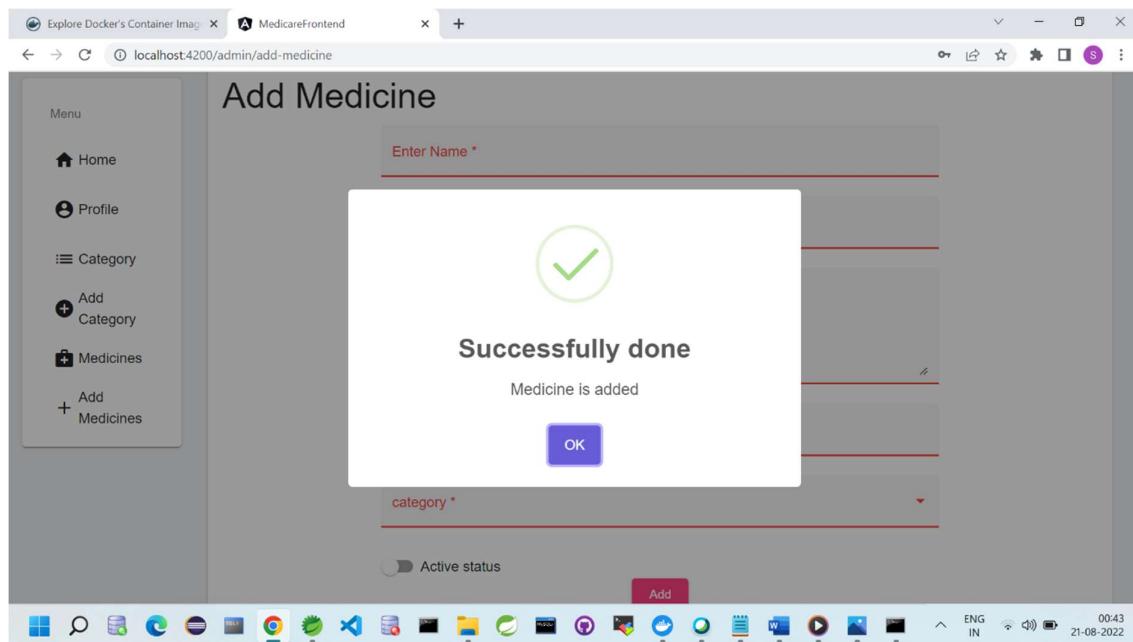
Active status

Add



ENG IN 00:43 21-08-2022

This screenshot shows the 'Add Medicine' form on a Windows desktop. The form fields are filled with sample data: Name (Montair Lc Kid Syrup), Seller (MO), Description (One Bottle Quantity-60ml), Offers (0), Price (110), and Category (Syrup). The 'Active status' checkbox is checked. A red 'Add' button is at the bottom right. The taskbar shows various application icons, and the system tray indicates the date and time as 21-08-2022, 00:43.



The screenshot shows a web browser window titled "MedicareFrontend" at the URL "localhost:4200/admin/medicines". The page has a blue header bar with the "Medicare" logo. On the left, there is a sidebar menu with options: Home, Profile, Category, Add Category, Medicines, and + Add Medicines. The main content area displays four medicine entries:

- Dolo 650mg Strip (Tablet): One Strip contains 15 Tablets. Offers: 0. Price: 30. Active: true. Buttons: Remove, Update.
- Junior Lanzol 15mg Strip (Tablet): One Strip contains 15 Tablets. Offers: 0. Price: 120. Active: true. Buttons: Remove, Update.
- Levolin 1mg Syrup (Syrup): One Bottle Quantity-100ml. Offers: 0. Price: 20. Active: true. Buttons: Remove, Update.
- Montair Lc Kid Syrup (Syrup): One Bottle Quantity-60ml. Offers: 0. Price: 110. Active: true. Buttons: Remove, Update.

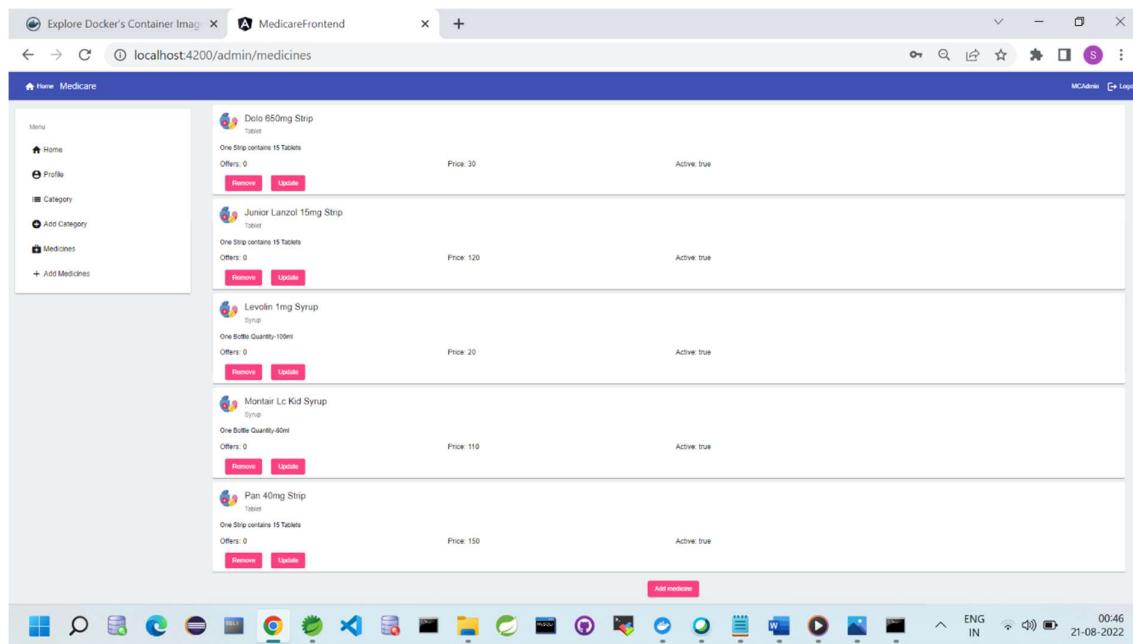
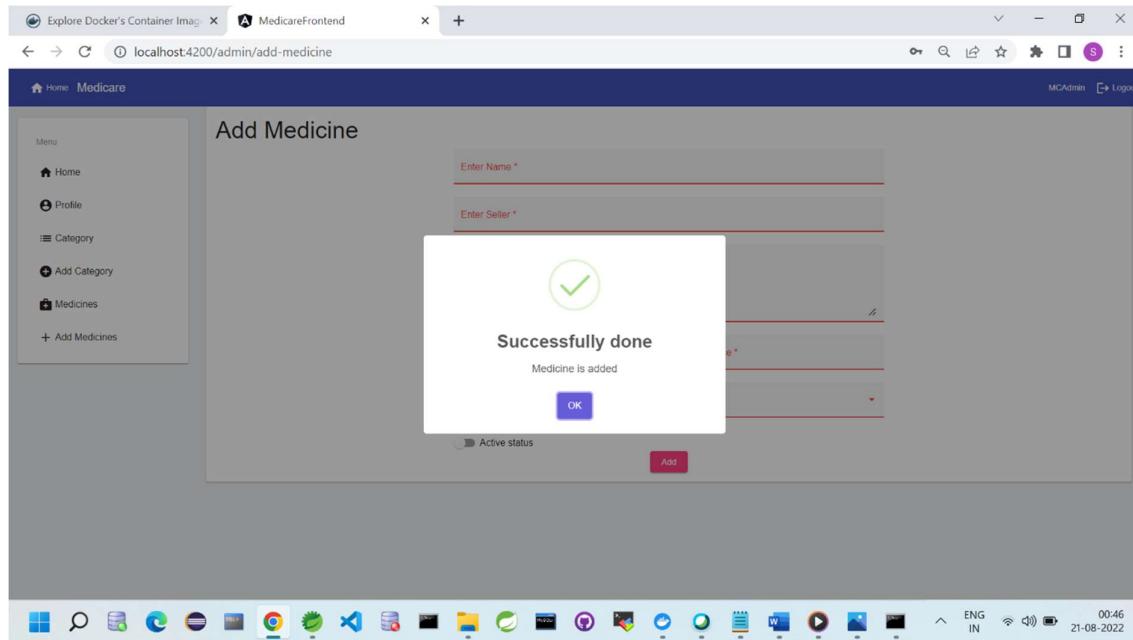
The bottom of the screen shows a Windows taskbar with various icons and the date/time "21-08-2022 00:43".

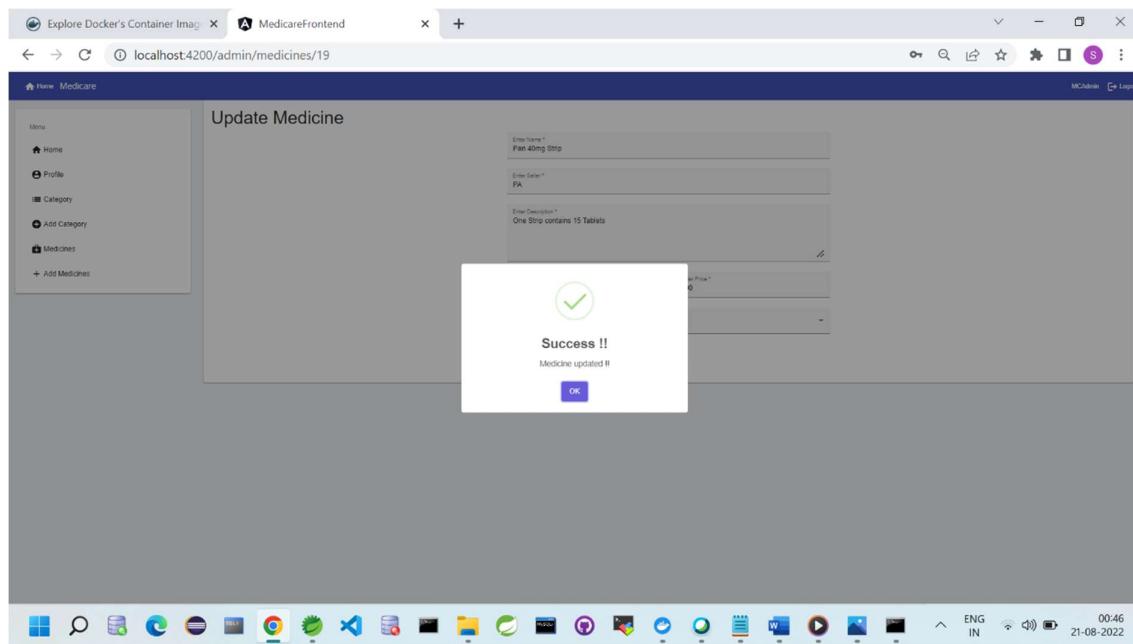
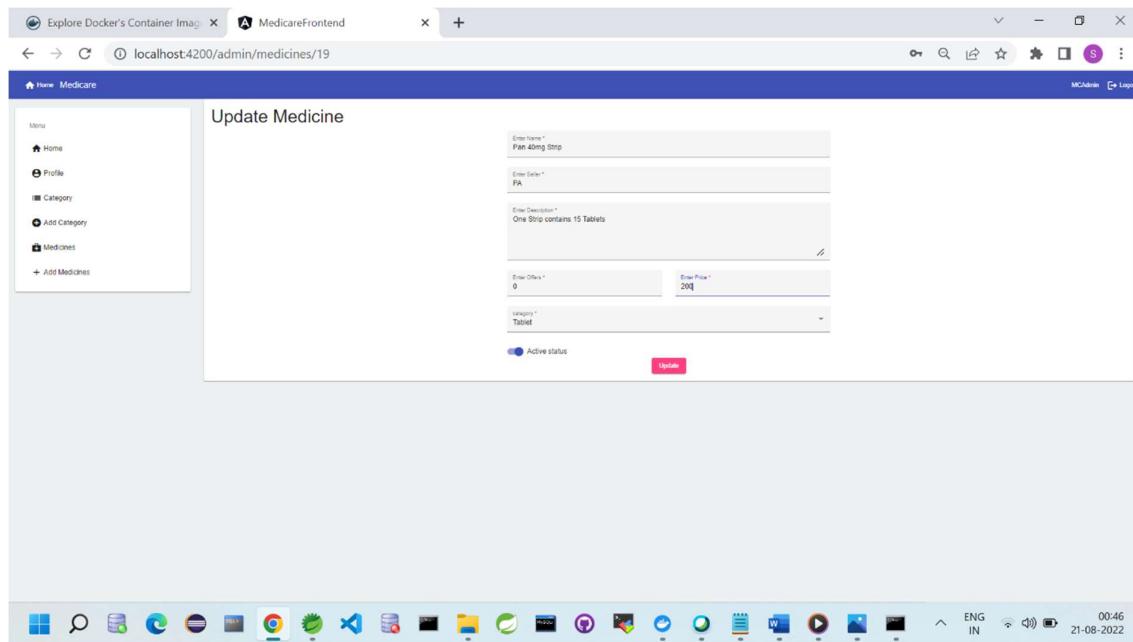
7. Admin Created the Pan40mg Strip in Tablet Category, Updated its Price from 150 to 200 INR & finally deleted the same also.

The screenshot shows a web browser window titled "MedicareFrontend" at the URL "localhost:4200/admin/add-medicine". The page has a blue header bar with the "Medicare" logo. On the left, there is a sidebar menu with options: Home, Profile, Category, Add Category, Medicines, and + Add Medicines. The main content area is titled "Add Medicine" and contains the following form fields:

- Enter Name \*: Pan 40mg Strip
- Enter Seller \*: PA
- Enter Description \*: One Strip contains 15 Tablets
- Enter Offers \*: 0
- Enter Price \*: 150
- category \*: Tablet
- Active status

At the bottom right is a red "Add" button. The bottom of the screen shows a Windows taskbar with various icons and the date/time "21-08-2022 00:46".



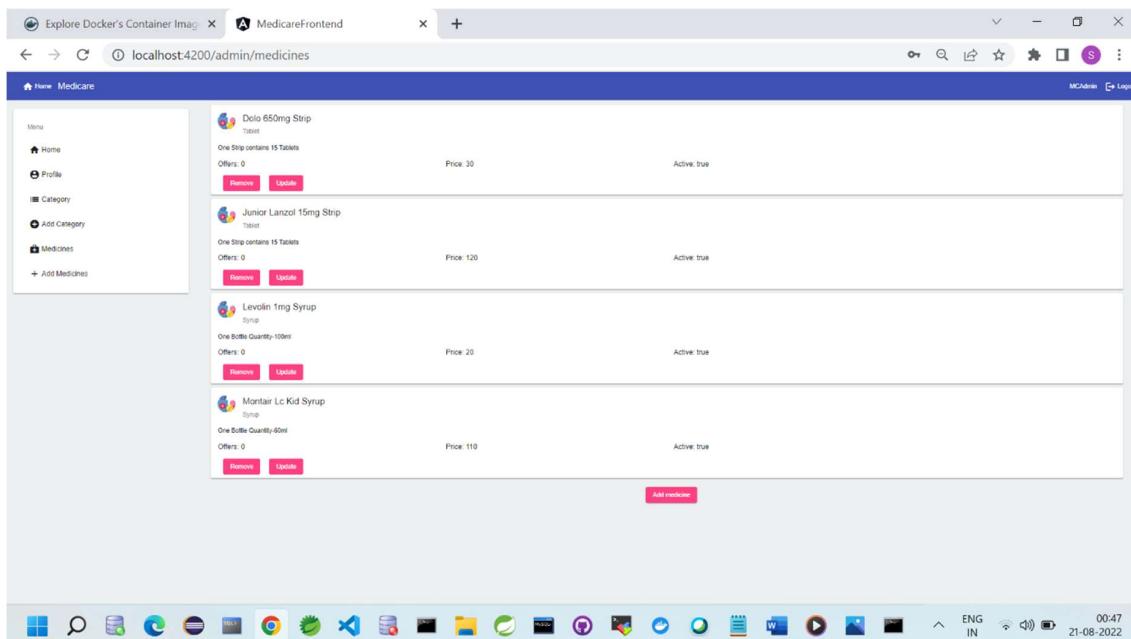
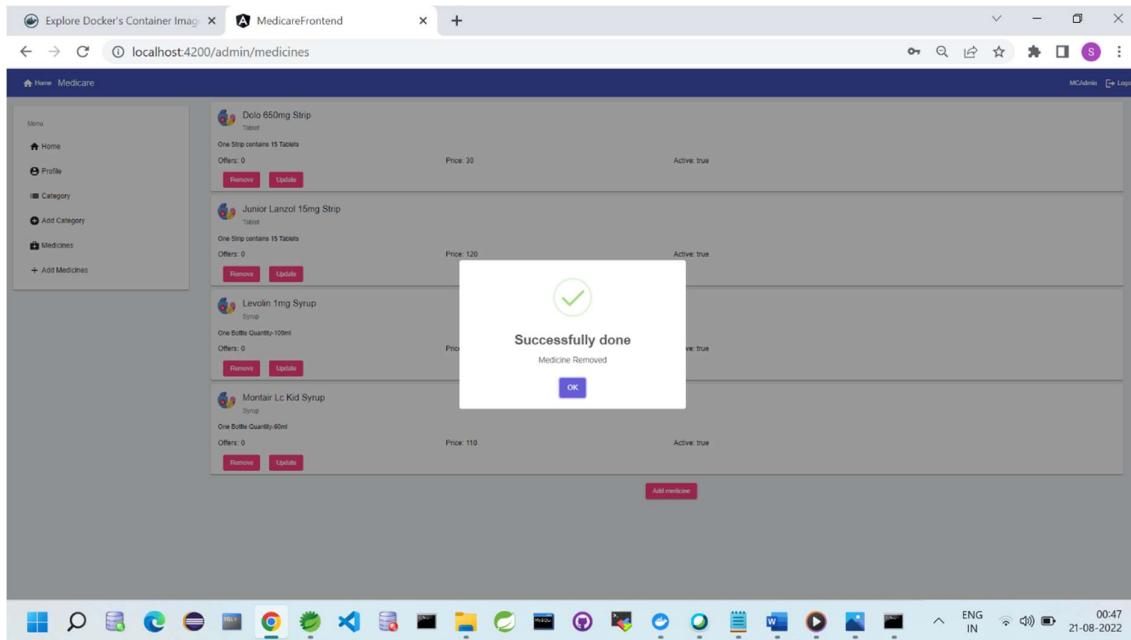


Screenshot of a web browser showing the 'MedicareFrontend' application at [localhost:4200/admin/medicines](http://localhost:4200/admin/medicines). The page displays a list of five medicine entries:

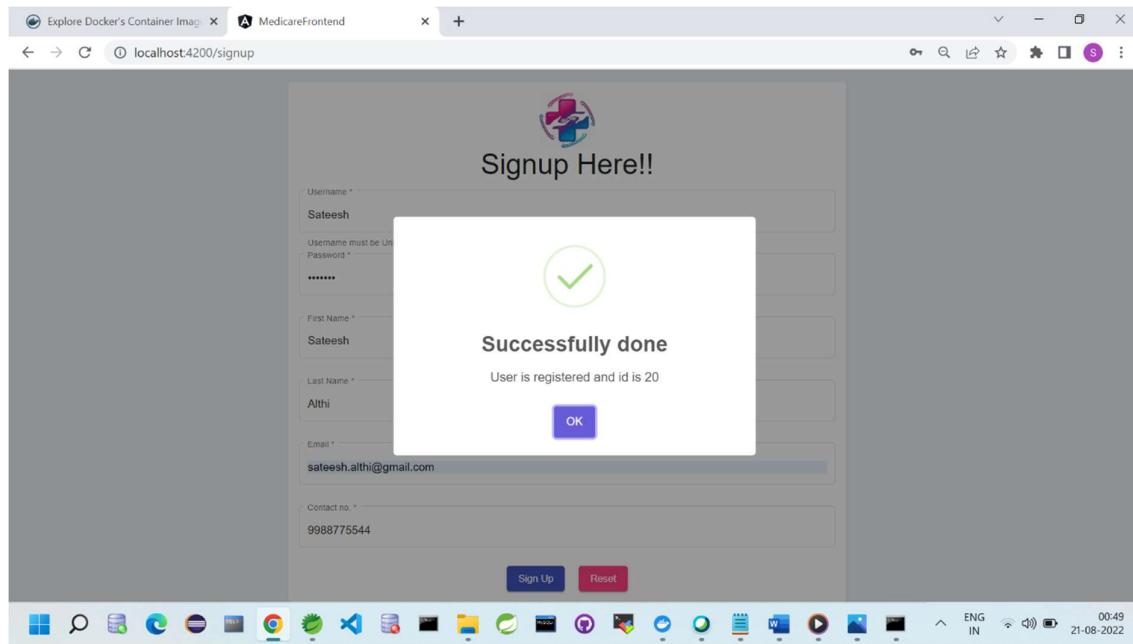
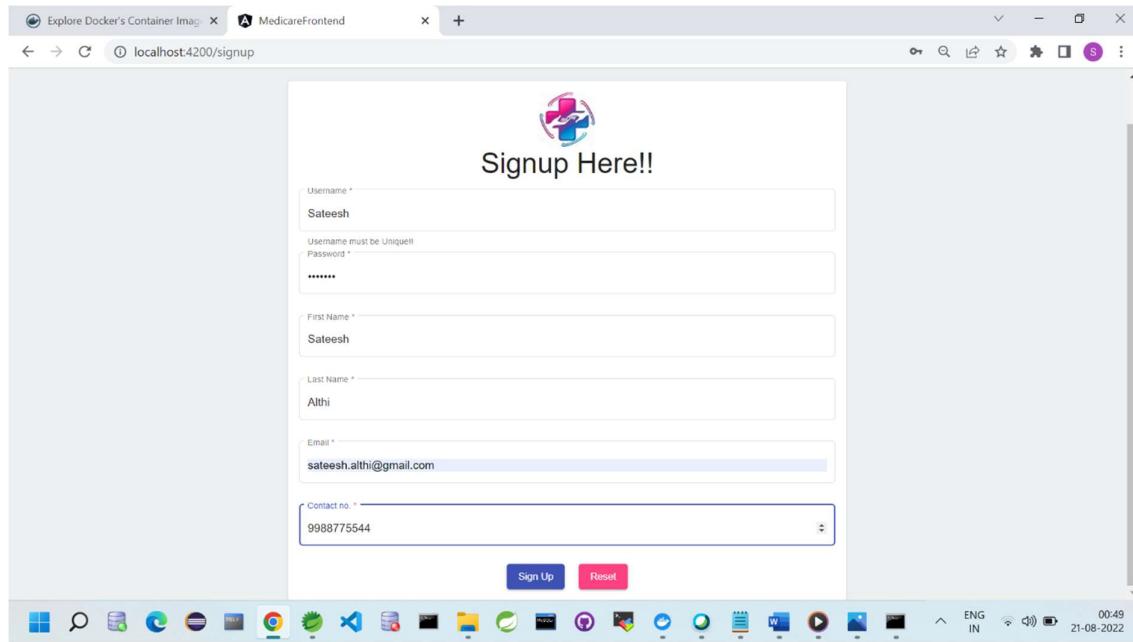
Medicine Name	Description	Price	Status
Dolo 650mg Strip	Tablet One Strip contains 15 Tablets	Price: 30	Active: true
Junior Lanzol 15mg Strip	Tablet One Strip contains 15 Tablets	Price: 120	Active: true
Levolin 1mg Syrup	Syrup One Bottle Quantity-10ml	Price: 20	Active: true
Montair Lc Kid Syrup	Syrup One Bottle Quantity-60ml	Price: 110	Active: true
Pan 40mg Strip	Tablet One Strip contains 15 Tablets	Price: 200	Active: true

The sidebar on the left includes links for Home, Profile, Category, Add Category, Medicines, and Add Medicines. A 'Remove' and 'Update' button is present for each medicine entry. A red 'Add medicine' button is located at the bottom right of the list. The system status bar at the bottom shows 'ENG IN' and the date '21-08-2022'.

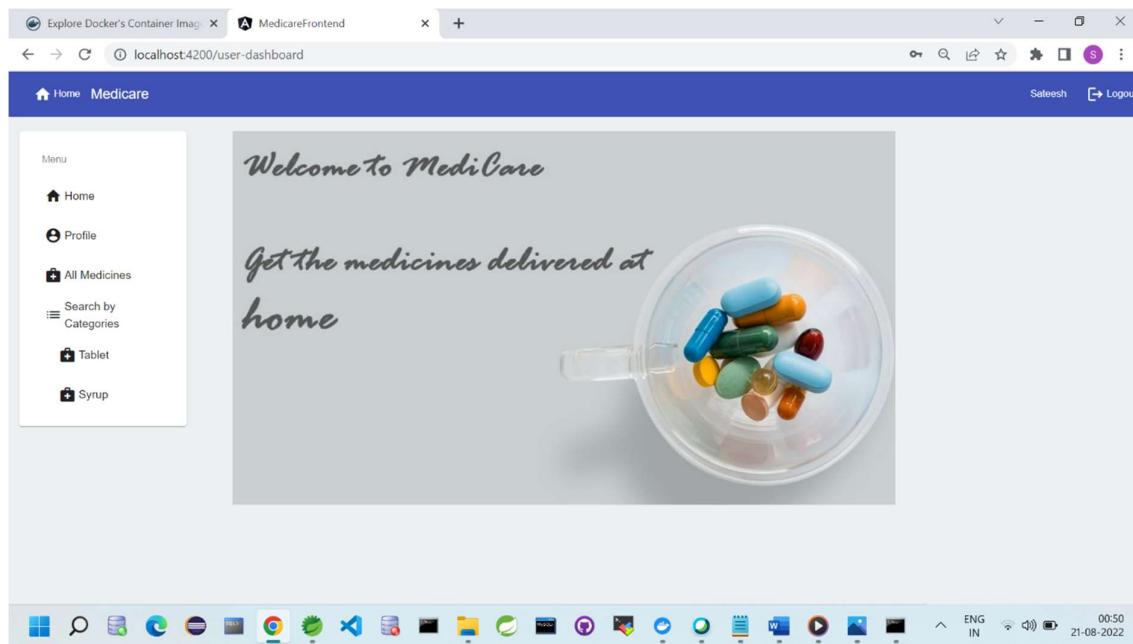
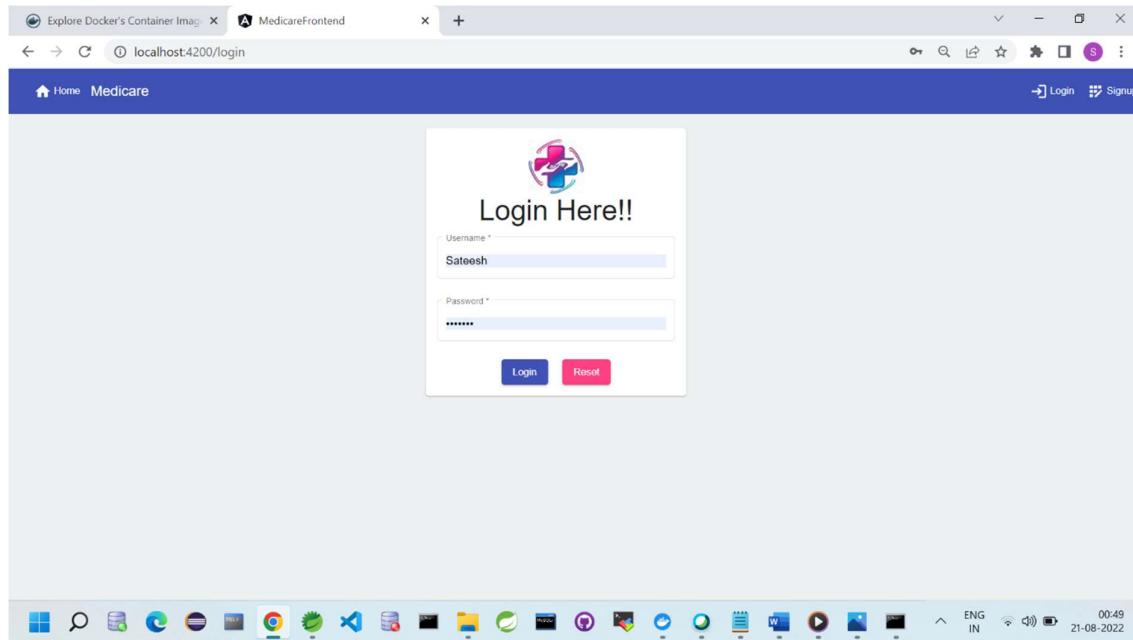
Screenshot of the same web browser session, showing a confirmation dialog box over the list of medicines. The dialog box contains an information icon, the text 'Are you sure?', and two buttons: 'Delete' and 'Cancel'.



8. After clicking on Logout MCAdmin will be logged out. Now New User can register by clicking on signup.



9. Now the registered User Logged in with his credentials



10. User can able to see all the medicines & Category wise also, which are created by MCAdmin.

Explore Docker's Container Image MedicareFrontend

localhost:4200/user-dashboard/0

Home Medicare

Seteesh Logout

Menu

- Home
- Profile
- All Medicines
- Search by Categories
- Tablet
- Syrup

Item to search  Search

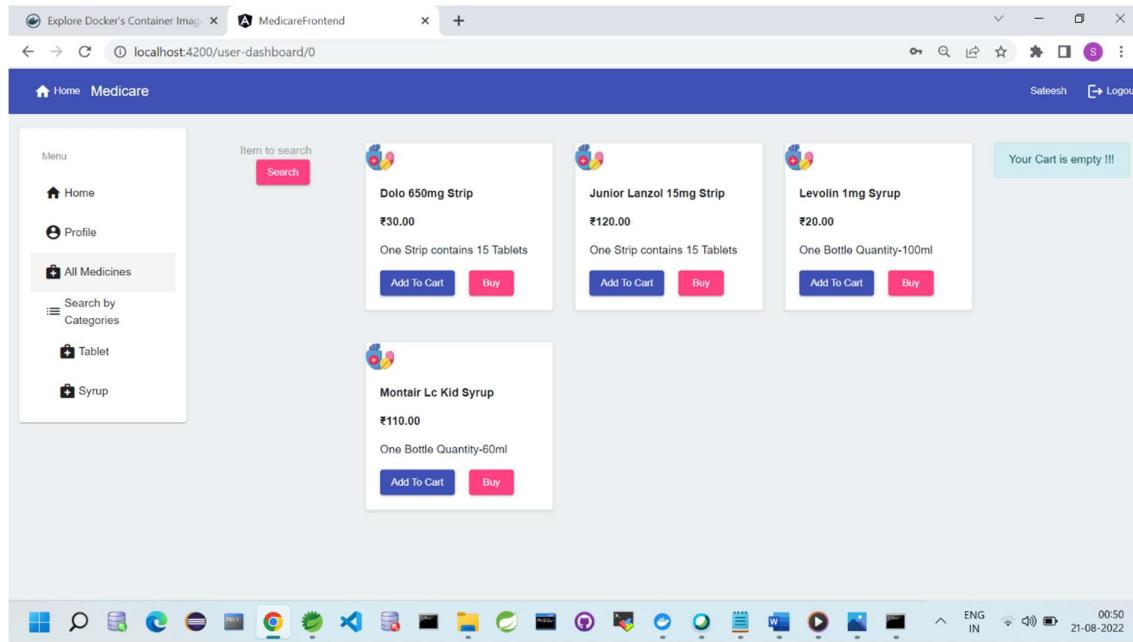
Dolo 650mg Strip  
₹30.00  
One Strip contains 15 Tablets  
[Add To Cart](#) [Buy](#)

Junior Lanzol 15mg Strip  
₹120.00  
One Strip contains 15 Tablets  
[Add To Cart](#) [Buy](#)

Levolin 1mg Syrup  
₹20.00  
One Bottle Quantity-100ml  
[Add To Cart](#) [Buy](#)

Montair Lc Kid Syrup  
₹110.00  
One Bottle Quantity-60ml  
[Add To Cart](#) [Buy](#)

Your Cart is empty !!!



Explore Docker's Container Image MedicareFrontend

localhost:4200/user-dashboard/13

Home Medicare

Seteesh Logout

Menu

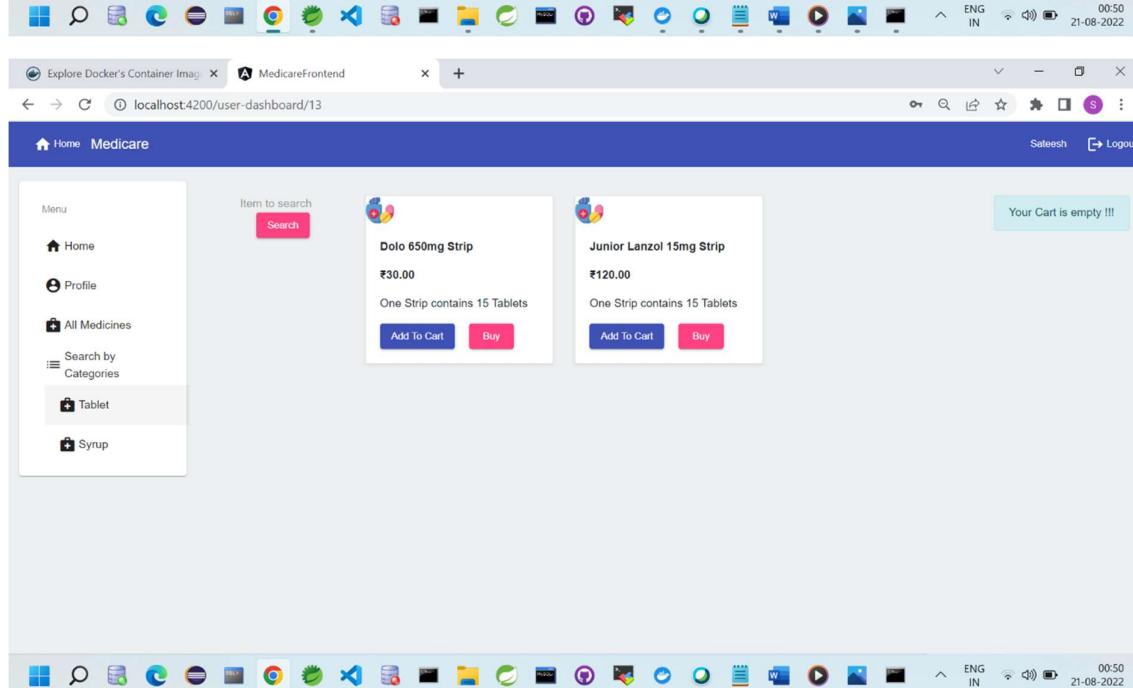
- Home
- Profile
- All Medicines
- Search by Categories
- Tablet
- Syrup

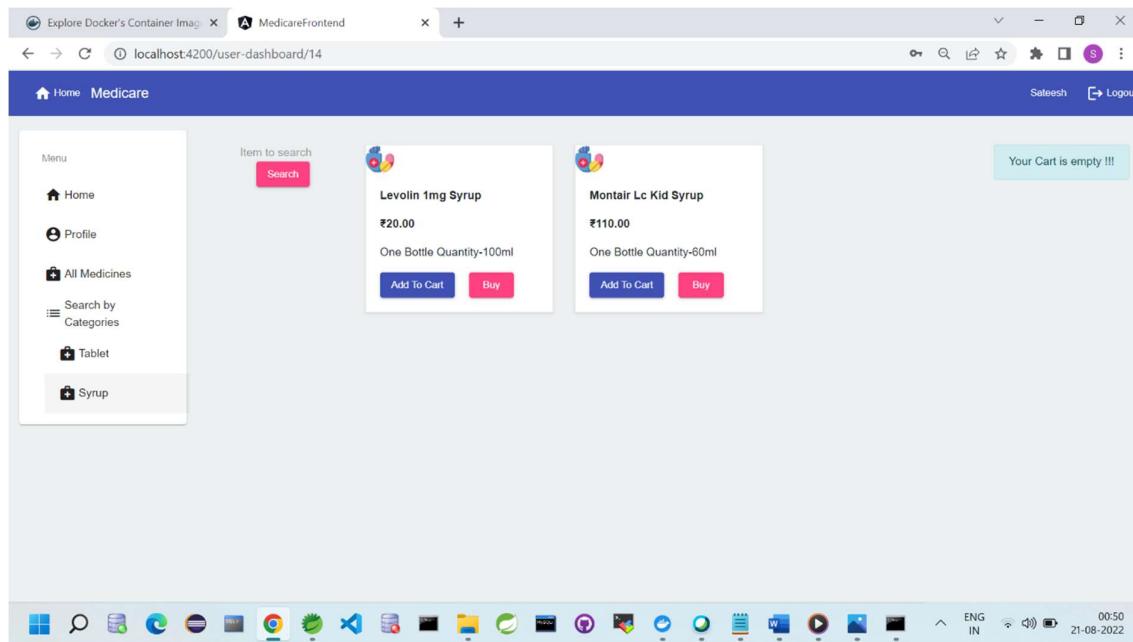
Item to search  Search

Dolo 650mg Strip  
₹30.00  
One Strip contains 15 Tablets  
[Add To Cart](#) [Buy](#)

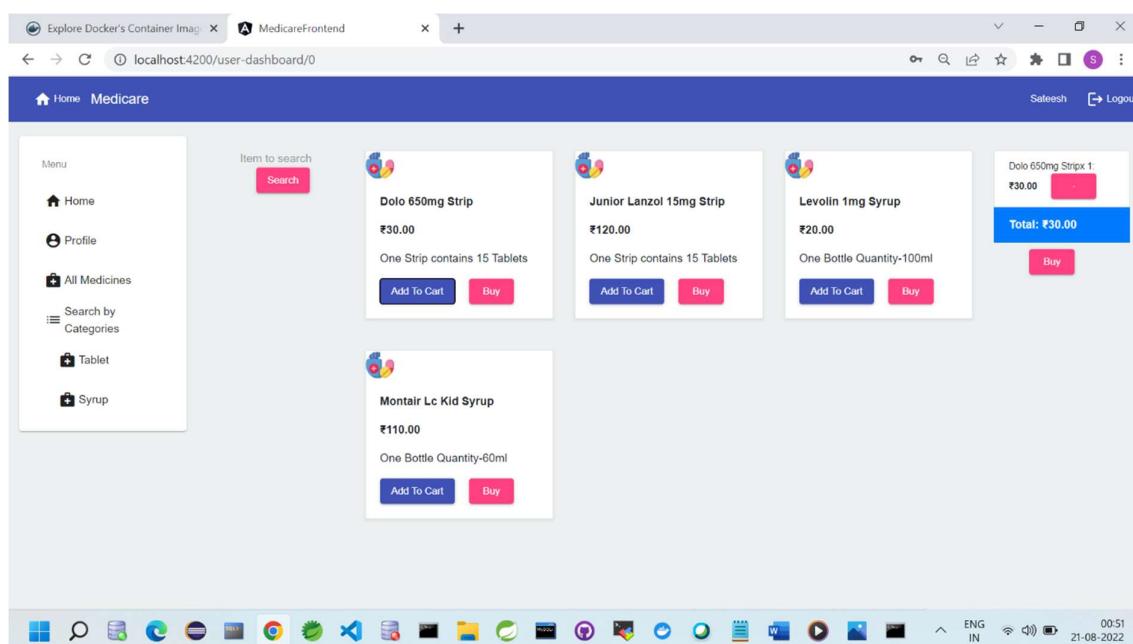
Junior Lanzol 15mg Strip  
₹120.00  
One Strip contains 15 Tablets  
[Add To Cart](#) [Buy](#)

Your Cart is empty !!!





11. User is adding the items to cart & accordingly Total Value will vary.



The screenshot shows a web browser window titled "MedicareFrontend" at the URL "localhost:4200/user-dashboard/0". The page has a blue header bar with "Medicare" and a user profile icon. On the left, there's a sidebar menu with options like Home, Profile, All Medicines, Search by Categories, Tablet, and Syrup. A search bar is present. The main content area displays a grid of medicine products:

- Dolo 650mg Strip: ₹30.00, One Strip contains 15 Tablets, Add To Cart, Buy
- Junior Lanzol 15mg Strip: ₹120.00, One Strip contains 15 Tablets, Add To Cart, Buy
- Levolin 1mg Syrup: ₹20.00, One Bottle Quantity-100ml, Add To Cart, Buy
- Montair Lc Kid Syrup: ₹110.00, One Bottle Quantity-60ml, Add To Cart, Buy

A summary section on the right shows the total value: Total: ₹280.00, with a large blue "Buy" button.

12. After clicking on Buy, it will Proceed to Payment Page in which Total order value will be there

The screenshot shows a web browser window titled "MedicareFrontend" at the URL "localhost:4200/user-dashboard/payment". The page has a blue header bar with "MedicareFrontend" and a user profile icon. The sidebar menu is identical to the previous screen. The main content area is divided into two sections:

- Address:** Shipping Address form with fields for First Name (Sateesh), Last Name (Althi), Address (Whitelisted), City (Bangalore), State (Karnataka), Zip / Postal Code (560066), Phone Number (998877544), and Email Address (sateesh.althi@gmail.com).
- Review Order:** A table showing the items in the cart with their details and prices:

Product Name	Quantity	Price
Dolo 650mg Strip	1	₹30.00
Junior Lanzol 15mg Strip	1	₹120.00
Levolin 1mg Syrup	1	₹20.00
Montair Lc Kid Syrup	1	₹110.00

Subtotal: ₹280.00, Shipping: Free, Order Total: ₹280.00.

A "Secure Payment" section at the bottom includes fields for Card Type (Visa) and Credit Card Number.

13. After clicking on Place order, Payment will be successful.

Screenshot of a web browser showing a user dashboard for payment. The page displays a summary of items in the cart and a secure payment form.

**Cart Summary:**

Product	Description	Quantity	Price
Junior Lanzol 15mg Strip	Product Name: Junior Lanzol 15mg Strip	1	₹120.00
Levolin 1mg Syrup	Product Name: Levolin 1mg Syrup	1	₹20.00
Montair Lc Kid Syrup	Product Name: Montair Lc Kid Syrup	1	₹110.00

**Subtotal:** ₹280.00  
**Shipping:** Free  
**Order Total:** ₹280.00

**Secure Payment Form:**

Card Type: Visa  
Credit Card Number:  
Card CVV:  
Expiration Date: Month Year  
Pay secure using your credit card: VISA MASTERCARD AMERICAN EXPRESS  
Place Order

Screenshot of a web browser showing a user dashboard for payment. A success message is displayed over the payment form.

**Success Message:**

Successfully done  
Payment Successful!

**Cart Summary:**

Product	Description	Quantity	Price
Junior Lanzol 15mg Strip	Product Name: Junior Lanzol 15mg Strip	1	₹120.00
Levolin 1mg Syrup	Product Name: Levolin 1mg Syrup	1	₹20.00
Montair Lc Kid Syrup	Product Name: Montair Lc Kid Syrup	1	₹110.00

**Subtotal:** ₹280.00  
**Shipping:** Free  
**Order Total:** ₹280.00

## 14.AWS EC2 Instance Created

The screenshot shows the 'Choose an Amazon Machine Image (AMI)' step of the Launch Instance Wizard. It lists several AMI options:

- SUSE Linux Enterprise Server 15 SP4 (HVM), SSD Volume Type - ami-08e167817c87ed7fd (64-bit x86) / ami-0ea04f563dd1b848a (64-bit Arm)  
Free tier eligible  
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Ubuntu Server 22.04 LTS (HVM), SSD Volume Type - ami-052ef3df9dad4825 (64-bit x86) / ami-070650c005cce4203 (64-bit Arm)  
Ubuntu Server 22.04 LTS (HVM) EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).  
Free tier eligible  
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-08d4ac5b634553e16 (64-bit x86) / ami-0888c389af05d881a (64-bit Arm)  
Ubuntu Server 20.04 LTS (HVM) EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).  
Free tier eligible  
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Microsoft Windows Server 2019 Base - ami-0c95d38b24a19de18  
Microsoft Windows 2019 Datacenter edition [English]

On the right, there are 'Select' buttons for each row, and a '64-bit (x86)' radio button is selected.

At the top, a message says: "This launch experience will soon be reaching end of life. We've introduced a new launch experience with new and updated features. You can opt in now by choosing Opt in to the new experience. Currently, you can opt out to the old experience at any time. Please send us your feedback about the new experience so that we can continue to improve it." A "Opt in to the new experience" button is present.

Below the wizard steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, 7. Review.

The screenshot shows the 'Launch Status' step of the Launch Instance Wizard. It displays the following information:

- Your instances are now launching.  
The following instance launches have been initiated: i-053f3772890db24e2 View launch log
- Get notified of estimated charges  
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

Below this, under 'How to connect to your instances':

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out how to connect to your instances.](#)

Here are some helpful resources to get you started:

- How to connect to your Linux instance
- Learn about AWS Free Usage Tier
- Amazon EC2 User Guide
- Amazon EC2 Discussion Forum

While your instances are launching you can also:

- Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
- Create and attach additional EBS volumes (Additional charges may apply)
- Manage security groups

At the bottom right is a 'View Instances' button.

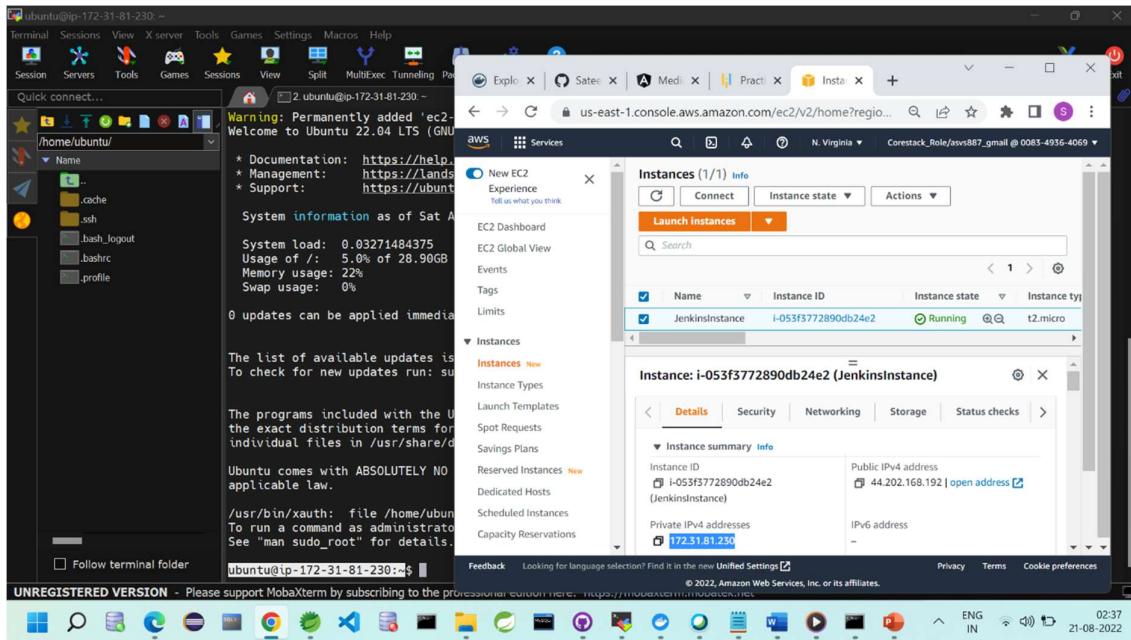
At the very bottom of the page is a standard AWS navigation bar with links for Feedback, Unified Settings, Privacy, Terms, and Cookie preferences, along with language and date/time information (ENG IN, 02:33, 21-08-2022).

## 15. AWS EC2 instance running as below

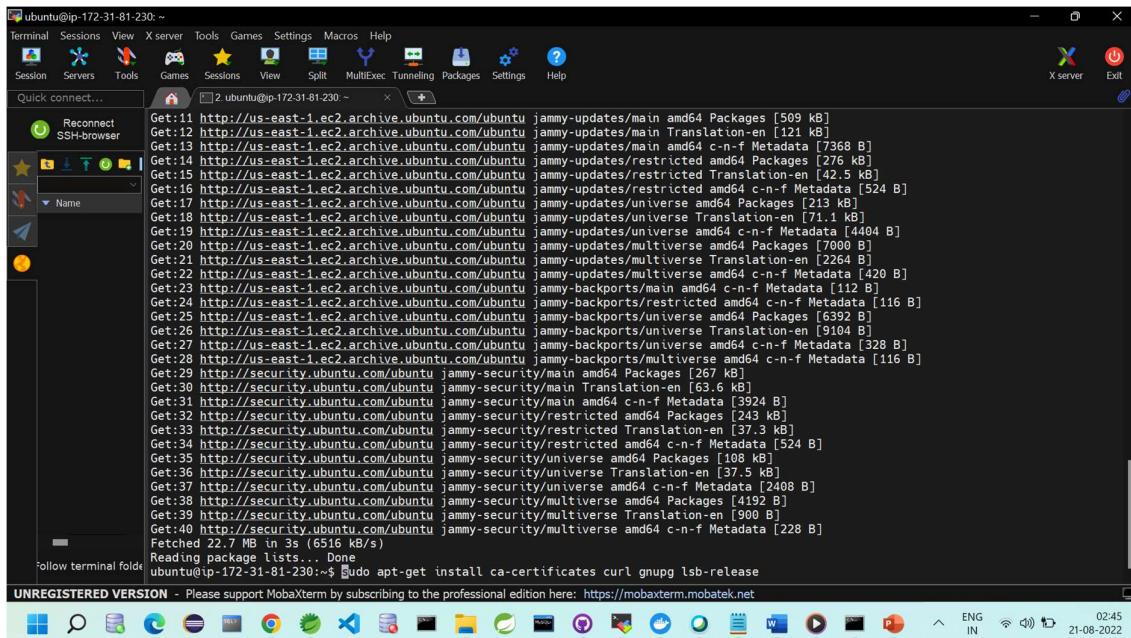
The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with options like New EC2 Experience, EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances (New), Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images (AMIs New, AMI Catalog), and Elastic Block Store. The main area displays a table titled 'Instances (1/1) Info' with one row. The row details are: Name (JenkinsInstance), Instance ID (i-053f3772890db24e2), Instance state (Running), Instance type (t2.micro), Status check (Initializing), Alarm status (No alarms), Availability Zone (us-east-1c), and Public IPv4 DNS (ec2-44-202-168-192.ec2). Below this, a detailed view for 'Instance: i-053f3772890db24e2 (JenkinsInstance)' is shown with tabs for Details, Security, Networking, Storage, Status checks, Monitoring, and Tags. The Details tab shows Instance ID (i-053f3772890db24e2), Public IPv4 address (44.202.168.192), Private IPv4 address (172.31.81.236), Instance state (Running), and Private IP DNS name (ip-172-31-81-230.ec2.internal). The screenshot also includes a feedback bar at the bottom and a system tray at the very bottom.

## 16. Connected to EC2 instance (through MobaXterm) from Local Machine as below

The screenshot shows a MobaXterm window. The title bar says 'drives/d/Keys'. The interface includes a toolbar with icons for Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help, Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunneling, Packages, Settings, and Help. A status bar at the bottom right shows ENG IN, 02:34, and 21-08-2022. The main area has a session list on the left with 'User sessions' and a terminal window on the right. The terminal window title is 'MobaXterm Personal Edition v22.0'. It displays a welcome message about accessible drives and DISPLAY settings. Below this, a command line shows: 'cd d:', 'Keys: command not found', 'cd Keys', and 'ssh -i "JenkinsPipeline.pem" ubuntu@ec2-44-202-168-192.compute-1.amazonaws.com'. A note at the bottom says 'UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net/'. The system tray at the very bottom is identical to the one in the previous screenshot.



## 17. Installing Docker on AWS EC2



ubuntu@ip-172-31-81-230: ~

```
Preparing to unpack .../8-libslirp0_4.6.1-1build1_amd64.deb ...
Unpacking libslirp0:amd64 (4.6.1-1build1) ...
Selecting previously unselected package slirp4netns.
Preparing to unpack .../9-slirp4netns_1.0.1-2_amd64.deb ...
Unpacking slirp4netns (1.0.1-2) ...
Setting up docker-scan-plugin (0.17.0~ubuntu-jammy) ...
Setting up containerd.io (1.6.7-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.6.0~ubuntu-jammy) ...
Setting up liblible7:amd64 (2.4.6-15build2) ...
Setting up docker-ce-cli (5:20.10.17-3~0~ubuntu-jammy) ...
Setting up libslirp0:amd64 (4.6.1-1build1) ...
Setting up pign (2.6-1) ...
Setting up docker-ce-rootless-extras (5:20.10.17~3~0~ubuntu-jammy) ...
Setting up slirp4netns (1.0.1-2) ...
Setting up docker-ce (5:20.10.17-3~0~ubuntu-jammy) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ sudo docker -v
```

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21-08-2022 02:57

18.Docker successfully installed on AWS EC2 & its version is showing as below

ubuntu@ip-172-31-81-230: ~

```
Selecting previously unselected package slirp4netns.
Preparing to unpack .../9-slirp4netns_1.0.1-2_amd64.deb ...
Unpacking slirp4netns (1.0.1-2) ...
Setting up docker-scan-plugin (0.17.0~ubuntu-jammy) ...
Setting up containerd.io (1.6.7-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.6.0~ubuntu-jammy) ...
Setting up liblible7:amd64 (2.4.6-15build2) ...
Setting up docker-ce-cli (5:20.10.17-3~0~ubuntu-jammy) ...
Setting up libslirp0:amd64 (4.6.1-1build1) ...
Setting up pign (2.6-1) ...
Setting up docker-ce-rootless-extras (5:20.10.17~3~0~ubuntu-jammy) ...
Setting up slirp4netns (1.0.1-2) ...
Setting up docker-ce (5:20.10.17-3~0~ubuntu-jammy) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ sudo docker -v
Docker version 20.10.17, build 100c701
ubuntu@ip-172-31-81-230:~$
```

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21-08-2022 02:57

## 19.Ubuntu & SQL images getting pulled from Dockerhub

```
ubuntu@ip-172-31-81-230: ~
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
Selecting previously unselected package slirp4netns.
Preparing to unpack .../9-slirp4netns_1.0.1-2_amd64.deb ...
Unpacking slirp4netns (1.0.1-2) ...
Setting up docker-scan-plugin (0.17.0~ubuntu-jammy) ...
Setting up containerd.io (1.6.7-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service -> /lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.6.0~ubuntu-jammy) ...
Setting up liblible7:amd64 (2.4.6-15build2) ...
Setting up docker-ce-cli (5:20.10.17~3-0~ubuntu-jammy) ...
Setting up libslirp0:amd64 (4.6.1-1build1) ...
Setting up pigz (2.6-1) ...
Setting up docker-ce-rootless-extras (5:20.10.17~3-0~ubuntu-jammy) ...
Setting up slirp4netns (1.0.1-2) ...
Setting up docker-ce (5:20.10.17~3-0~ubuntu-jammy) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service -> /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket -> /lib/systemd/system/docker.socket.
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ sudo docker -v
Docker version 20.10.17, build 100c701
ubuntu@ip-172-31-81-230:~$ sudo docker pull ubuntu
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
Follow terminal folder
02:58 21-08-2022
```

```
ubuntu@ip-172-31-81-230: ~
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
Selecting previously unselected package liblible7:amd64 (2.4.6-15build2) ...
Setting up docker-ce-cli (5:20.10.17~3-0~ubuntu-jammy) ...
Setting up libslirp0:amd64 (4.6.1-1build1) ...
Setting up pigz (2.6-1) ...
Setting up docker-ce-rootless-extras (5:20.10.17~3-0~ubuntu-jammy) ...
Setting up slirp4netns (1.0.1-2) ...
Setting up docker-ce (5:20.10.17~3-0~ubuntu-jammy) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service -> /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket -> /lib/systemd/system/docker.socket.
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ sudo docker -v
Docker version 20.10.17, build 100c701
ubuntu@ip-172-31-81-230:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
d19f32bd9e41: Pull complete
Digest: sha256:34fea4f31bf187bc915536831fd0afc9d214755bf700b5cdb1336c82516d154e
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-31-81-230:~$ sudo docker pull mysql
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
Follow terminal folder
02:59 21-08-2022
```

```

ubuntu@ip-172-31-81-230: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ sudo docker -v
Docker version 20.10.17, build 100c701
ubuntu@ip-172-31-81-230:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
d19f32bd9e41: Pull complete
Digest: sha256:34fea4f31bf187bc915536831fd0afc9d214755bf700b5cdb1336c82516d154e
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-31-81-230:~$ sudo docker pull mysql
Using default tag: latest
latest: Pulling from library/mysql
32c1bf40abaa: Pull complete
3ac22f3a638d: Pull complete
b1e7273ed05e: Pull complete
20be45a0c6ab: Pull complete
410a229693ff: Pull complete
1ce71e3a9b88: Pull complete
c93c823af05b: Pull complete
c6752c4d09c7: Pull complete
d7f2cf3eefcb: Pull complete
916f32cb0394: Pull complete
0d62a5f9a14f: Pull complete
Digest: sha256:cce2ae3bd3e9f001435c4671cf073d1d5ae55d138b16927268474fc54ba09ed79
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest
ubuntu@ip-172-31-81-230:~$ sudo docker images

```

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20. Now Ubuntu & SQL images successfully pulled from Dockerhub as shown below

```

ubuntu@ip-172-31-81-230: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ sudo docker -v
Docker version 20.10.17, build 100c701
ubuntu@ip-172-31-81-230:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
d19f32bd9e41: Pull complete
Digest: sha256:34fea4f31bf187bc915536831fd0afc9d214755bf700b5cdb1336c82516d154e
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-31-81-230:~$ sudo docker pull mysql
Using default tag: latest
latest: Pulling from library/mysql
32c1bf40abaa: Pull complete
3ac22f3a638d: Pull complete
b1e7273ed05e: Pull complete
20be45a0c6ab: Pull complete
410a229693ff: Pull complete
1ce71e3a9b88: Pull complete
c93c823af05b: Pull complete
c6752c4d09c7: Pull complete
d7f2cf3eefcb: Pull complete
916f32cb0394: Pull complete
0d62a5f9a14f: Pull complete
Digest: sha256:cce2ae3bd3e9f001435c4671cf073d1d5ae55d138b16927268474fc54ba09ed79
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest
ubuntu@ip-172-31-81-230:~$ sudo docker images

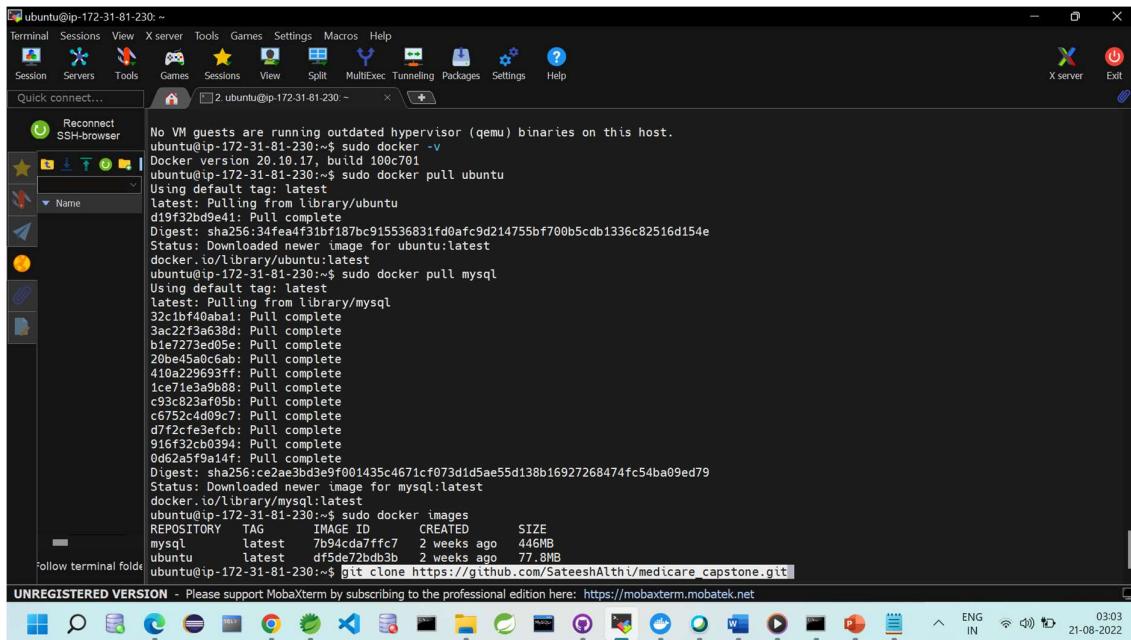
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
mysql	latest	7b94cd477fc7	2 weeks ago	446MB
ubuntu	latest	d5f5de72bdb3b	2 weeks ago	77.8MB

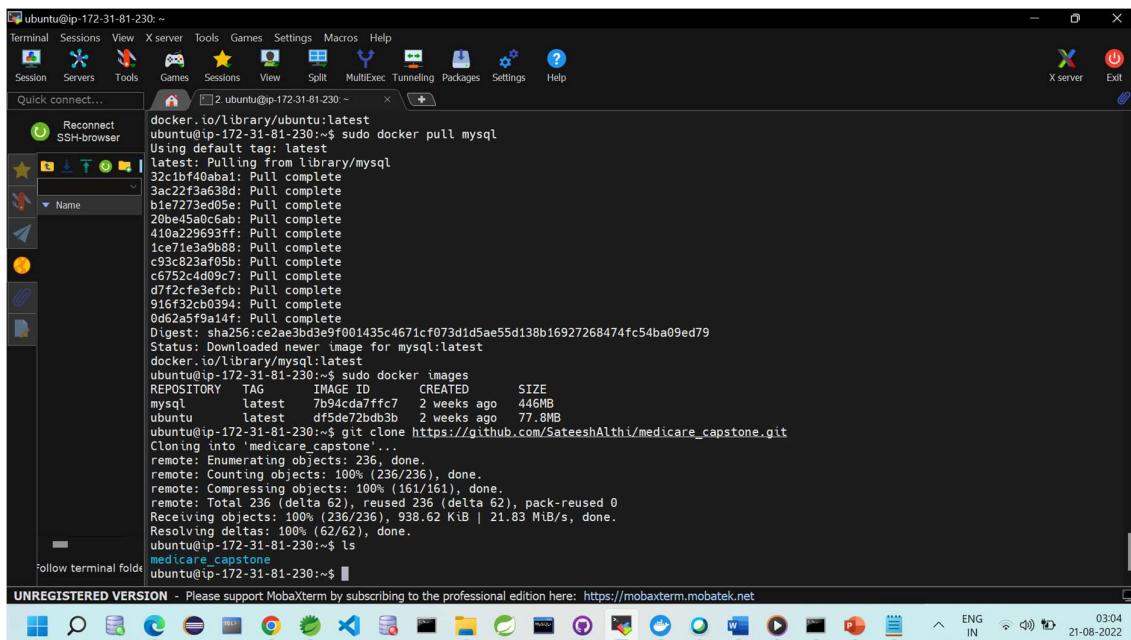
Follow terminal folder

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## 21. Building Docker Image



```
ubuntu@ip-172-31-81-230:~  
Terminal Sessions View Xserver Tools Games Settings Macros Help  
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help  
Quick connect...  
Reconnect SSH-browser  
Name  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
ubuntu@ip-172-31-81-230:~$ sudo docker -v  
Docker version 20.10.17, build 100c701  
ubuntu@ip-172-31-81-230:~$ sudo docker pull ubuntu  
Using default tag: latest  
latest: Pulling from library/ubuntu  
d19f32bd9e41: Pull complete  
Digest: sha256:34fea4f31bf187bc915536831fd0afc9d214755bf700b5cdb1336c82516d154e  
Status: Downloaded newer image for ubuntu:latest  
docker.io/library/ubuntu:latest  
ubuntu@ip-172-31-81-230:~$ sudo docker pull mysql  
Using default tag: latest  
latest: Pulling from library/mysql  
32c1bf40abaa: Pull complete  
3ac22f3a638d: Pull complete  
b1e273ed05e: Pull complete  
20be45a0c6ab: Pull complete  
410a229693ff: Pull complete  
1ce71e3a9b88: Pull complete  
c93c823af05b: Pull complete  
c6752c4d09c7: Pull complete  
d7f2cf3eefcb: Pull complete  
916f32cb0394: Pull complete  
0d62a5f9a14f: Pull complete  
Digest: sha256:cce2ae3bd3e9f001435c4671cf073d1d5ae55d138b16927268474fc54ba09ed79  
Status: Downloaded newer image for mysql:latest  
docker.io/library/mysql:latest  
ubuntu@ip-172-31-81-230:~$ sudo docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
mysql latest 7b94cd7ffc7 2 weeks ago 446MB  
ubuntu latest df5de72bdb3b 2 weeks ago 77.8MB  
ubuntu@ip-172-31-81-230:~$ git clone https://github.com/SateeshAlthi/medicare_capstone.git  
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net  
ENG IN 03:04 21-08-2022
```



```
ubuntu@ip-172-31-81-230:~  
Terminal Sessions View Xserver Tools Games Settings Macros Help  
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help  
Quick connect...  
Reconnect SSH-browser  
Name  
docker.io/library/ubuntu:latest  
ubuntu@ip-172-31-81-230:~$ sudo docker pull mysql  
Using default tag: latest  
latest: Pulling from library/mysql  
32c1bf40abaa: Pull complete  
3ac22f3a638d: Pull complete  
b1e273ed05e: Pull complete  
20be45a0c6ab: Pull complete  
410a229693ff: Pull complete  
1ce71e3a9b88: Pull complete  
c93c823af05b: Pull complete  
c6752c4d09c7: Pull complete  
d7f2cf3eefcb: Pull complete  
916f32cb0394: Pull complete  
0d62a5f9a14f: Pull complete  
Digest: sha256:cce2ae3bd3e9f001435c4671cf073d1d5ae55d138b16927268474fc54ba09ed79  
Status: Downloaded newer image for mysql:latest  
docker.io/library/mysql:latest  
ubuntu@ip-172-31-81-230:~$ sudo docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
mysql latest 7b94cd7ffc7 2 weeks ago 446MB  
ubuntu latest df5de72bdb3b 2 weeks ago 77.8MB  
ubuntu@ip-172-31-81-230:~$ git clone https://github.com/SateeshAlthi/medicare_capstone.git  
Cloning into 'medicare_capstone'...  
remote: Enumerating objects: 236, done.  
remote: Counting objects: 100% (236/236), done.  
remote: Compressing objects: 100% (161/161), done.  
remote: Total 236 (delta 62), reused 236 (delta 62), pack-reused 0  
Receiving objects: 100% (236/236), 938.62 KiB | 21.83 MiB/s, done.  
Resolving deltas: 100% (62/62), done.  
ubuntu@ip-172-31-81-230:~$ ls  
medicare_capstone  
ubuntu@ip-172-31-81-230:~$  
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net  
ENG IN 03:04 21-08-2022
```

```

ubuntu@ip-172-31-81-230: ~/medicare_capstone
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Reconnect SSH-browser
[2] 2 ubuntu@ip-172-31-81-230:~/medic... >
ubuntu@ip-172-31-81-230:~$ sudo docker pull mysql
Using default tag: latest
latest: Pulling from library/mysql
32c1bf49abaa: Pull complete
3ac22f3a638d: Pull complete
b1e273ed05e: Pull complete
20be45a0c6cab: Pull complete
410a229693ff: Pull complete
1ce71e3a9b88: Pull complete
c93c823af05b: Pull complete
c6752c4d09c7: Pull complete
d7f2fcfe3efch: Pull complete
916f32cb0394: Pull complete
0d62a5f9a14f: Pull complete
Digest: sha256:c2ae3bd3e9f001435c4671cf073d1d5ae55d138b16927268474fc54ba09ed79
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest
ubuntu@ip-172-31-81-230:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql latest 7b94cda7ffcc 2 weeks ago 446MB
ubuntu latest df5de72bdbb3 2 weeks ago 77.8MB
ubuntu@ip-172-31-81-230:~$ git clone https://github.com/SateeshAlthi/medicare_capstone.git
Cloning into 'medicare_capstone'...
remote: Enumerating objects: 236, done.
remote: Counting objects: 100% (236/236), done.
remote: Compressing objects: 100% (161/161), done.
remote: Total 236 (delta 62), reused 236 (delta 62), pack-reused 0
Receiving objects: 100% (236/236), 938.62 KiB | 21.83 MiB/s, done.
Resolving deltas: 100% (62/62), done.
ubuntu@ip-172-31-81-230:~$ ls
medicare_capstone
ubuntu@ip-172-31-81-230:~$ cd medicare_capstone
ubuntu@ip-172-31-81-230:~/medicare_capstone$ sudo docker build -t medicareimage .

```

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## 22. Installed Java & Maven on AWS EC2

```

ubuntu@ip-172-31-81-230: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
[2] 2 ubuntu@ip-172-31-81-230:~/medic... >
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jhsdb to provide /usr/bin/jhsdb (jhsdb) in auto mode
Setting up default-jre (2:1.11-72build2) ...
Setting up default-jdk-headless (2:1.11-72build2) ...
Setting up openjdk-11-jdk-amd64 (11.0.16+8~Ubuntu122.04) ...
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jconsole to provide /usr/bin/jconsole (jconsole) in auto mode
Setting up default-jdk (2:1.11-72build2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ Java --version
Command 'Java' not found, did you mean:
  command 'java' from deb openjdk-11-jre-headless (11.0.16+8~Ubuntu122.04)
  command 'java' from deb default-jre (2:1.11-72build2)
  command 'java' from deb openjdk-17-jre-headless (17.0.3+7~Ubuntu0.22.04.1)
  command 'java' from deb openjdk-18-jre-headless (18-36ea-1)
  command 'java' from deb openjdk-8-jre-headless (8u312-b07~Ubuntu1)
  command 'fava' from deb python3-fava (1.20.1-1)
  command 'cava' from deb cava (0.7.4-1)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-81-230:~$ java --version
openjdk 11.0.16 2022-07-19
OpenJDK Runtime Environment (build 11.0.16+8~post-Ubuntu-0Ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.16+8~post-Ubuntu-0Ubuntu122.04, mixed mode, sharing)
ubuntu@ip-172-31-81-230:~$ sudo apt install maven -y

```

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```

ubuntu@ip-172-31-81-230: ~
Setting up liblirisu-inject-java (0.3.4-2) ...
Setting up liblirisu-plexus-java (0.3.4-3) ...
Setting up libmaven-resolver-java (1.4.2-3build1) ...
Setting up libguava-java (29.0-6) ...
Setting up libcommons-lang3-java (3.11-1) ...
Setting up libjansi-native-java (1.8-1) ...
Setting up libwagon-file-java (3.3.4-1) ...
Setting up libcommons-io-java (2.11.0-2) ...
Setting up libguice-java (4.2.3-2) ...
Setting up libansi-java (1.18-1) ...
Setting up libmaven-shared-utils-java (3.3.0-1) ...
Setting up libmaven3-core-java (3.6.3-5) ...
Setting up maven (3.6.3-5) ...
update-alternatives: using /usr/share/maven/bin/mvn to provide /usr/bin/mvn (mvn) in auto mode
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ mvn -v
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 11.0.16, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "5.15.0-1011-aws", arch: "amd64", family: "unix"
ubuntu@ip-172-31-81-230:~$ 

```

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23.Jenkins successfully installed on AWS EC2 as below

```

ubuntu@ip-172-31-81-230: ~
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ mvn -v
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 11.0.16, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "5.15.0-1011-aws", arch: "amd64", family: "unix"
ubuntu@ip-172-31-81-230:~$ curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo tee /usr/share/keyrings/jenkins-keyring.asc > /dev/null
ubuntu@ip-172-31-81-230:~$ echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list > /dev/null
ubuntu@ip-172-31-81-230:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:5 https://download.docker.com/linux/ubuntu jammy InRelease
Ign:6 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:7 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:8 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:9 https://pkg.jenkins.io/debian-stable binary/ Packages [22.6 kB]
Fetched 25.5 kB in 1s (49.6 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-81-230:~$ sudo apt-get install jenkins

```

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The screenshot shows a MobaXterm window with multiple tabs open. The current tab displays Jenkins status:

```
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-230:~$ sudo service jenkins start
ubuntu@ip-172-31-81-230:~$ sudo service jenkins status
● jenkins.service - Jenkins Continuous Integration Server
  Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
  Active: active (running) since Sun 2022-08-21 02:39:44 UTC; 1min 19s ago
    Main PID: 9410 (java)
      Tasks: 35 (limit: 1146)
        Memory: 283.1M
          CPU: 41.853s
        CGroup: /system.slice/jenkins.service
                  └─ 9410 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Aug 21 02:39:13 ip-172-31-81-230 jenkins[9410]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Aug 21 02:39:13 ip-172-31-81-230 jenkins[9410]: ****
Aug 21 02:39:44 ip-172-31-81-230 jenkins[9410]: 2022-08-21 02:39:44.887+0000 [id=28] INFO jenkins.InitReactorRunner$1@OnAt
Aug 21 02:39:44 ip-172-31-81-230 jenkins[9410]: 2022-08-21 02:39:44.927+0000 [id=22] INFO hudson.lifecycle.Lifecycle$OnRea
Aug 21 02:39:44 ip-172-31-81-230 jenkins[9410]: 2022-08-21 02:39:45.120+0000 [id=43] INFO h.m.DownloadService$Downloadable
Aug 21 02:39:45 ip-172-31-81-230 jenkins[9410]: 2022-08-21 02:39:45.120+0000 [id=43] INFO hudson.util.Retrifier#start: Perfo
Aug 21 02:39:45 ip-172-31-81-230 jenkins[9410]: 2022-08-21 02:39:45.121+0000 [id=43] INFO hudson.model.AsyncPeriodicWork#1
```

The screenshot shows a MobaXterm terminal window with the following details:

- Terminal Bar:** Sessions, View, X server, Tools, Games, Settings, Macros, Help.
- Session List:** Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunneling, Packages, Settings, Help.
- Quick connect...:** 3.ubuntu@ip-172-31-81-230:~
- File Explorer:** Shows the directory structure of /home/ubuntu/. The .cache folder is highlighted.
- Terminal Content:**

```
endor preset: enabled)
n 19s ago

/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080
nd at: /var/lib/jenkins/secrets/initialAdminPassword
*****
887+0000 [id=28]     INFO  jenkins.InitReactorRunner$1#onAttained: Completed initialization
927+0000 [id=22]     INFO  hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
ous Integration Server.
120+0000 [id=43]     INFO  h.m.DownloadService$Downloadable#load: Obtained the updated data file for hudson.tasks.Maven.MavenIn
121+0000 [id=43]     INFO  hudson.util.Retriger#start: Performed the action check updates server successfully at the attempt #1
129+0000 [id=43]     INFO  hudson.model.AsyncPeriodicWork$lambda$doRun$1: Finished Download metadata. 32,789 ms
```
- Bottom Status:** Follow terminal fold, Lines 1-20/20 (END).
- Bottom Footer:** UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>
- Bottom Icons:** Windows, Search, File, Internet, Mail, Task Manager, etc.
- Bottom Right:** ENG IN, 21-08-2022.

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options like New EC2 Experience, EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (with sub-options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations), Images (AMIs, AMI Catalog), and Elastic Block Store. The main content area displays a table titled 'Instances (1/1)'. The table has columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. One row is selected, showing 'JenkinsInstance' with Instance ID 'i-053f3772890db24e2', State 'Running', Type 't2.micro', Status '2/2 checks passed', Alarm status 'No alarms', Availability Zone 'us-east-1c', and Public IPv4 DNS 'ec2-44-202-168-192.compute-1.amazonaws.com'. Below the table, there's a detailed view for the selected instance, showing its summary, security, networking, storage, status checks, monitoring, and tags. The public IPv4 address '44.202.168.192' is highlighted and copied to the clipboard.

The screenshot shows the Jenkins 'Unlock Jenkins' setup page. The title bar says 'Not secure | 44.202.168.192:8080/login?from=%2F'. The main content is a 'Getting Started' section with the heading 'Unlock Jenkins'. It explains that a password has been written to the log and provides the path '/var/lib/jenkins/secrets/initialAdminPassword'. It also asks the user to copy the password from either location and paste it below. There's a text input field labeled 'Administrator password' and a 'Continue' button at the bottom right. The background features a large Jenkins logo.

ubuntu@ip-172-31-81-230:~

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect... [ubuntu@ip-172-31-81-230](#)

/home/ubuntu/ | 21/08/2022 08:15:28 cd Keys

..  
cache  
ssh  
MC\_Backend\_C  
MC\_Capstone\_C  
medicare\_caps  
SL\_Medicare\_B  
SL\_Medicare\_C  
.bash\_history  
.bash\_logout  
.bashrc  
.profile  
.sudo\_as\_admin  
.xauthroot

21/08/2022 08:15:33 /drives/d/Keys ssh -i "JenkinsPipeline.pem" ubuntu@ec2-44-202-168-192.compute-1.amazonaws.com

Welcome to Ubuntu 22.04 LTS (GNU/Linux 5.15.0-1011-aws x86\_64)

\* Documentation: <https://help.ubuntu.com>  
\* Management: <https://landscape.canonical.com>  
\* Support: <https://ubuntu.com/advantage>

System information as of Sun Aug 21 02:46:03 UTC 2022

System load: 0.1328125 Processes: 115  
Usage of /: 14.7% of 28.90GB Users logged in: 1  
Memory usage: 61% IPv4 address for docker0: 172.17.0.1  
Swap usage: 0% IPv4 address for eth0: 172.31.81.230

\* Ubuntu Pro delivers the most comprehensive open source security and compliance features.

<https://ubuntu.com/aws/pro>

62 updates can be applied immediately.  
25 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable

Last login: Sun Aug 21 02:29:36 2022 from 49.207.217.226

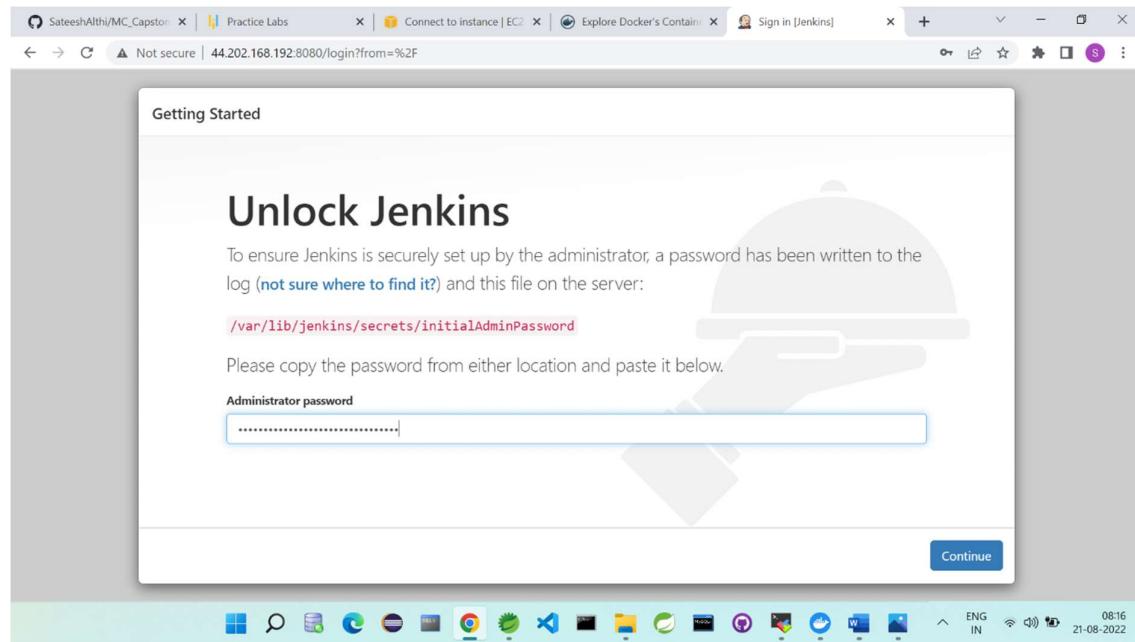
ubuntu@ip-172-31-81-230:~\$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword

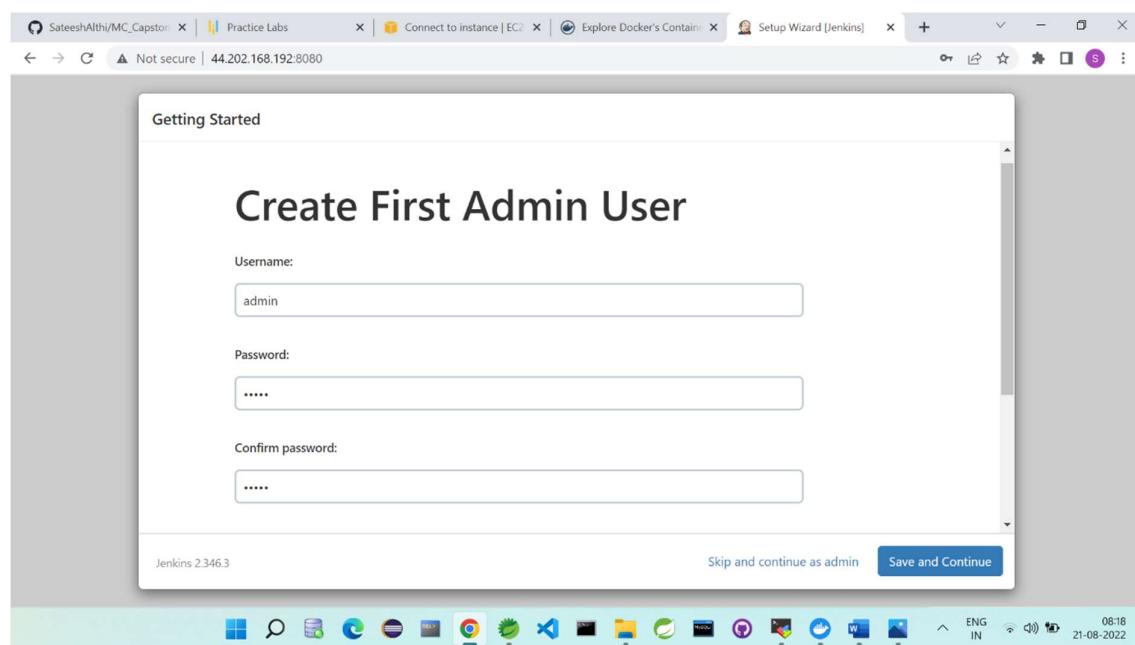
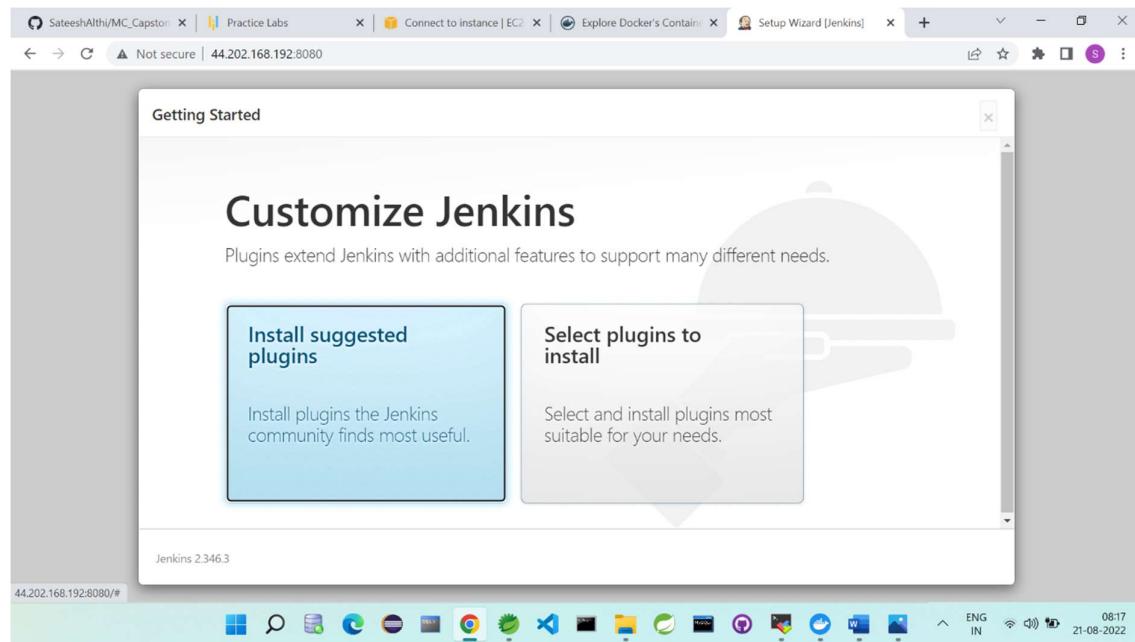
06801f0693234a508b5b26c5fa87765e8

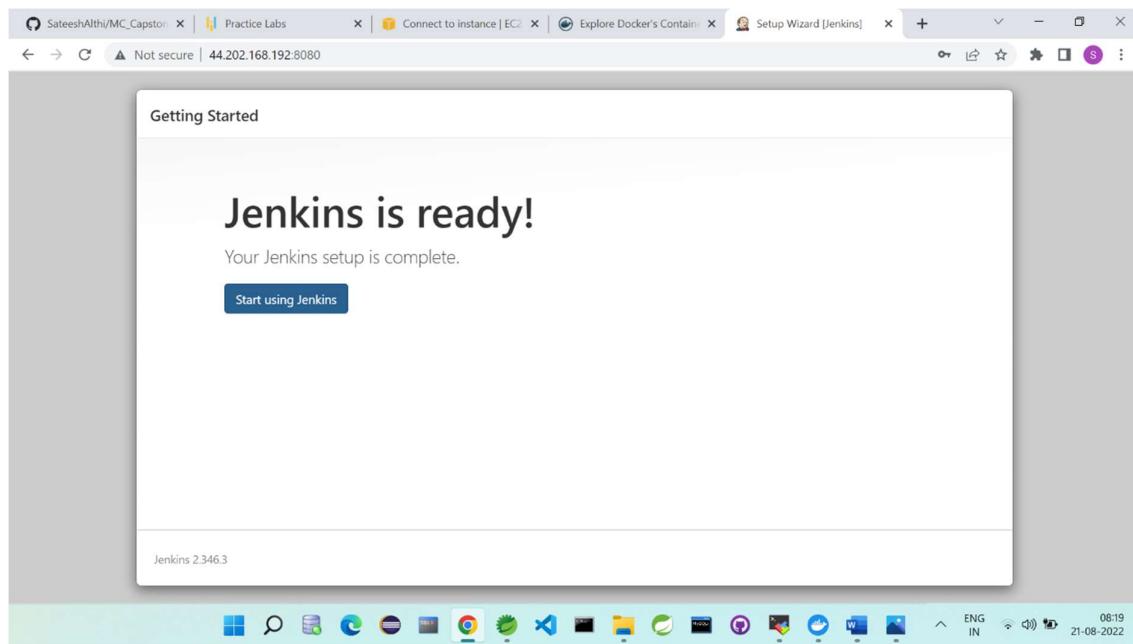
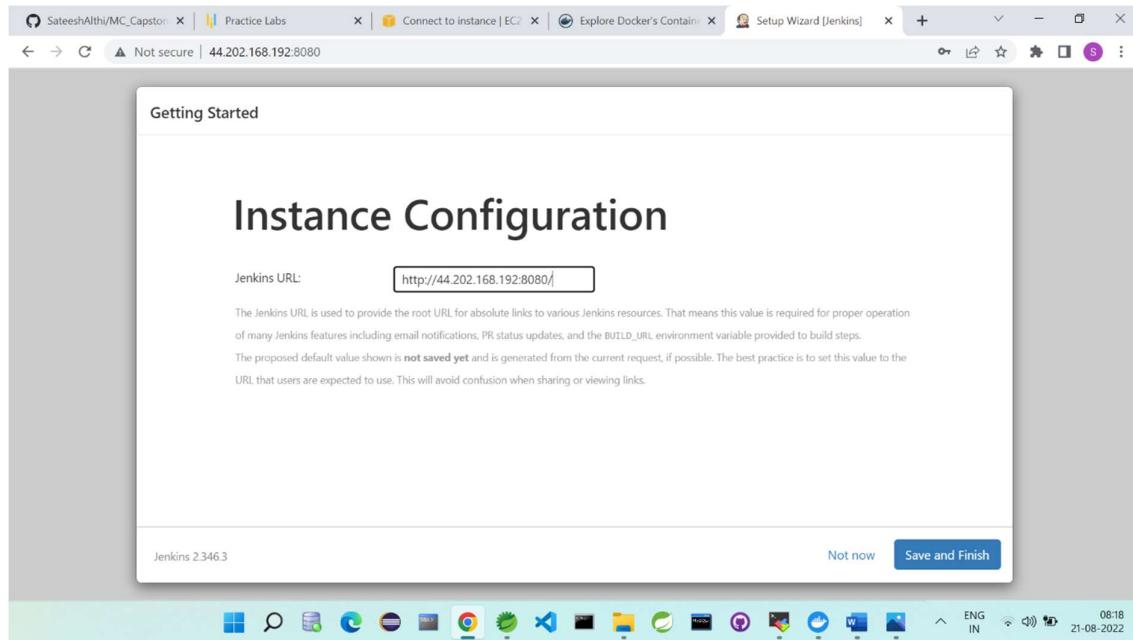
ubuntu@ip-172-31-81-230:~\$

UNREGISTERED VERSION - Please support MobaTerm by subscribing to the professional edition here: <https://mobatrm.mobatek.net>

ENG IN 08:15 21-08-2022







## 24.CICD Pipeline Job created

The screenshot shows the Jenkins dashboard at <http://44.202.168.192:8080>. The left sidebar has links for 'New Item', 'People', 'Build History', 'Manage Jenkins' (which is selected), 'My Views', and 'New View'. The main area displays the 'Welcome to Jenkins!' message and a 'Start building your software project' section with 'Create a job' and 'Set up a distributed build' buttons. Below these are 'Set up an agent' and 'Configure a cloud' buttons. The bottom status bar shows the URL and the date and time: 21-08-2022 08:20.

The screenshot shows the 'Manage Jenkins' page at <http://44.202.168.192:8080/manage>. The left sidebar includes 'New Item', 'People', 'Build History', 'Manage Jenkins' (selected), 'My Views', and 'New View'. A message box states: 'Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#)'. It features four buttons: 'Set up agent', 'Set up cloud', 'Dismiss', and a yellow 'Skip' button. The 'System Configuration' section contains three items: 'Configure System' (with a description of global settings), 'Global Tool Configuration' (with a description of tool installers), and 'Manage Plugins' (with a description of adding/removing/plugins). The bottom status bar shows the URL and the date and time: 21-08-2022 08:20.

The screenshot shows the Jenkins Plugin Manager interface. The title bar indicates the URL is [Not secure | 44.202.168.192:8080/pluginManager/available](http://44.202.168.192:8080/pluginManager/available). The main heading is "Plugin Manager". On the left, there are links for "Back to Dashboard", "Manage Jenkins", and "Update Center". The top navigation bar has tabs for "Updates", "Available" (which is selected), "Installed", and "Advanced". A search bar contains the text "Maven". Below the tabs, a message says "Install Name | Released". A plugin entry for "Maven Integration 3.19" under "Build Tools" is listed. It includes a note: "This plug-in provides a deep integration of Jenkins and Maven: Automatic triggers between projects depending on SNAPSHOTs, automated configuration of various Jenkins publishers (Junit, ...). This plugin is deprecated and it's recommended to avoid using it." Below the note are two buttons: "Install without restart" and "Download now and install after restart". A status message says "Update information obtained: 11 min ago". A "Check now" button is also present. The bottom of the screen shows a Windows taskbar with various icons and the date/time: 21-08-2022 08:21.

The screenshot shows the Jenkins Update Center interface. The title bar indicates the URL is [Not secure | 44.202.168.192:8080/updateCenter/](http://44.202.168.192:8080/updateCenter/). The main heading is "Installing Plugins/Upgrades". On the left, there are links for "Back to Dashboard", "Manage Jenkins", and "Manage Plugins". The right side shows a "Preparation" section with a bulleted list: "Checking internet connectivity", "Checking update center connectivity", and "Success". Below this, a table lists various plugins and their status: JavaBeans Activation Framework (JAF) API (Success), JavaMail API (Success), Folders (Success), Mina SSHD API :: Common (Success), Mina SSHD API :: Core (Success), SSH server (Success), OWASP Markup Formatter (Success), Structs (Success), Token Macro (Success), Build Timeout (Success), and Credentials (Success). The bottom of the screen shows a Windows taskbar with various icons and the date/time: 21-08-2022 08:21.

The screenshot shows the Jenkins dashboard at <http://44.202.168.192:8080>. The title bar indicates the connection is not secure. The dashboard features a sidebar with links like 'New Item', 'People', 'Build History', 'Manage Jenkins', 'My Views', and 'New View'. A central section displays the message 'Welcome to Jenkins!' with a sub-instruction 'This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.' Below this is a 'Start building your software project' section with a 'Create a job' button. The bottom of the screen shows a taskbar with various icons.

The screenshot shows the 'New Item' creation dialog in Jenkins. The title bar shows the URL as <http://44.202.168.192:8080/newJob>. The dialog has a header 'Enter an item name' with a required field input box containing 'JenkinsPipelineProject'. Below this are three project types: 'Freestyle project', 'Maven project', and 'Pipeline'. The 'Pipeline' section is currently active, showing its description: 'Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) involving complex activities that do not easily fit in free-style job type.' An 'OK' button is visible at the bottom of this section. The bottom of the screen shows a taskbar with various icons.

SateeshAlthi/MC\_Capstone | Practice Labs | Instances | EC2 Manager | Explore Docker's Container | JenkinsPipelineProject Configuration

Not secure | 44.202.168.192:8080/job/JenkinsPipelineProject/configure

Dashboard > JenkinsPipelineProject >

General Source Code Management Build Triggers Build Environment Build Post-build Actions

Source Code Management

None

Git

Repositories

Repository URL: https://github.com/SateeshAlthi/MC\_Capstone\_Project.git

Credentials: - none -

+ Add

Advanced...

Save Apply

Windows Taskbar: File Explorer, Task View, Taskbar Icons, System Tray (21-08-2022, 08:24)

SateeshAlthi/MC\_Capstone | Practice Labs | Instances | EC2 Manager | Explore Docker's Container | JenkinsPipelineProject Configuration

Not secure | 44.202.168.192:8080/job/JenkinsPipelineProject/configure

Dashboard > JenkinsPipelineProject >

General Source Code Management Build Triggers Build Environment Build Post-build Actions

Add Repository

Branches to build

Branch Specifier (blank for 'any'): \*/main

Add Branch

Repository browser: (Auto)

Save Apply

Windows Taskbar: File Explorer, Task View, Taskbar Icons, System Tray (21-08-2022, 08:24)

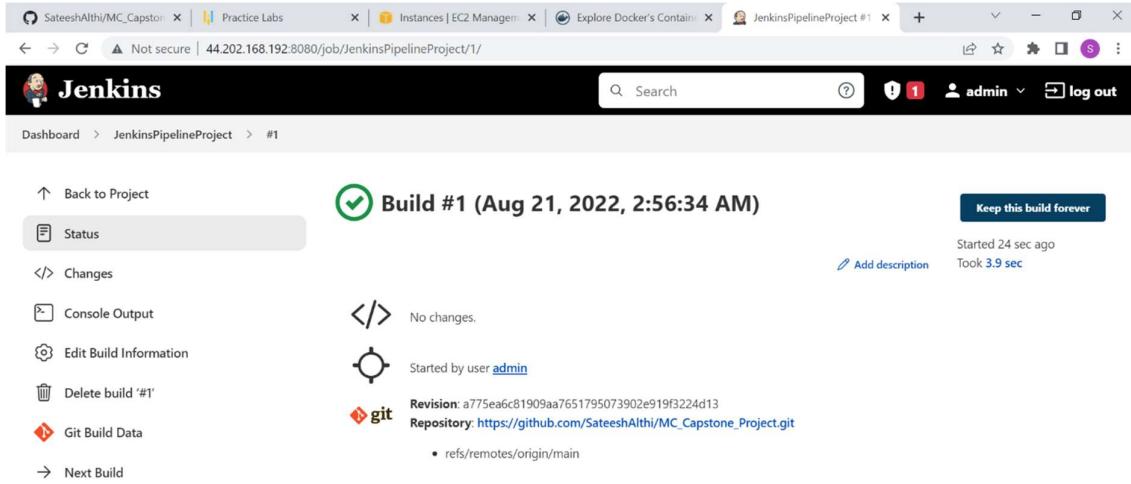
The screenshot shows the Jenkins Pipeline Project configuration page. The 'Build Triggers' tab is selected. Under 'Poll SCM', the schedule is set to 'H/2 \* \* \* \*'. A note indicates it would last have run at Sunday, August 21, 2022 at 2:54:12 AM Coordinated Universal Time, and would next run at Sunday, August 21, 2022 at 2:56:12 AM Coordinated Universal Time. There is also an option to 'Ignore post-commit hooks'.

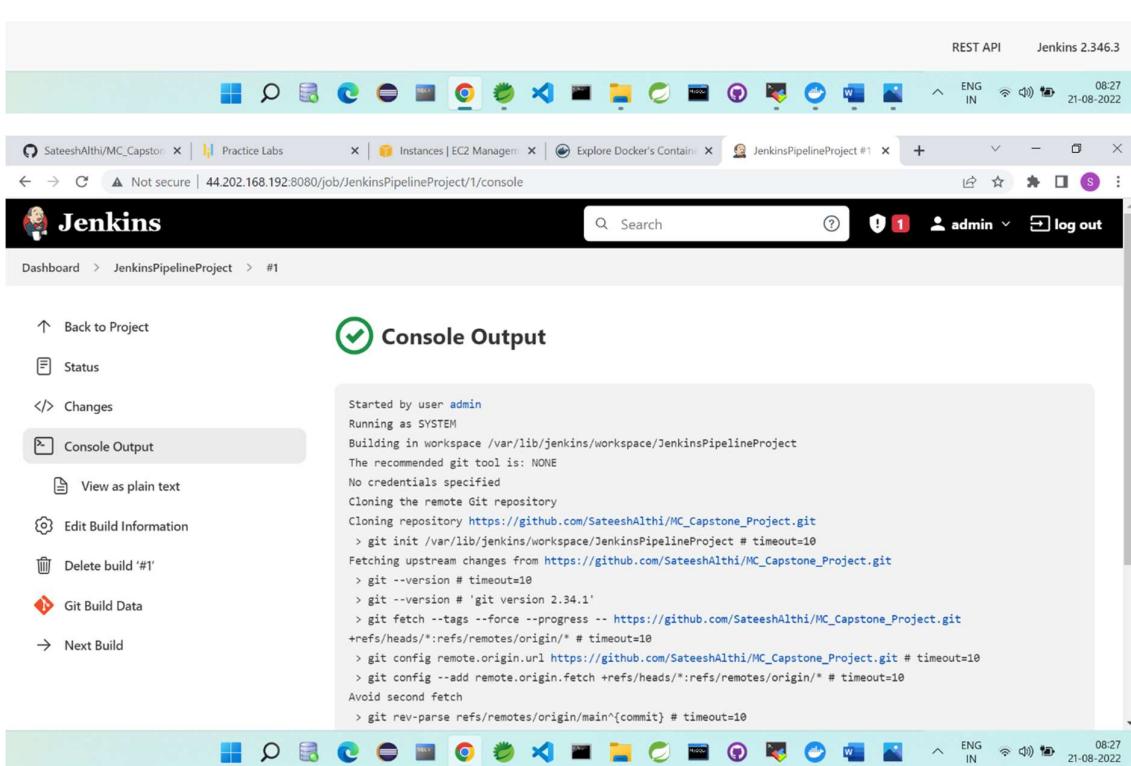
**Build Environment**

**Save** **Apply**

The screenshot shows the Jenkins Pipeline Project main page. The left sidebar includes links for Status, Changes, Workspace, Build Now, Configure, Delete Project, Git Polling Log, and Rename. The right side displays the project name 'Project JenkinsPipelineProject' and a 'Recent Changes' section. A 'Permalinks' section is also present. At the bottom, there is a 'Build History' section with a 'trend' dropdown set to 'trend'.

## 25. Build Success



The screenshot shows the Jenkins Pipeline Project #1 build success page. The main title is "Build #1 (Aug 21, 2022, 2:56:34 AM)" with a green checkmark icon. To the right, there is a "Keep this build forever" button, a timestamp "Started 24 sec ago", and a duration "Took 3.9 sec". On the left, there is a sidebar with links: "Back to Project", "Status" (which is selected), "Changes", "Console Output", "Edit Build Information", "Delete build '#1'", "Git Build Data", and "Next Build". Below the sidebar, it says "No changes." and "Started by user admin". It also shows the Git revision and repository information: "Revision: a775ea6c81909aa7651795073902e919f3224d13" and "Repository: https://github.com/SateeshAlthi/MC\_Capstone\_Project.git".  
  


The screenshot shows the Jenkins Pipeline Project #1 console output page. The main title is "Console Output" with a green checkmark icon. The sidebar is identical to the previous screenshot. The console output area displays the command-line logs of the build process, starting with "Started by user admin" and "Running as SYSTEM". It then shows the cloning of the git repository from GitHub, setting up remote tracking, and fetching upstream changes. The logs conclude with a note about avoiding a second fetch and a timeout of 10 seconds for the final git rev-parse command.

