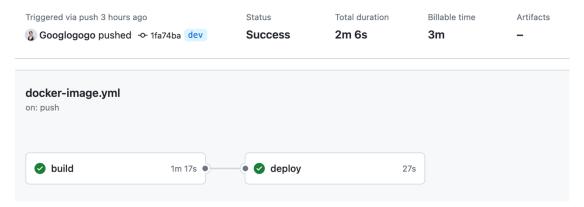
Assignment 2 Document

CI section

- 1. For part one, our team choose to use github actions, therefore there is no need to reupload our code elsewhere. The result of which will be demonstrated below.
- 2&3. For this part, we wrote two files to port our backend to docker.
- ./backend/Dockerfile and ./github/workflows/docker-image.yml

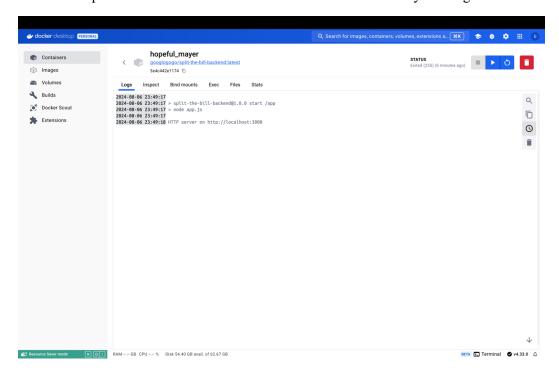
Which you can find in the repo, the Dockerfile in the ./backend directory contains instructions for Docker to build an image for the backend application, including setting up the environment, installing dependencies, copying application code, and defining the command to run the app. In parallel, the docker-image.yml file in the .github/workflows directory is a GitHub Actions workflow configuration that automates the process of building, testing, and deploying this Docker image to a container registry whenever code is pushed to the repository or a pull request is opened. This CI/CD pipeline ensures that the application is consistently built and deployed, maintaining integration and deployment efficiency. By doing this, after we pushed anything to the main branch, jobs will run in github actions, similar to the following.



After which, you can see it is deployed on the docker hub.



And we can pull it from the local docker and run it. It is successfully running:



CD section:

Our team attempt to deploy our backend using Azure.