

# Monolithic Deployment

The screenshot shows a web browser window with the title 'CloudEval Shopping'. The address bar shows 'Not secure | ec2-54-208-228-118.compute-1.amazonaws.com/login'. The page has a green header with 'CloudEval Shopping' and a shopping cart icon, and a 'Login' link. The main content area is a dark gray rectangle containing a login form. The form has two input fields: 'Email address' with a placeholder 'Enter email' and 'Password' with a placeholder 'Password'. Below the fields are two buttons: 'Login' and 'Signup'. The Windows taskbar is visible at the bottom with the time '12:49 AM 12/10/2023'.

CloudEval Shopping

Login

Email address

Enter email

Password

Password

Login Signup

Login Page of monolithic deployment

The screenshot shows a web browser window with the title 'CloudEval Shopping'. The address bar shows 'Not secure | ec2-54-208-228-118.compute-1.amazonaws.com/login'. The page has a green header with 'CloudEval Shopping' and a shopping cart icon, and a 'Login' link. The main content area is a dark gray rectangle containing a signup form. The form has four input fields: 'Email address' with a placeholder 'Enter email', 'Password' with a placeholder 'Password', 'Email address' with a placeholder 'Enter email', and 'Enter phone number'. Below the fields are two buttons: 'Register' and 'Login'. The Windows taskbar is visible at the bottom with the time '12:49 AM 12/10/2023'.

CloudEval Shopping

Login

Email address

Enter email

Password

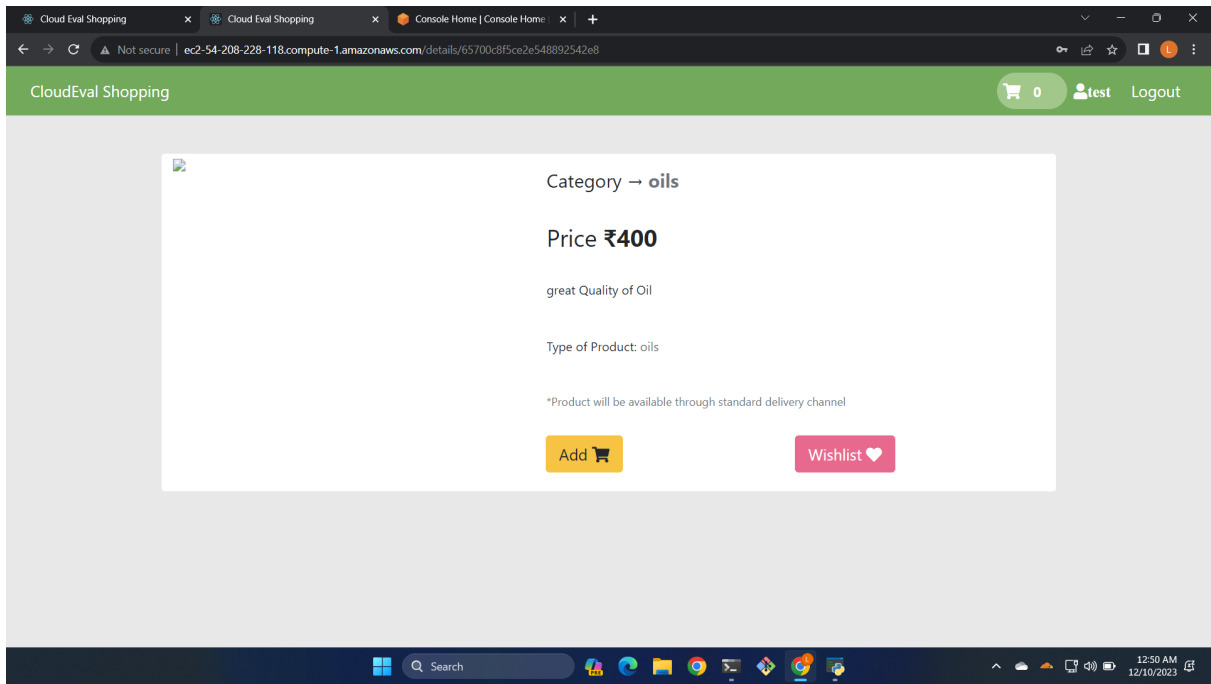
Password

Email address

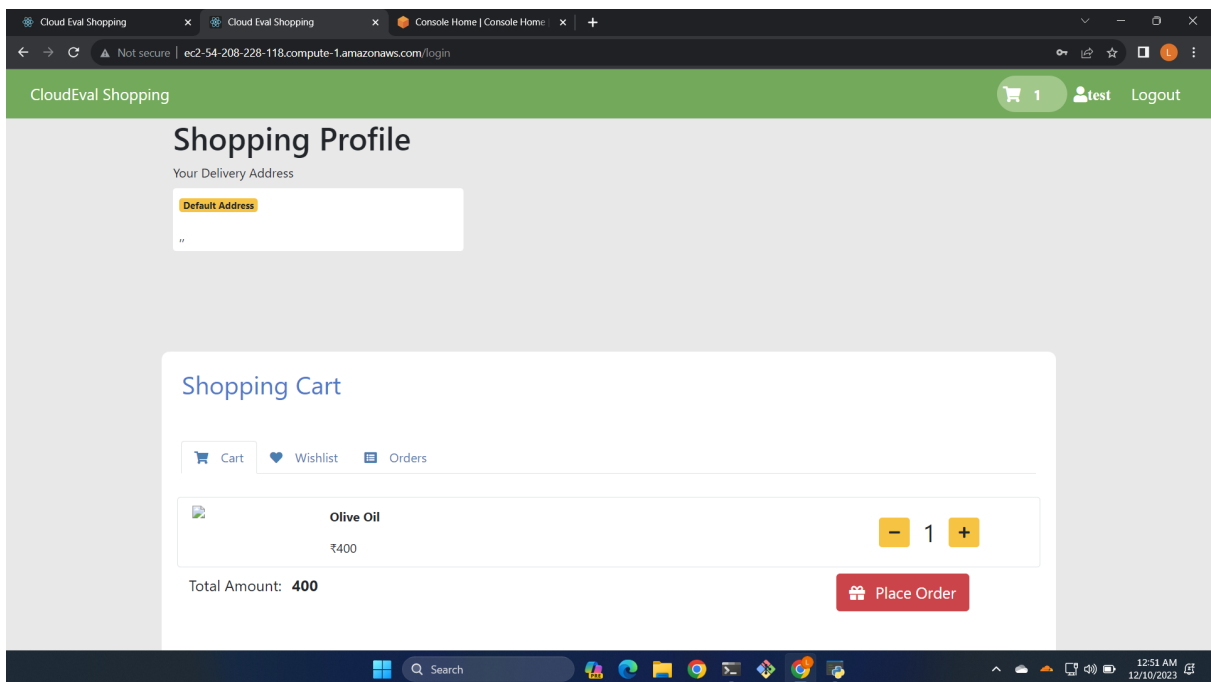
Enter phone number

Register Login

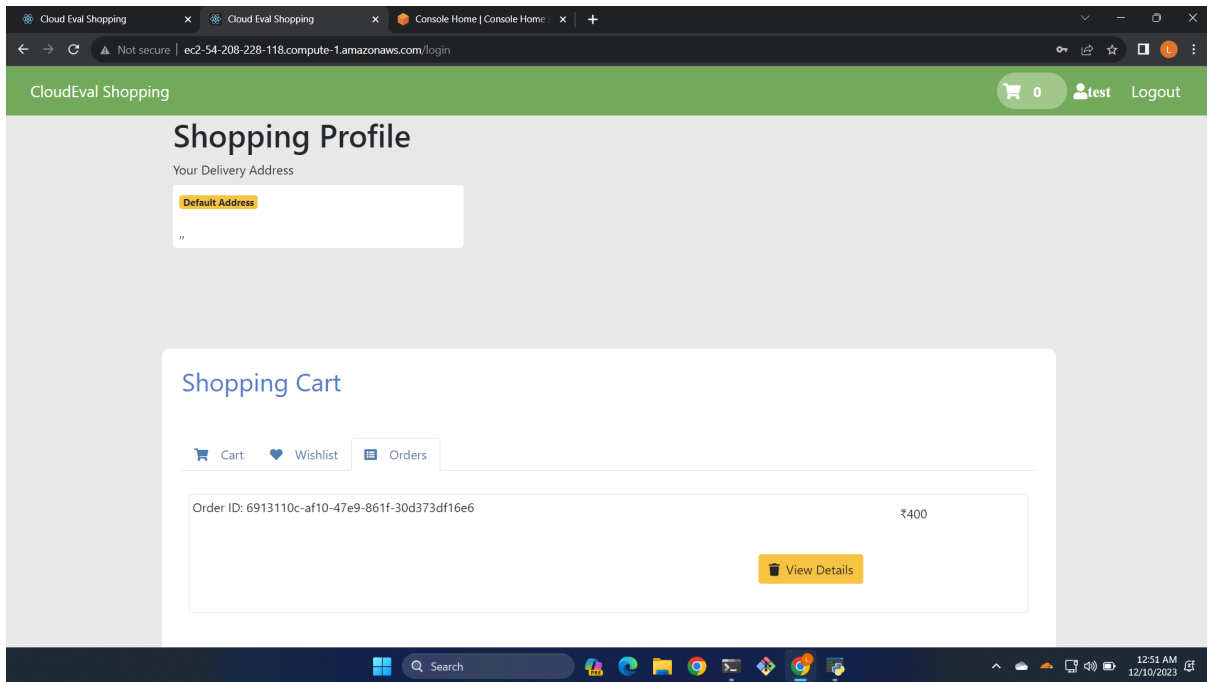
Signup page of monolithic deployment



Product page of monolithic deployment

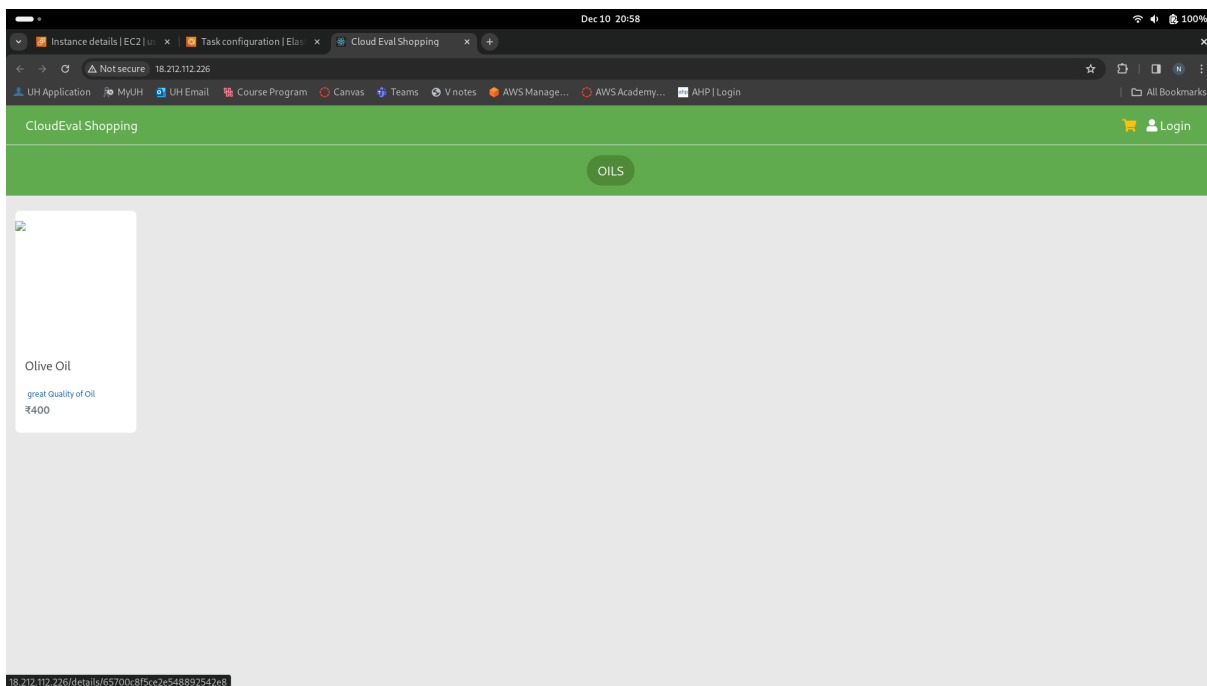


Shopping Cart page of monolithic deployment

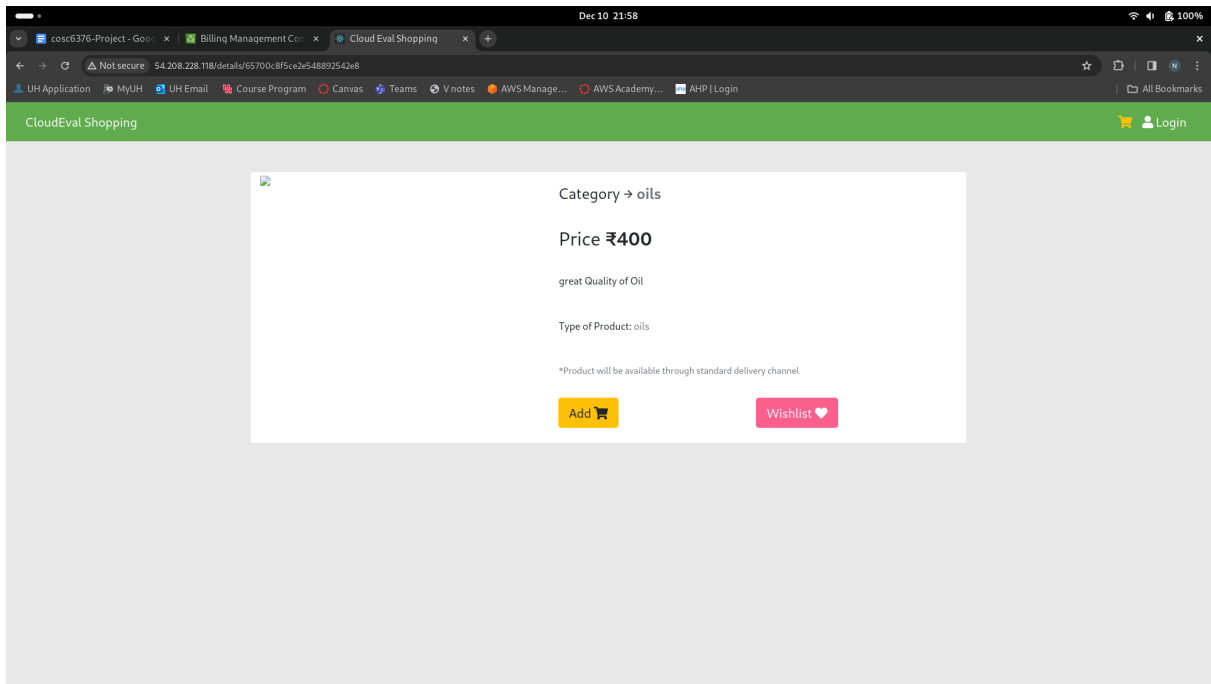


Orders page of monolithic deployment

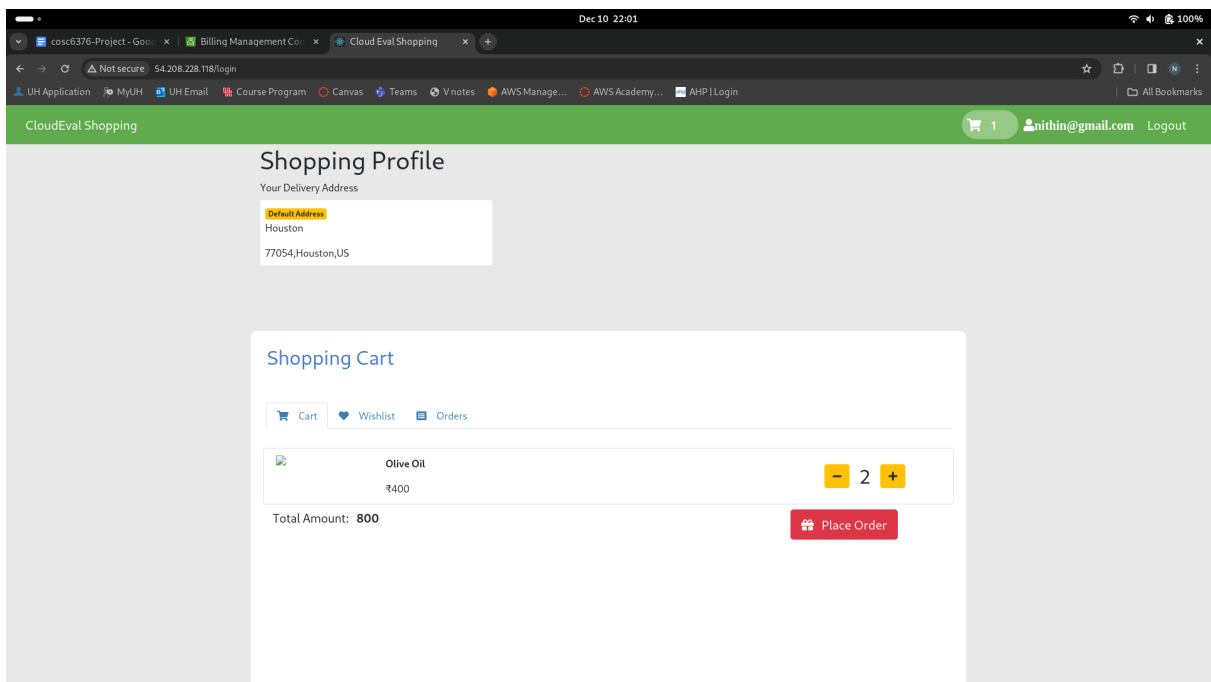
## Microservices Deployment



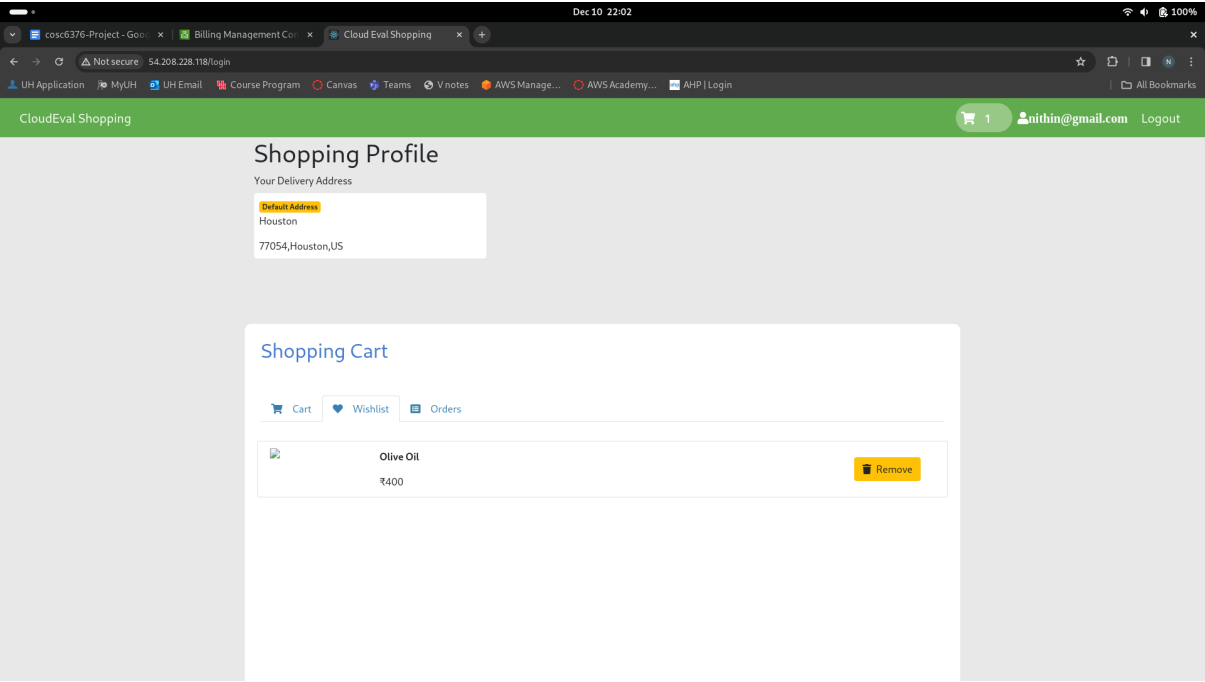
Deployed Microservices Application



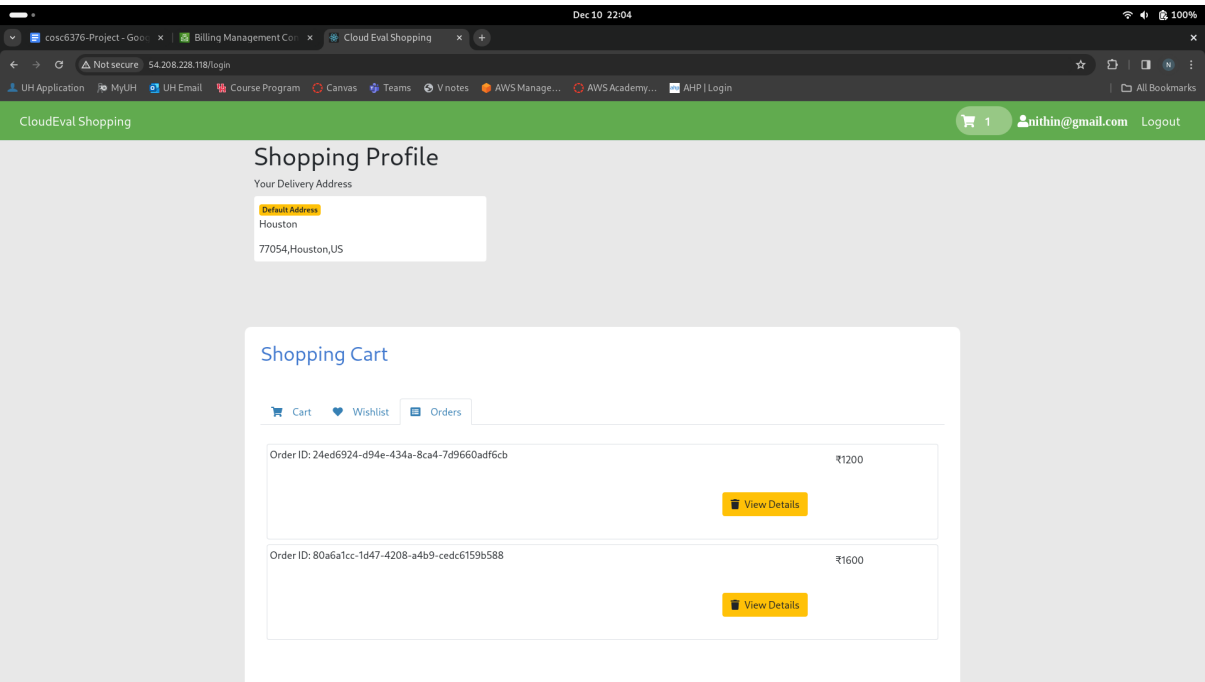
Product View Page



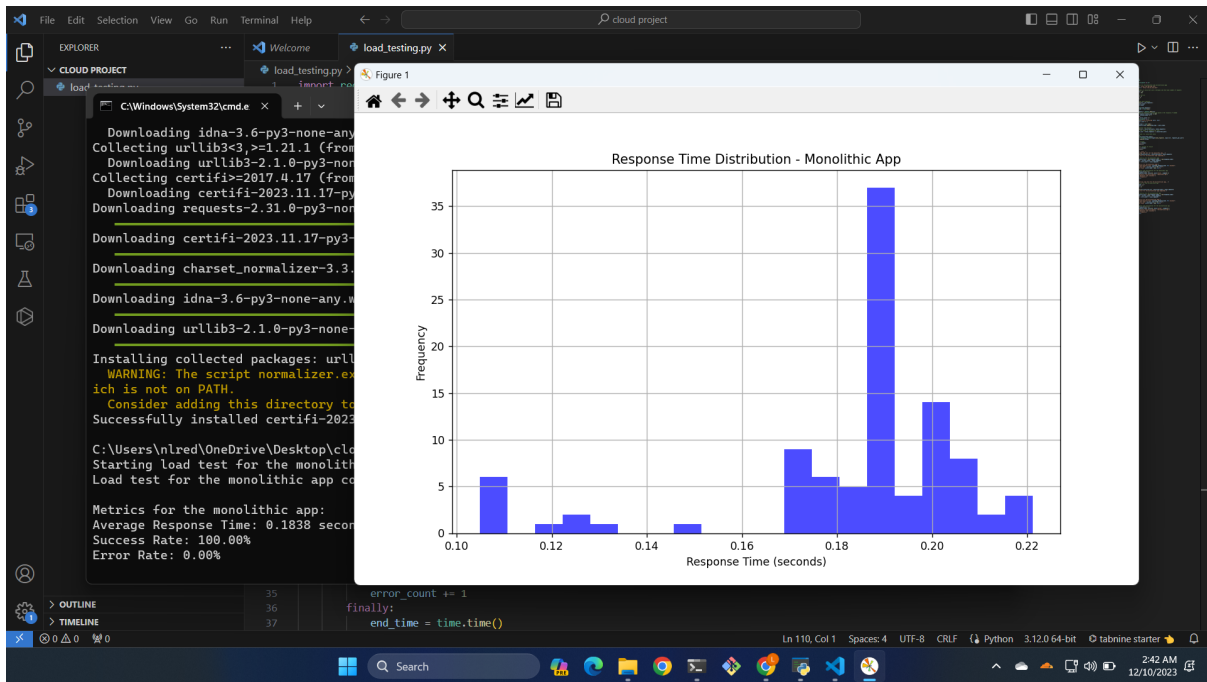
Dashboard Page with Cart Display



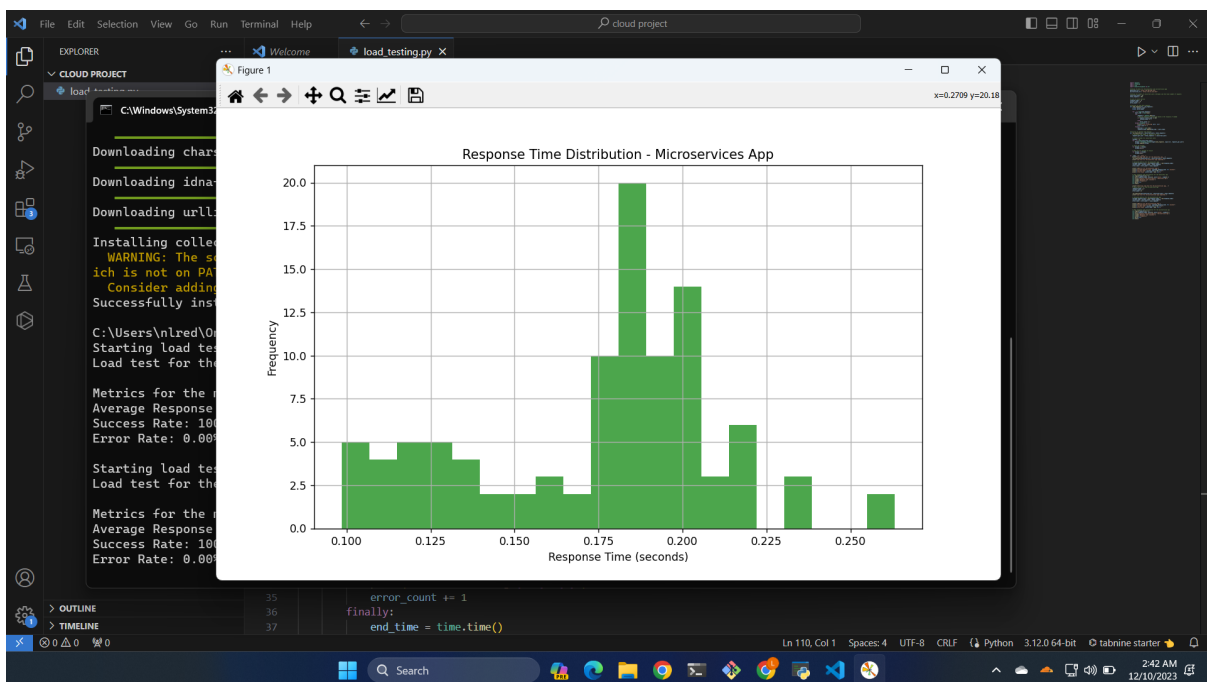
With wishlist display



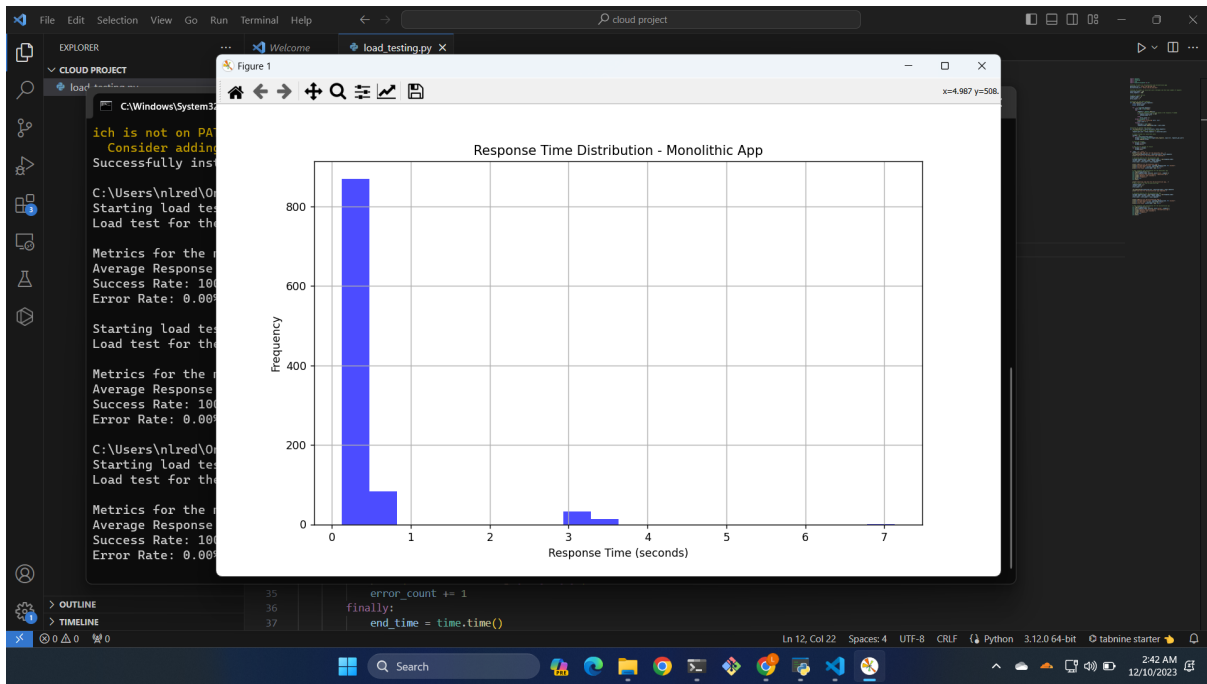
With orders display



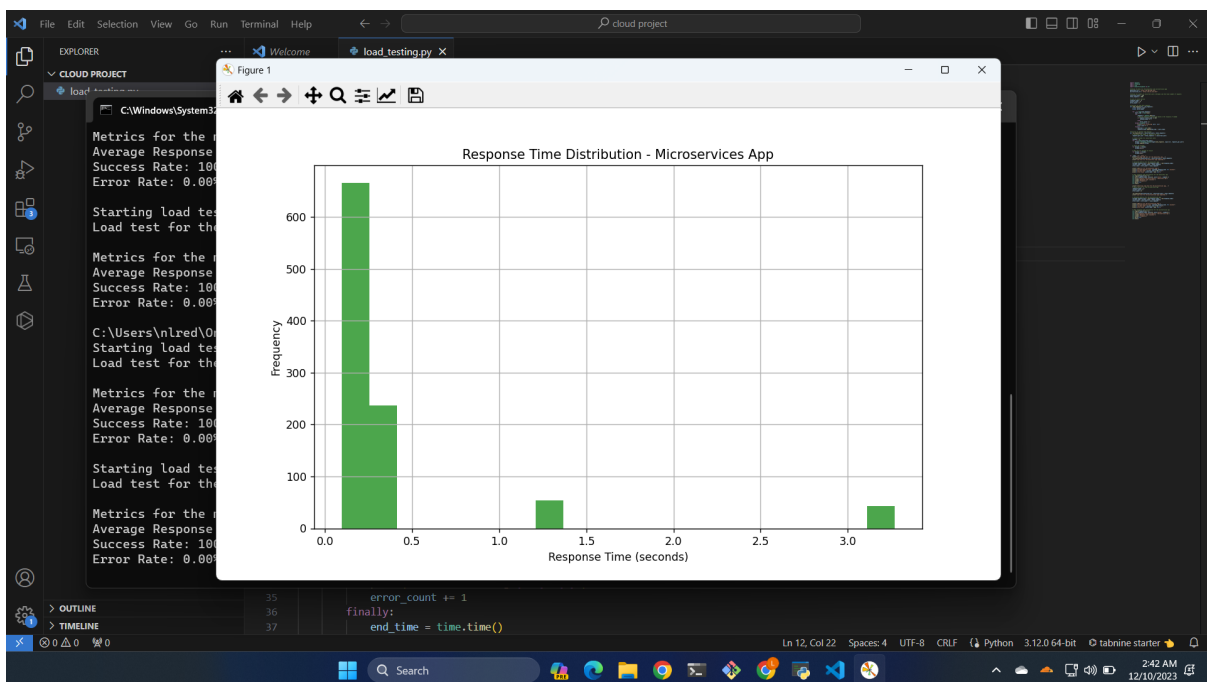
Response time vs Frequency plot with 100 requests and 10 concurrent users, each user sends 10 requests.



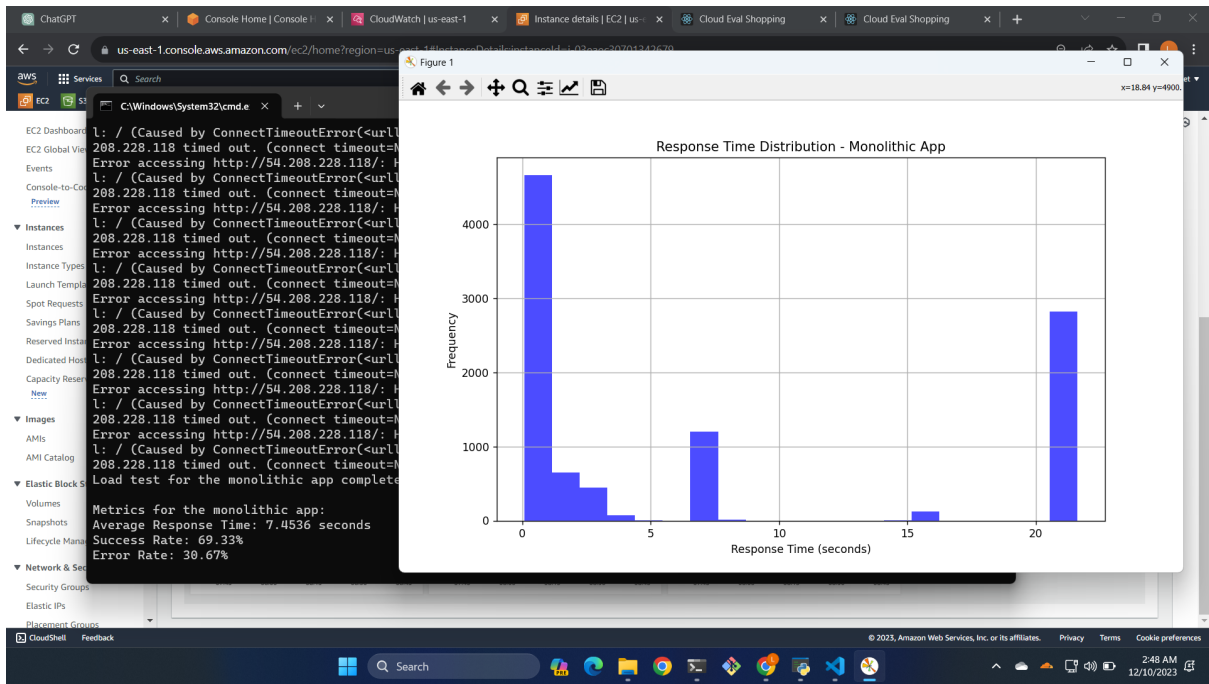
Response time vs Frequency plot with 100 requests and 10 concurrent users, each user sends 10 requests.



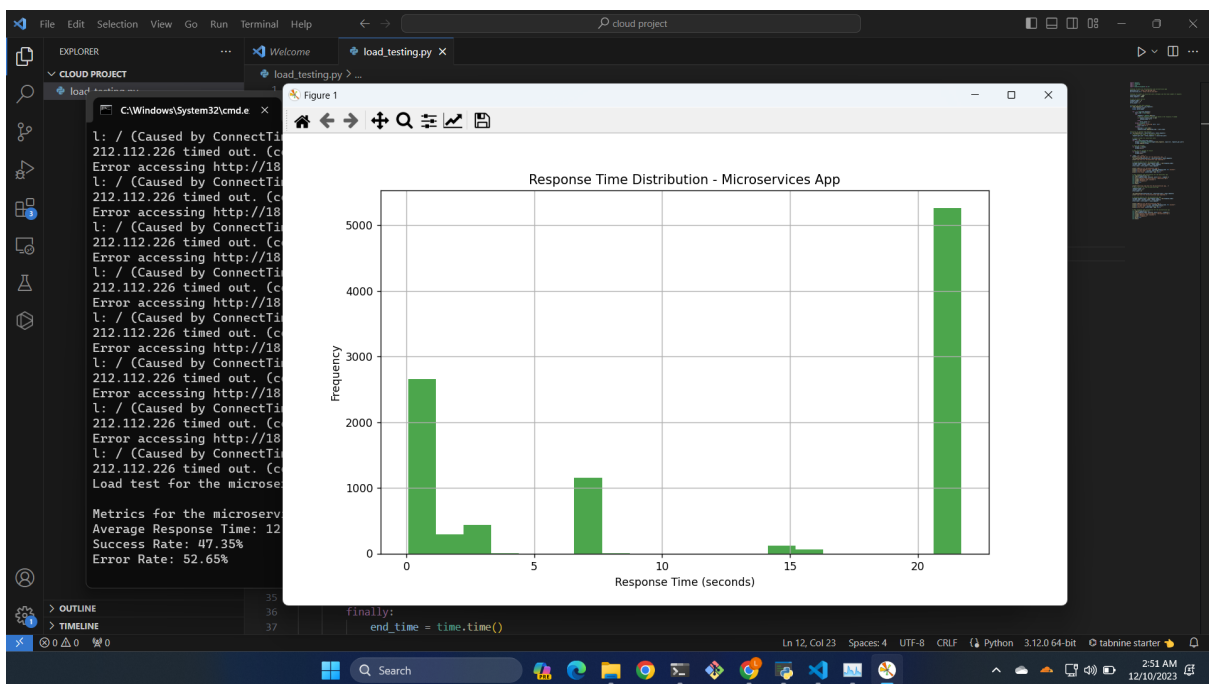
Response time vs Frequency plot with 1000 requests and 100 concurrent users, each user sends 10 requests.



Response time vs Frequency plot with 1000 requests and 100 concurrent users, each user sends 10 requests.

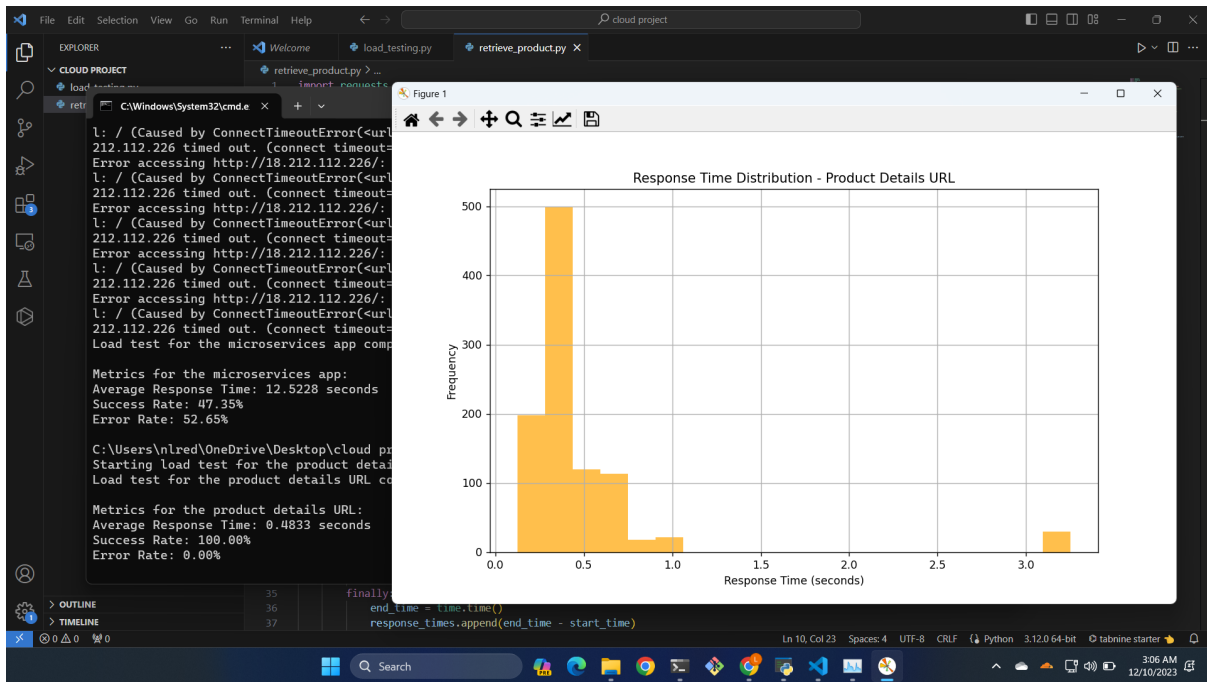


Response time vs Frequency plot with 10000 requests and 1000 concurrent users, each user sends 10 requests.

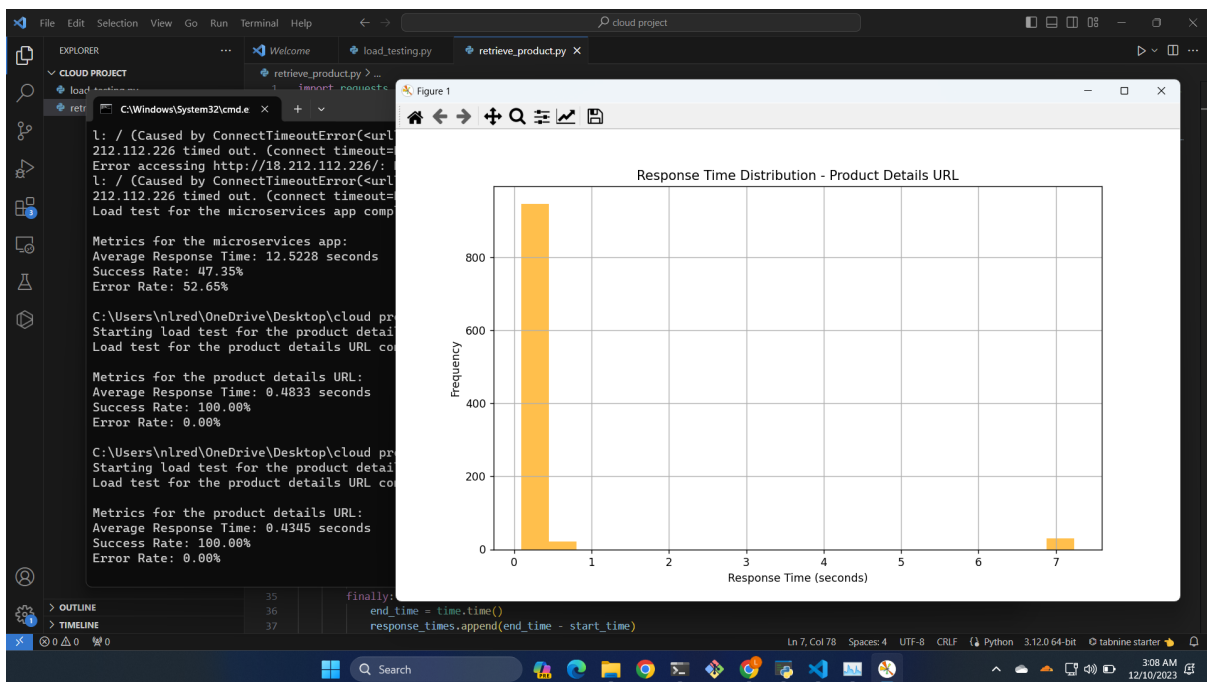


Response time vs Frequency plot with 10000 requests and 1000 concurrent users, each user sends 10 requests.

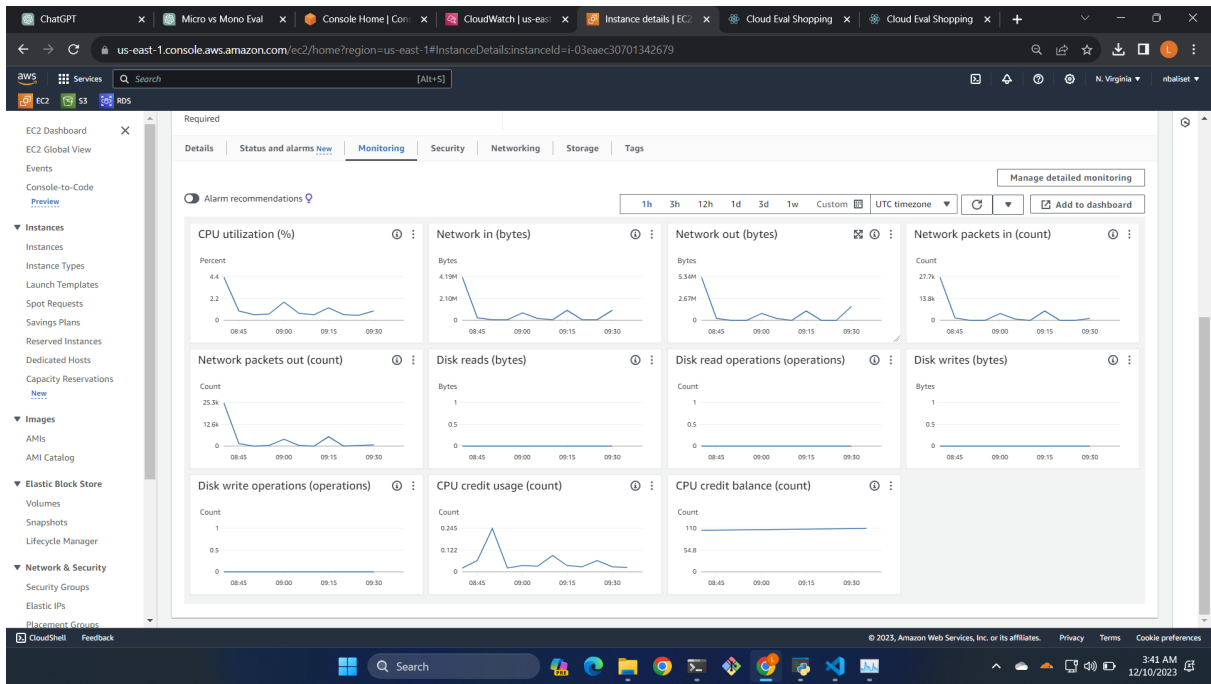




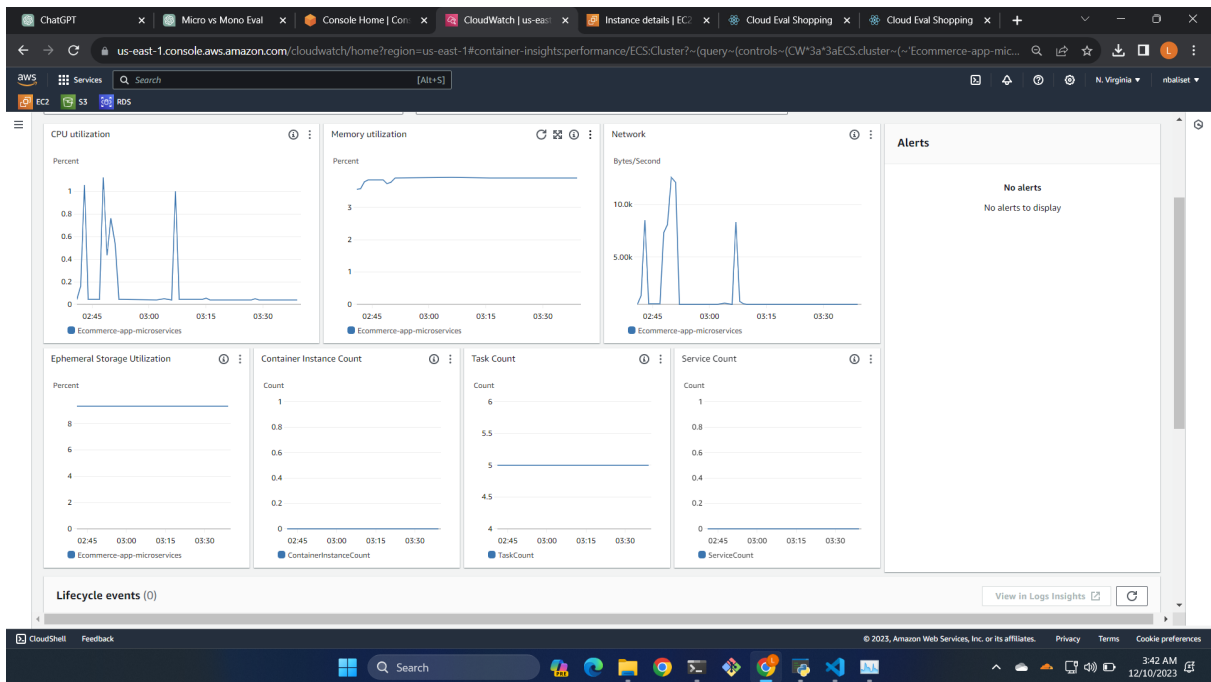
Response time vs frequency plot of product details of a product. (Monolithic)



Response time vs frequency plot of product details of a product. (Microservices)



CloudWatch dashboard of monolithic app showing spikes in usage during load testing.



CloudWatch dashboard of microservices app showing high spikes in usage.