**ISSUE NO 1**

I have developed three images namely:

1. *Frontend-react*
2. *Backend-flask*
3. *Nginx*

There are separate folders for every image and Dockerfiles are also present there that I used to make image.

**Front-End:**

* In frontend I wrote a Dockerfile to make image of react app
* It will copy all the file from present directory to container
* It will install all necessary packages
* It will run on npm run command
* I have exposed port 3000 in Dockerfile

**Back-End:**

* In Backend I wrote a Dockerfile to make image of flask app
* It will copy all the file from present directory to container
* It will install all necessary packages from requirments.txt
* It will run on gunicorn command
* I have exposed port 5000 in Dockerfile

**Nginx:**

* In nginx I wrote a Dockerfile to make image of nginx
* It will copy nginx config file to container
* Now what is in nginx config file
* In nginx I have specified that when user enter URL (here we have set localhost) on port 80it will be redirected to frontend

**Docker-compose:**

In docker compose I wrote services for each container (frontend, backend and nginx)

In nginx we said that nginx is dependent on front end and back end which means we made connection between frontend and backend with nginx

Next in frontend I said that frontend is dependent on backend

And now on docker-compose up –build command it will run our app on localhost port 80