Deploy a Full Stack Java Application With Docker

Steps to do This project

1. Prerequisites

Ensure you have the following installed:
Java Development Kit (JDK)
Docker and Docker Compose
Git (optional, for version control)

2. Application Structure

Your full stack application should typically have:
Backend: Java application using Spring Boot or similar framework.
Frontend: JavaScript framework like React, Angular, or Vue.js.
Database: MySQL, PostgreSQL, or any other database of choice.

3. Dockerize Backend

Create a Dockerfile for your backend. Here's an example for a Spring Boot application

4. Dockerize Frontend

Create a Dockerfile for your frontend application.

5. Docker Compose

Use Docker Compose to manage multi-container applications. Create a docker-compose.yml file:

6. Build and Run

Navigate to the directory containing the docker-compose.yml file and run

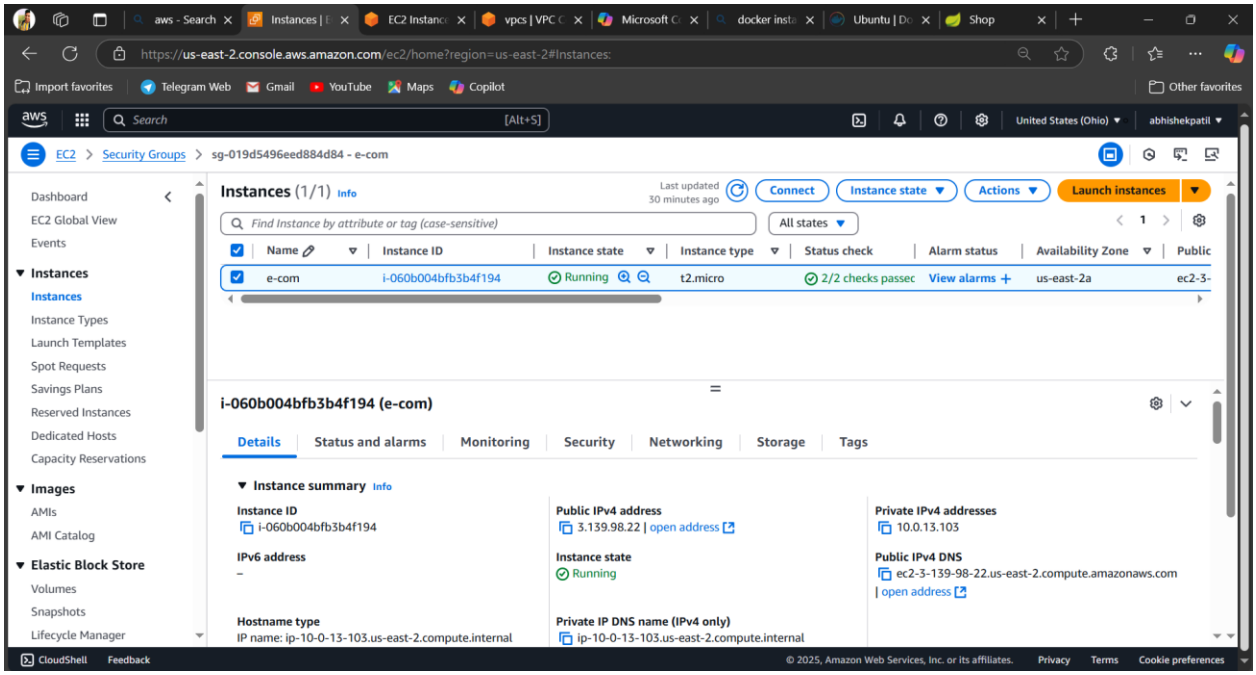
7. Access the Application

Backend: http://localhost:8070

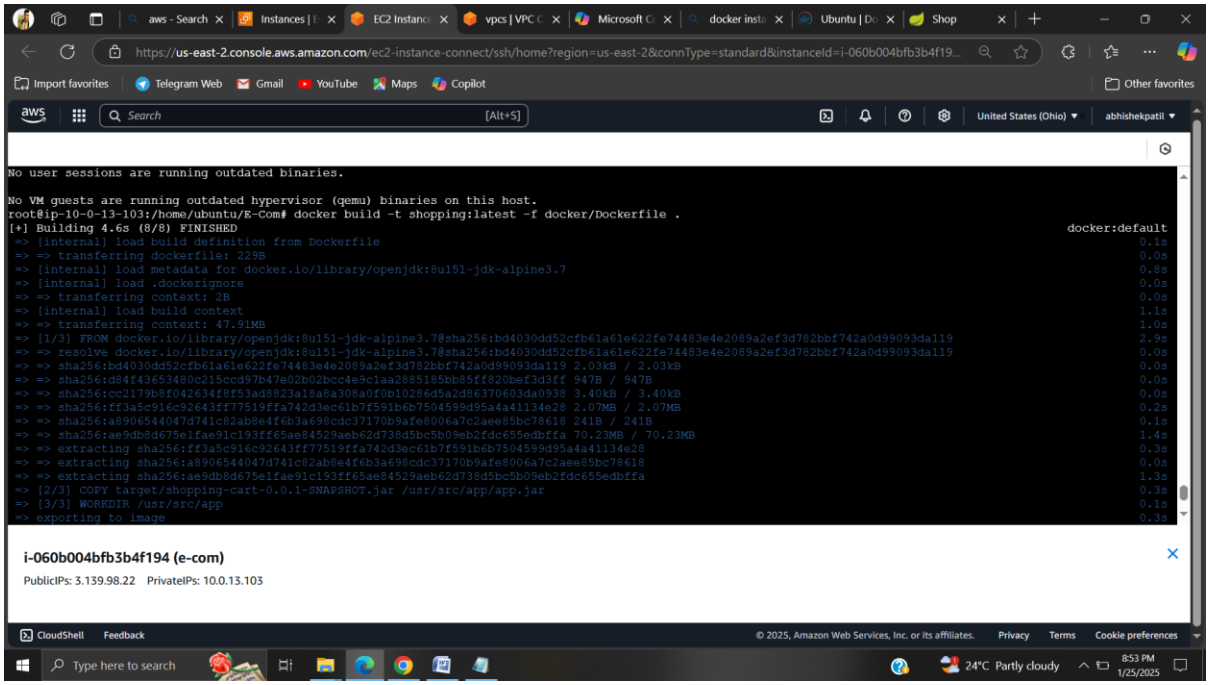
8. Managing Containers

To stop the containers: docker-compose down
To start the containers: docker-compose up
To view logs: docker-compose logs –f

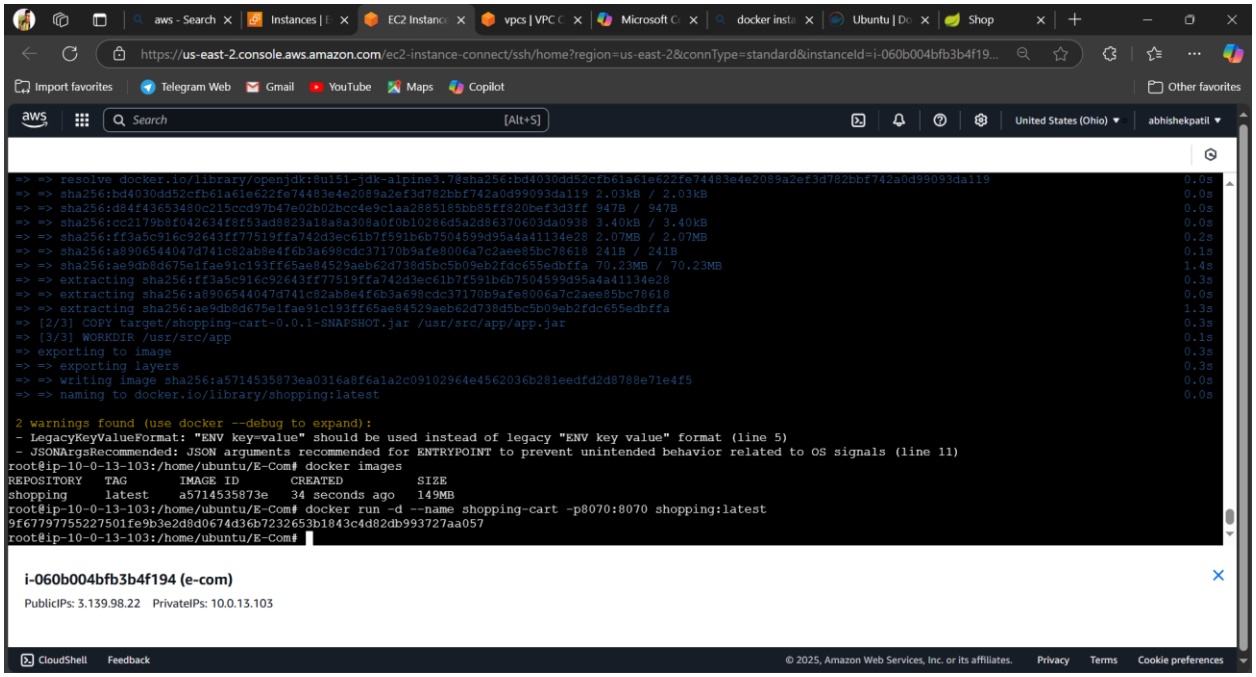
- Create an EC2 instance with Name, Ami, keyPair, Network Settings



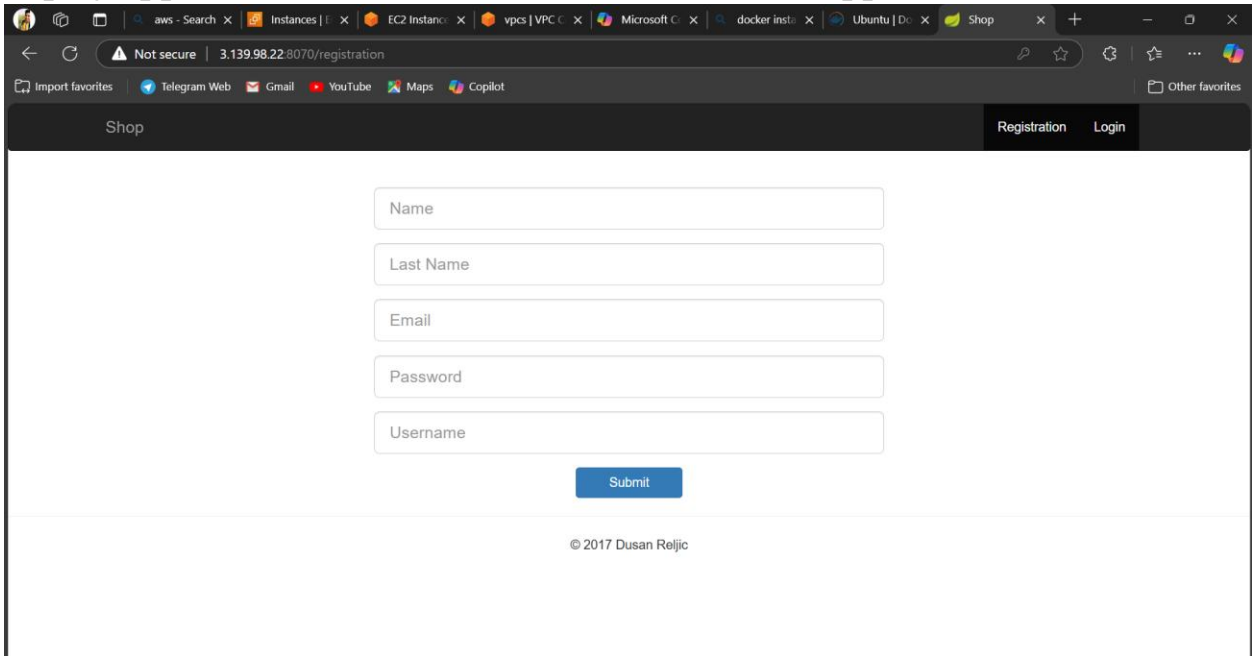
- Connect with SSH Client
- Install openjdk-11-jre -y
- Install maven -y
- Docker Installation
- https://docs.docker.com/engine/install/ubuntu/
- Repo https://github.com/AbhishekPatil06/E-Com.git

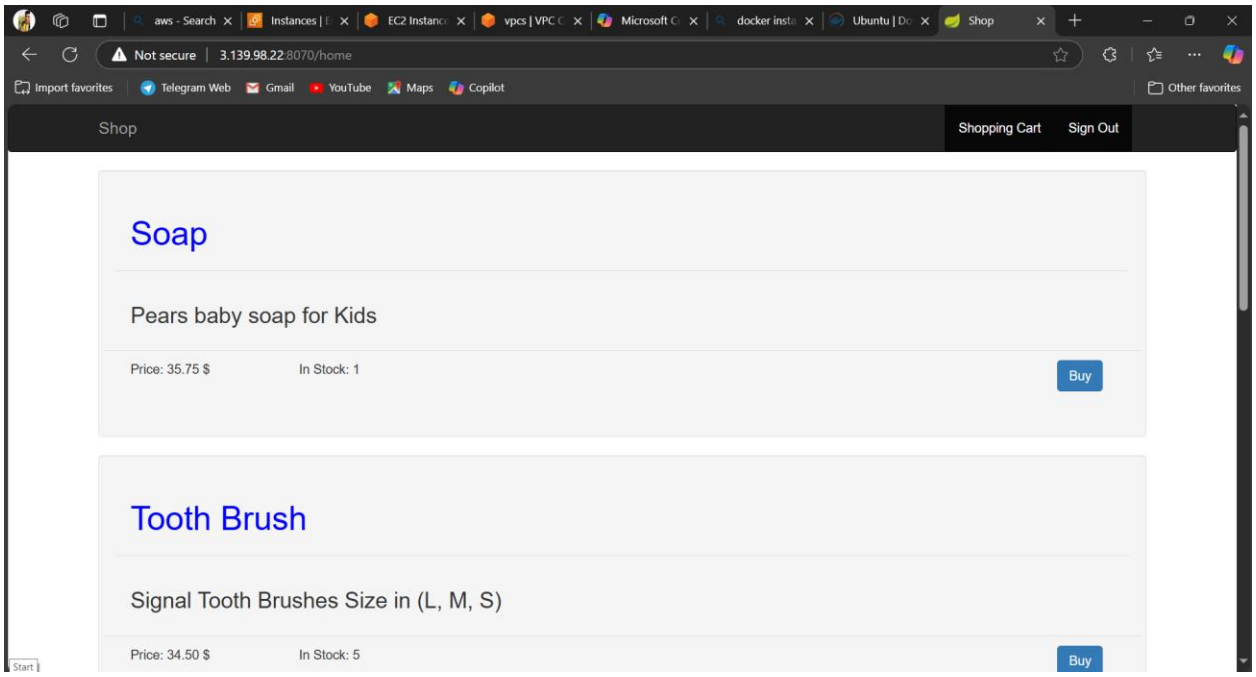


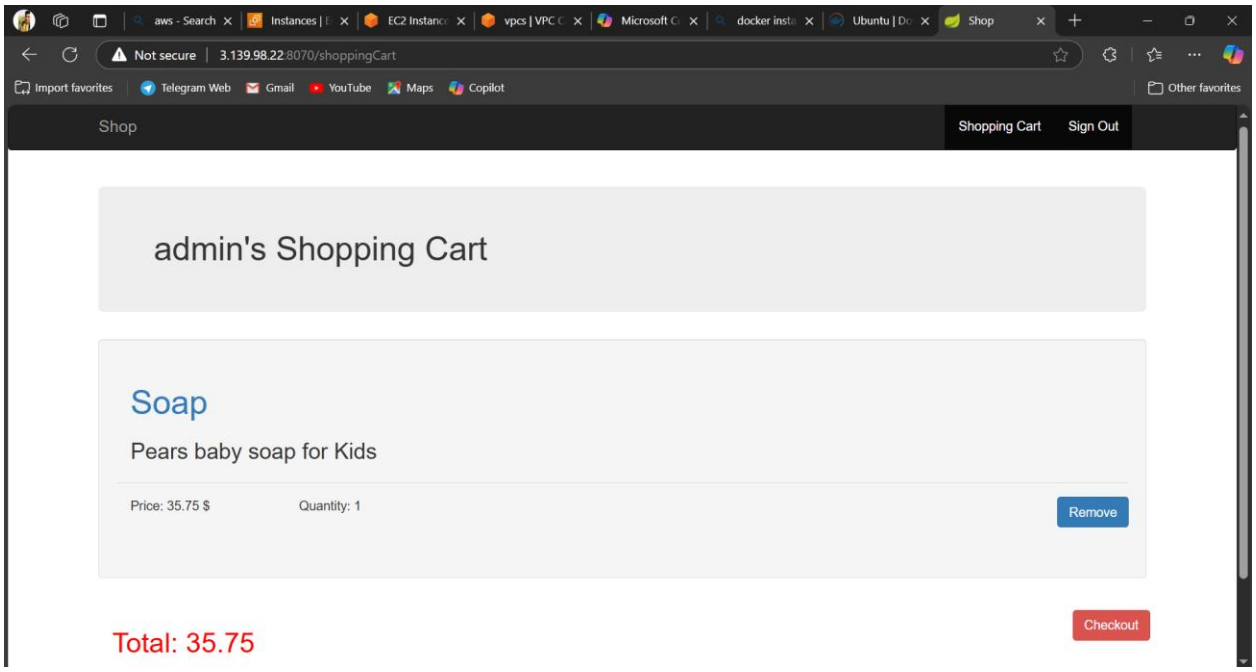
After Installation JDK, Maven, Docker & Package Installation , Docker Build Of Shopping Cart

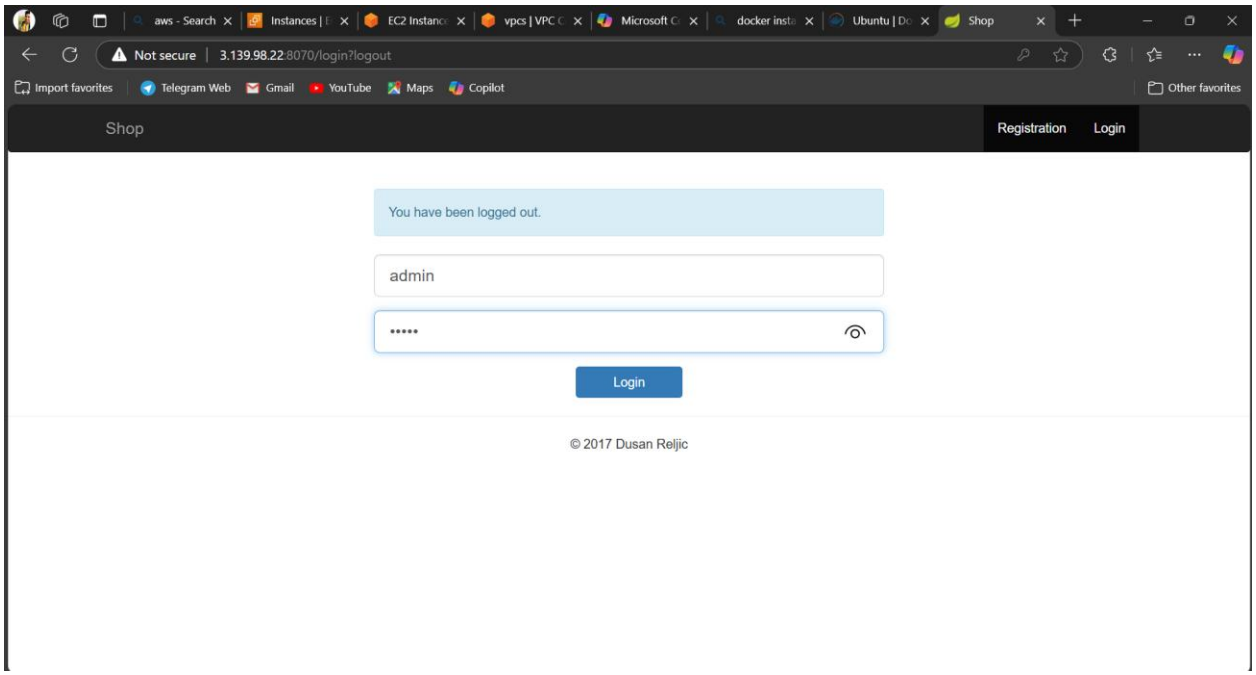


Deploy application in a docker container access the application




Not secure | 3.139.98.22:8070/home
Shop
Shopping Cart
Sign Out
Soap
Pears baby soap for Kids
Price: 35.75 $
In Stock: 1
Buy
Tooth Brush
Signal Tooth Brushes Size in (L, M, S)
Price: 34.50 $
In Stock: 5
Buy


Not secure | 3.139.98.22:8070/shoppingCart
Shop
Shopping Cart
Sign Out
admin's Shopping Cart
Soap
Pears baby soap for Kids
Price: 35.75 $
Quantity: 1
Remove
Checkout
Total: 35.75


aws - Search
Instances | E
EC2 Instanc
vpcs | VPC C
Microsoft C
docker inst
Ubuntu | Do
Shop
Not secure
3.139.98.22:8070/login?logout
Import favorites
Telegram Web
Gmail
YouTube
Maps
Copilot
Other favorites
Shop
Registration
Login
You have been logged out.
admin
•••••
Login
© 2017 Dusan Reljic