

Project 2

Deploy Ask for a date app on Docker Container

Step 1 → Launch an Amazon EC2 instance: The first step is to create an Amazon EC2 instance on which you'll install Nginx. Go to the EC2 console, select Launch Instance, and choose ubuntu instance.

Step 2 → Configure security group: When configuring your security group, make sure that you allow inbound traffic on port 80, which is the default port used by HTTP.

Step 3 → let's connect to your ec2 instance

Step 4 → run the following commands

1. `sudo adduser username`
2. `sudo su`
3. `apt update`

Step 5. Git Installation

1. `apt install git`

-clone the github repo by

2. `git clone https://github.com/AdeshNavale98/Ask_For_Date_App/tree/main`

Step 6 → **Run the following commands to install nginx** →

1. `sudo apt install nginx`

Start Nginx: After installation, start the Nginx service

2. `sudo systemctl start nginx`

You can also enable Nginx to start on boot

3. `sudo systemctl enable nginx`

Check Nginx Status → To verify that Nginx is running without any errors, you can use

4. `sudo systemctl status nginx`

Step 7. Docker Installation

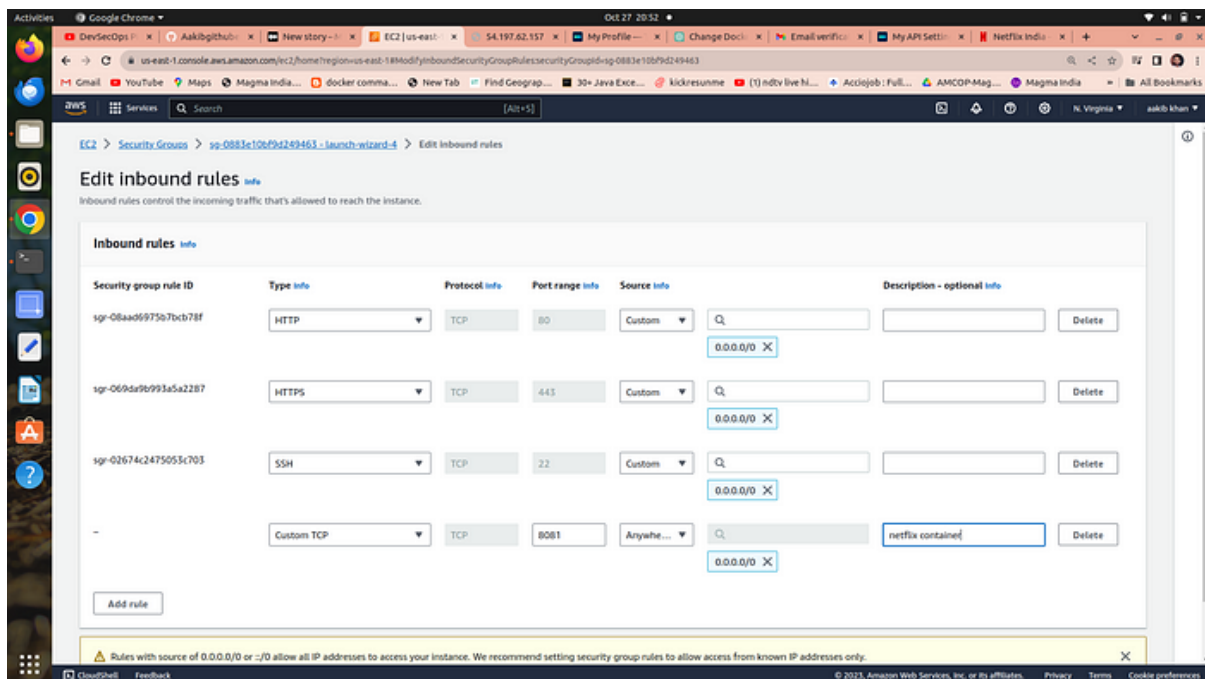
1. **apt-get install docker.io**
2. **usermod -aG docker \$USER** # Replace with your username e.g 'ubuntu'
3. **newgrp docker**
4. **sudo chmod 777 /var/run/docker.sock** → #is used to grant full read, write, and execute permissions to all users for the Docker socket file, which allows unrestricted access to the Docker daemon and is a significant security risk.

Step 8. Run the following commands to build and run docker container →

1. To Build the Docker Image
-docker build -t my-dating-app.
2. Below command is Run and maps the container port to your ec2 port
-docker run -d --name netflix -p 8081:80 my-dating-app:latest →

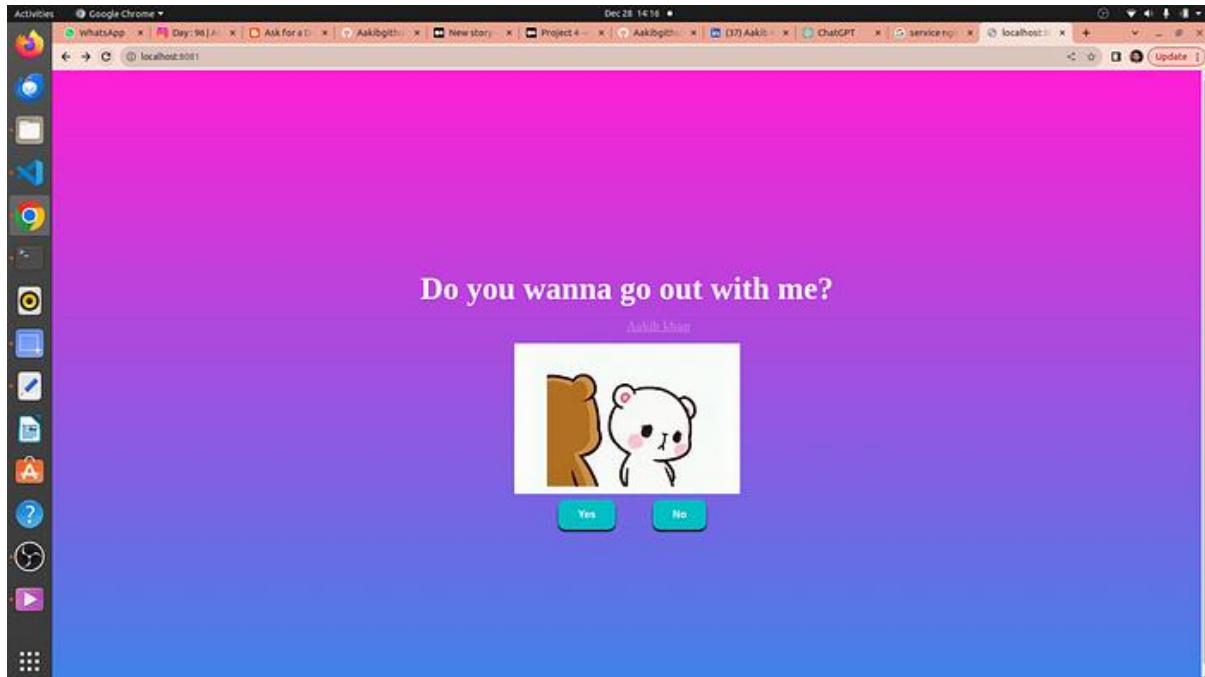
Step 9. Go to your ec2 →Security Group → Add Inbound Rule

Add Inbound Rule- custom TCP = 8081

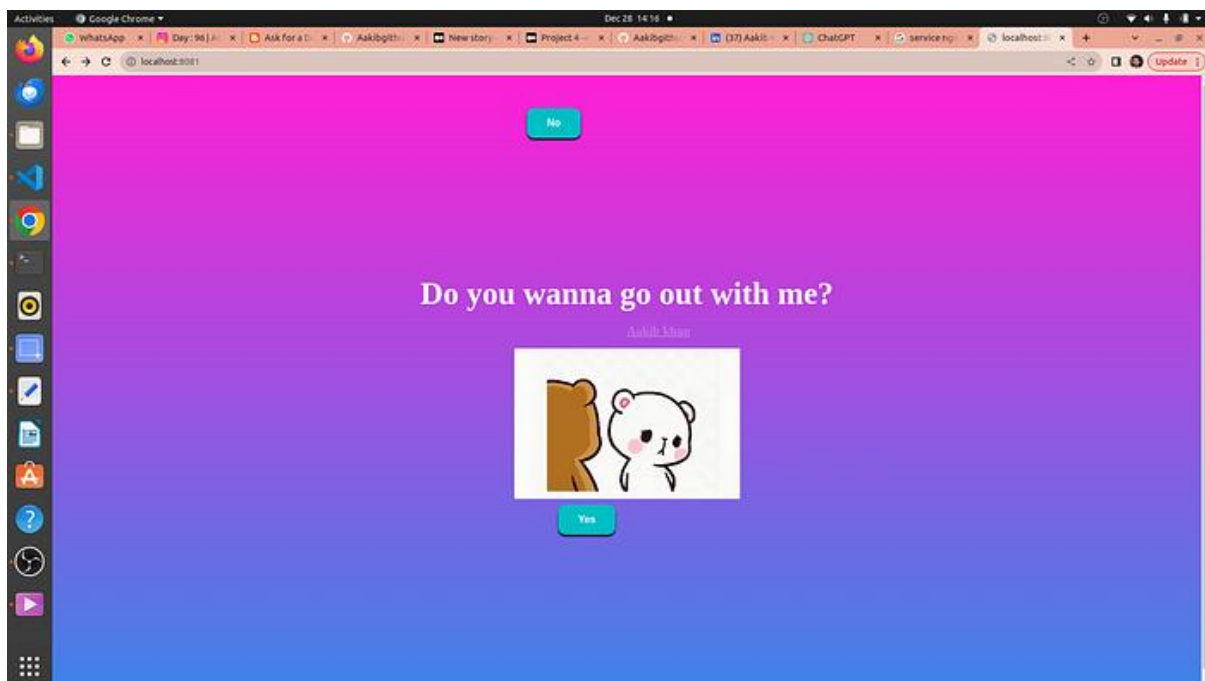


Step 10. Open browser and Run Application

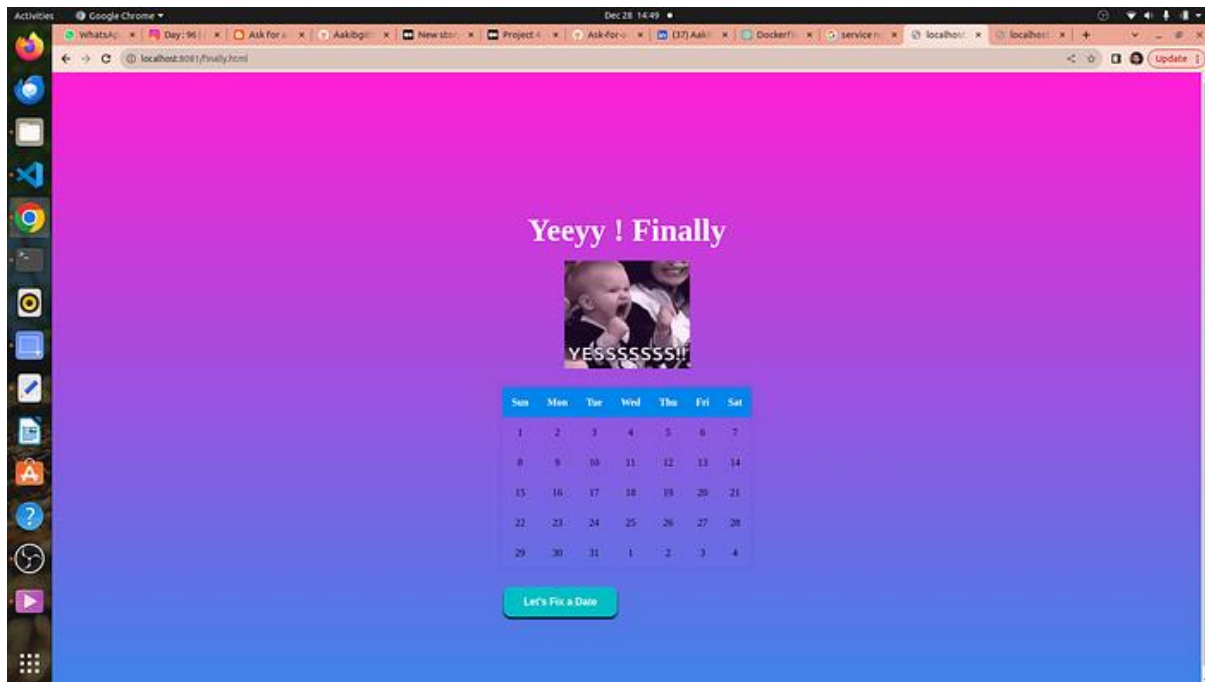
http://your_public_ip:8081



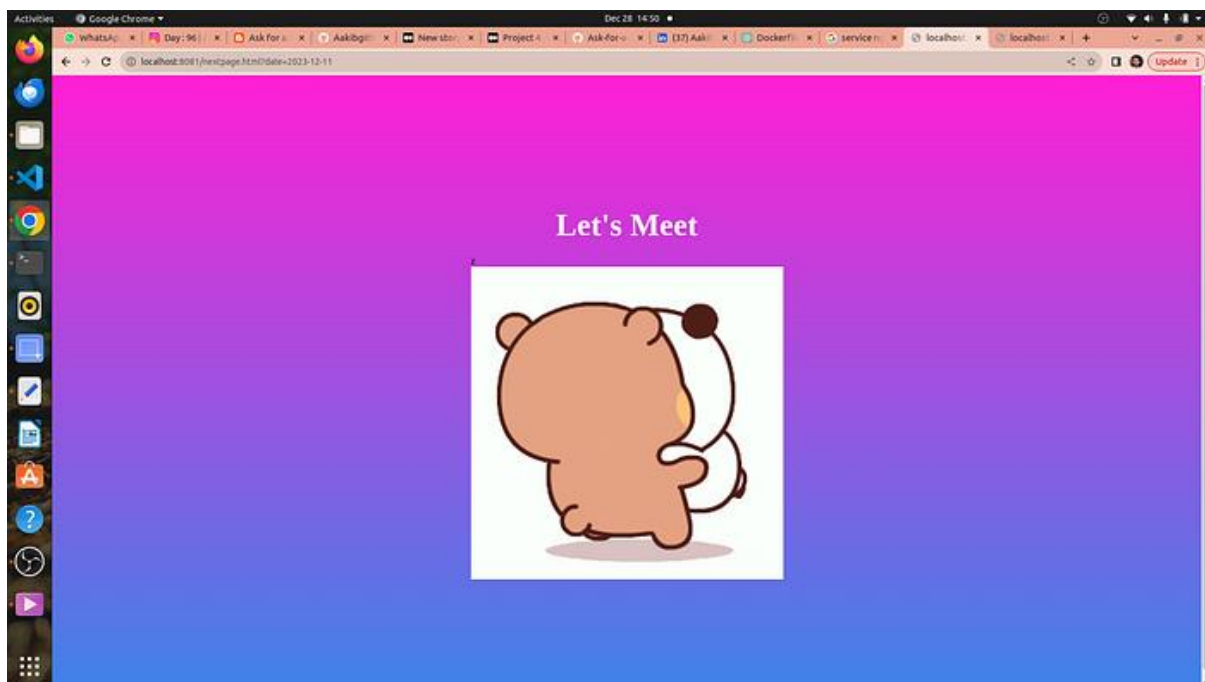
if you click on no it will run away



If you click on yes it will redirect you to next page



then choose a date



See you on a Date

This is a simple website if you wanna make it highly available then you could integrate grafana and prometheus for monitoring and use EKS for high Availability you could checkout the project