Project Documentation

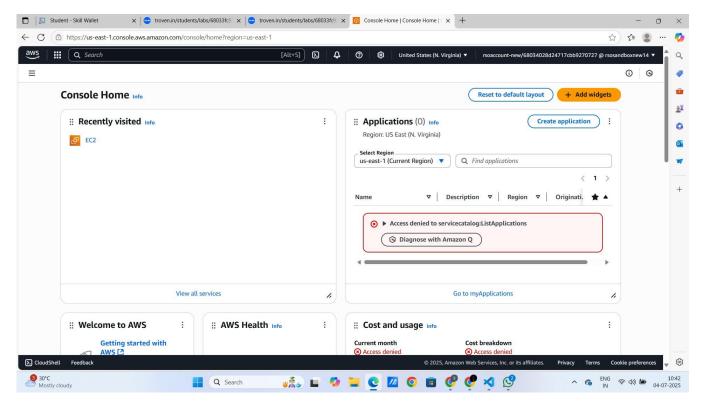
Title: MedTrack - Cloud-Enabled Healthcare Management System

Description: A web-based system built with Flask, hosted on AWS EC2, utilizing

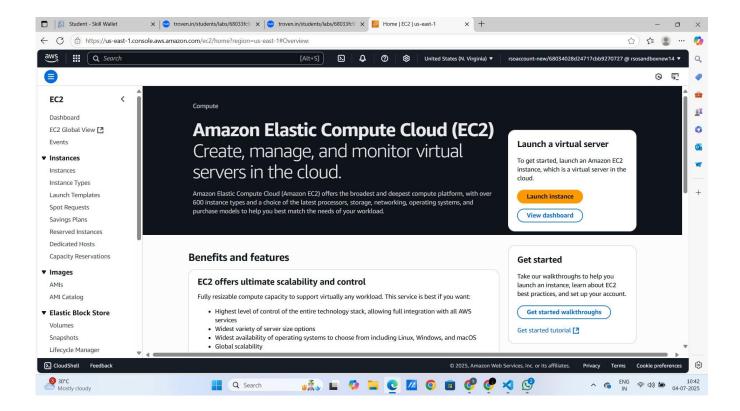
DynamoDB for backend storage and AWS SNS for real-time notifications.

Features include:

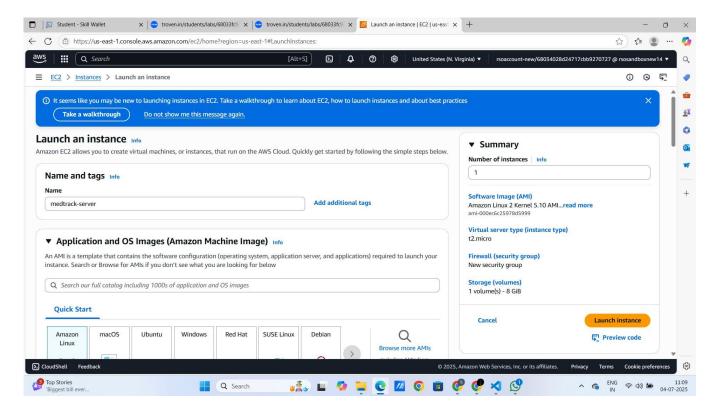
- User authentication and role-based access
- Appointment booking
- Diagnosis management by doctors
- DynamoDB integration for scalability
- EC2 instance deployment for hosting



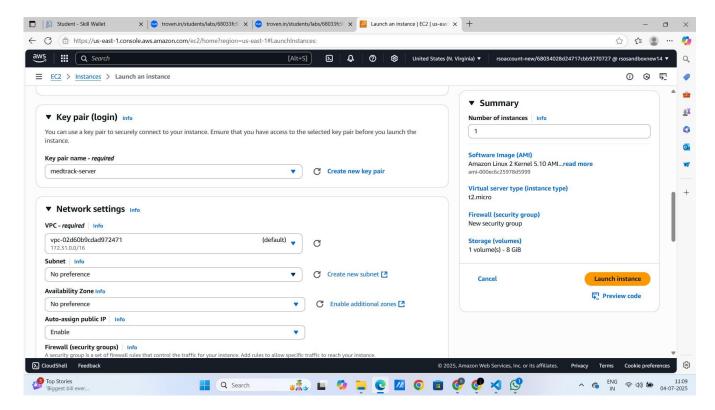
This screenshot shows the home page of aws console



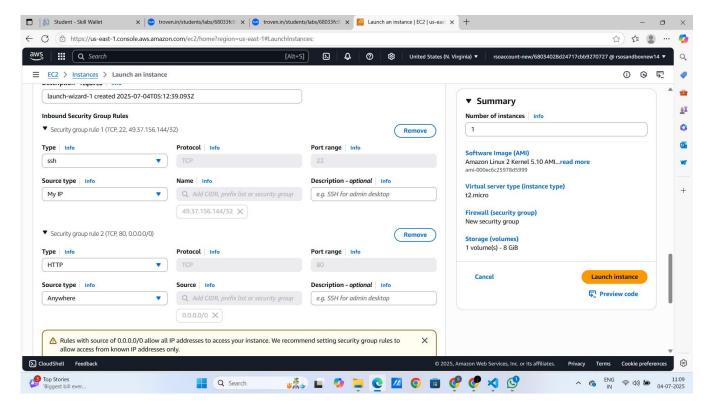
This screenshot shows the home pages of EC2.



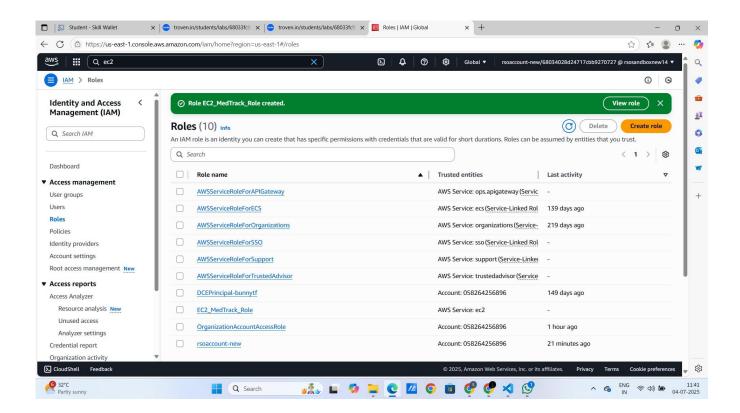
This screenshot shows Launching an instance



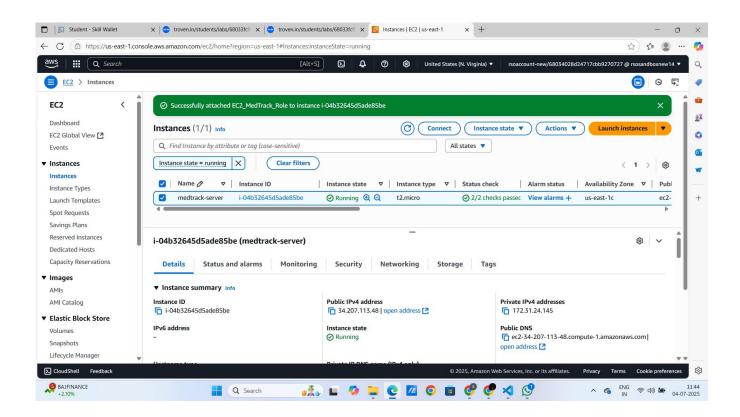
This screenshot shows the key pair, network settings in ec2 instance



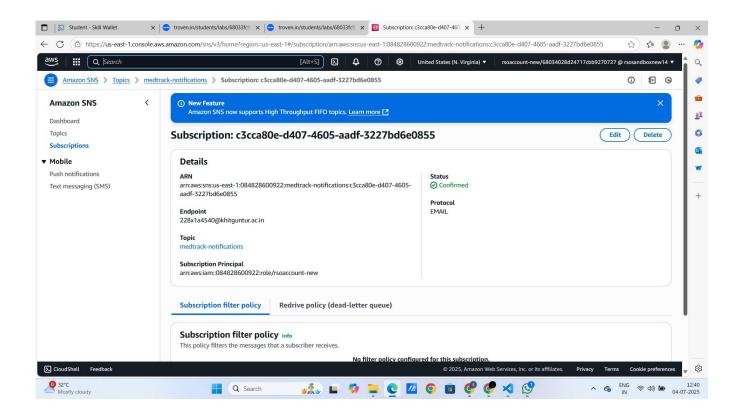
This screenshot shows the inbound security group rules in ec2 instance



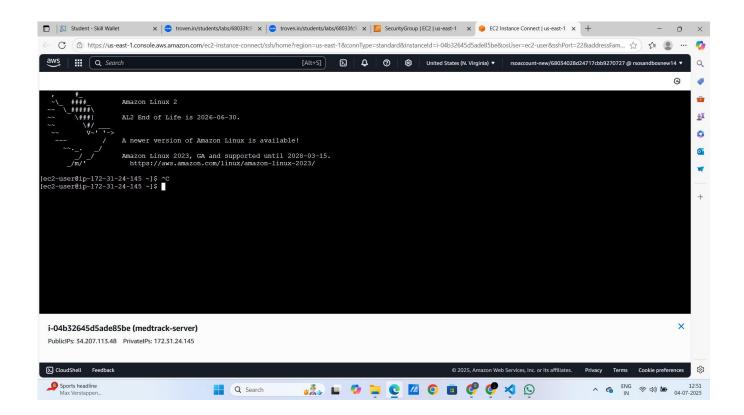
This screenshot show IAM roles created



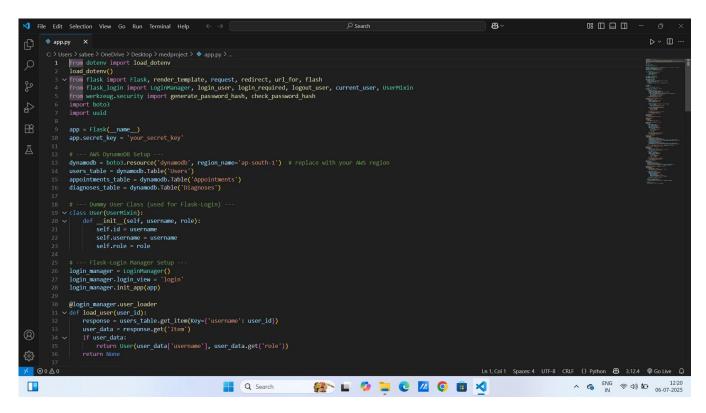
This screenshot shows the status of instance



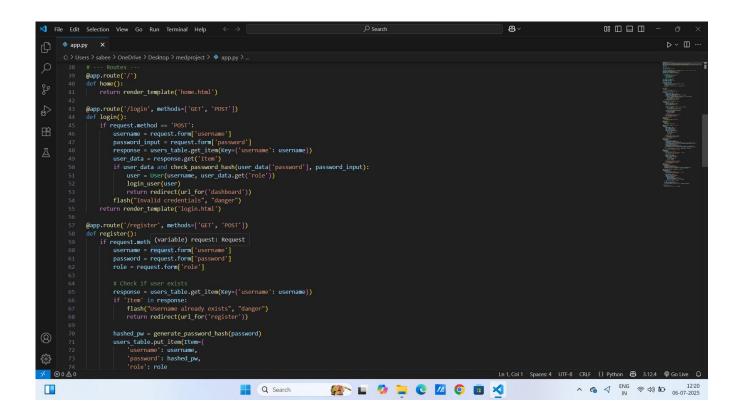
This screenshot shows the Amazon SNS



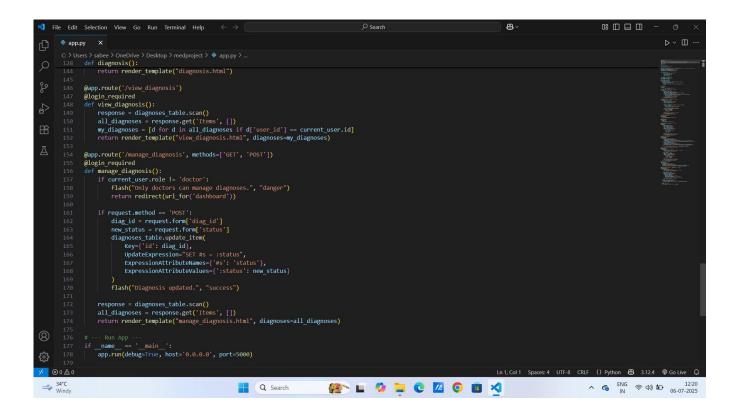
This screenshot shows the amazon Linux 2 is available



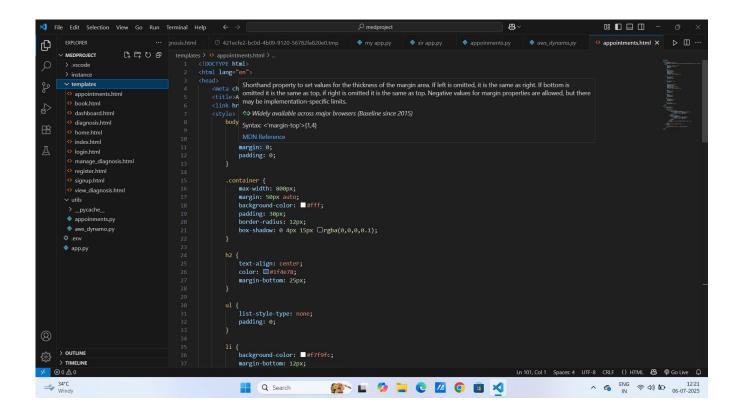
This screenshot the code used for app.py



This screenshot shows the continuous code of app.py



This screenshot shows the app.py code ends



This screenshot shows the templates used in project

Conclusion

This project, MedTrack, showcases the integration of cloud technologies in healthcare systems. By leveraging AWS services like EC2 and DynamoDB, it ensures scalability, reliability, and performance. The use of Flask makes the backend lightweight and efficient, while AWS SNS enhances the user experience through real-time communication. This system is a step forward in modern healthcare management solutions.