

## SIT737 - Task 5.1P: Dockerisation of a Simple Web Application

This task demonstrates how to Dockerize a basic calculator API built using Node.js and Express. It also includes Docker Compose for orchestration and a container health check to ensure the app is running properly.

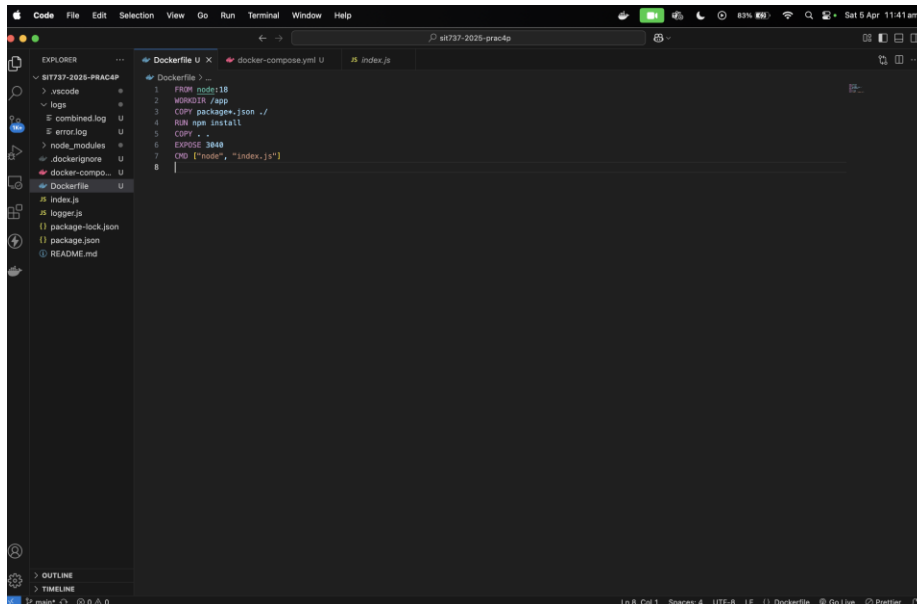
**Step 1:** Install Required Tools - Node.js - Docker Desktop - Git - Visual Studio Code

**Step 2:** Clone my previously created calculator app with endpoints like /add, /sub, /multi, and /div using Express.js

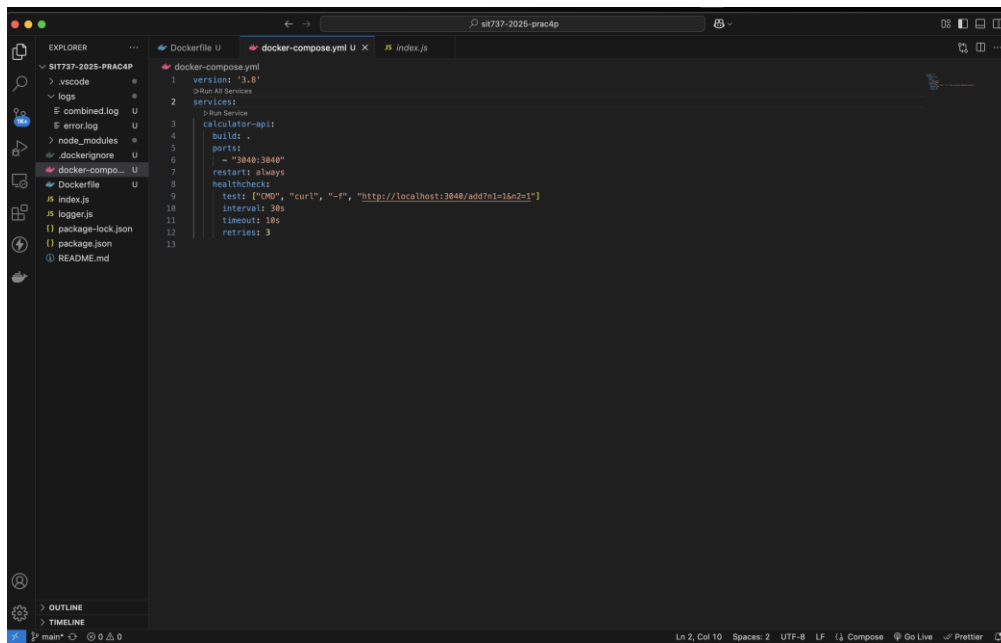
**Step 3:** Initialize Node Project and Install Dependencies

**npm install**

**Step 4:** Create Dockerfile

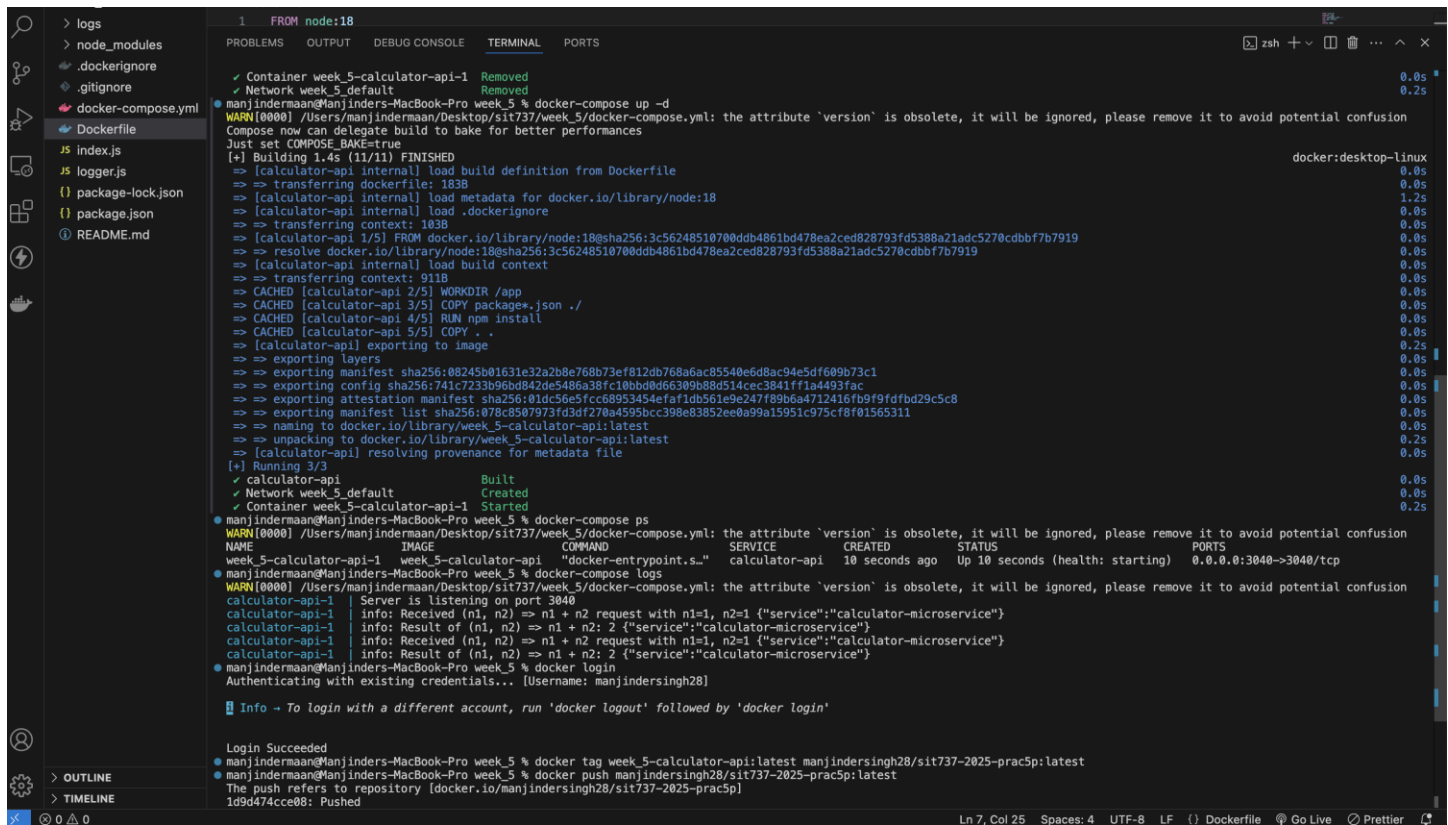


**Step 5:** Create docker-compose.yml

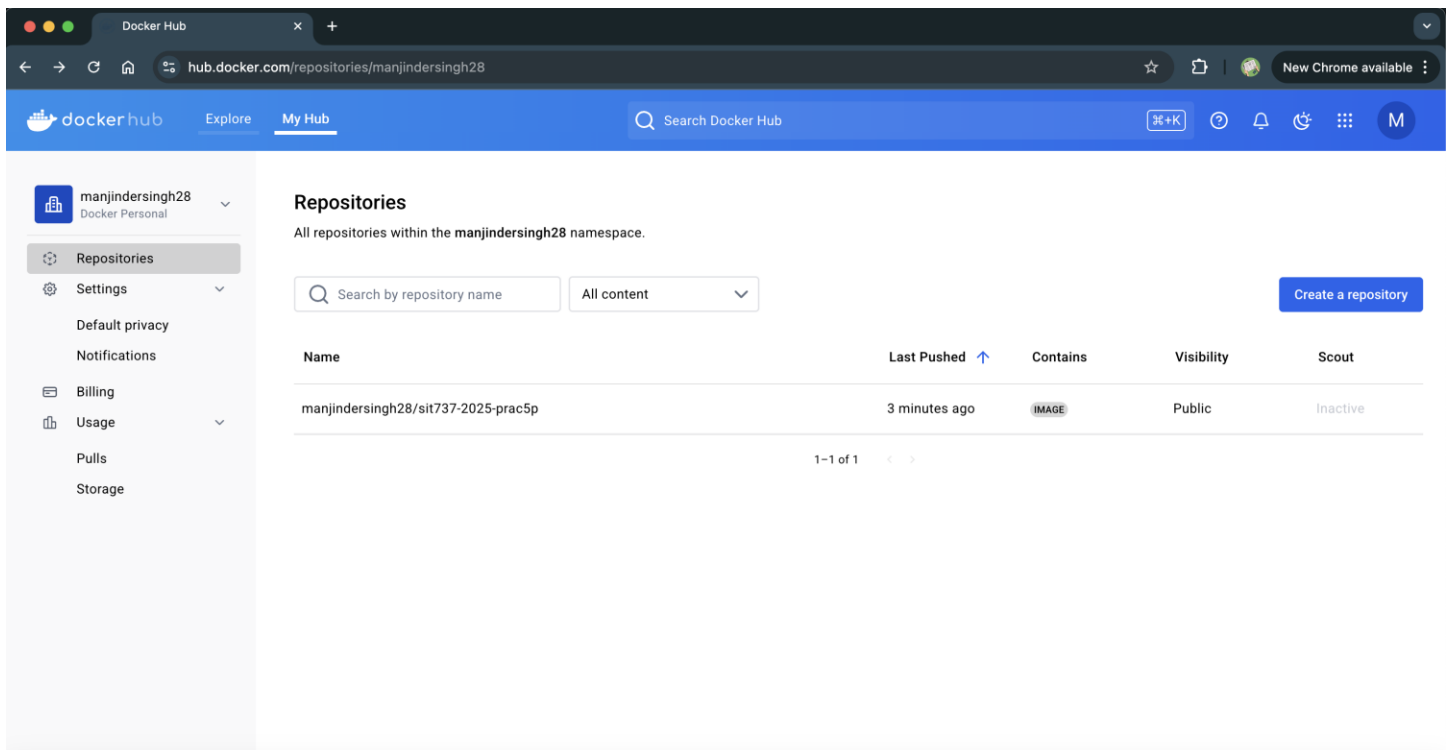


**Step 6:** built the Docker image and started the containers using Docker Compose.

docker-compose up-d







## Step 9: Push to GitHub Repository

GitHub URL: <https://github.com/Manjindersingh28/sit737-2025-prac5p.git>

