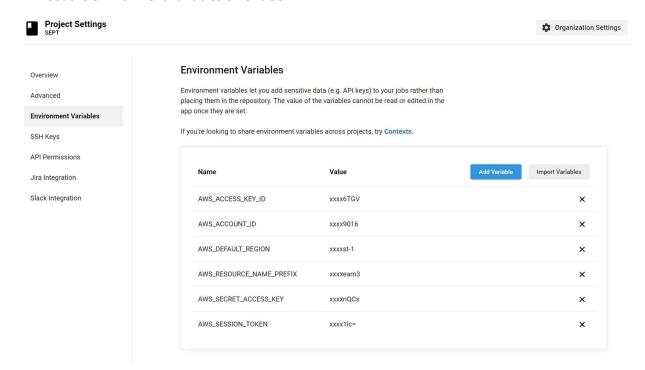
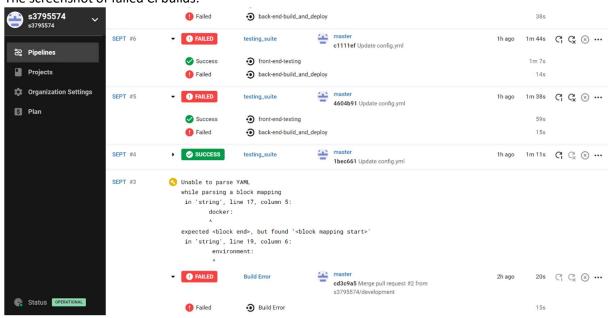
NOTE: Due to the CircleCl is out of credit, we created private repo on GitHub and a new project in CircleCl.

Part 1 Backend:

1. Set the environment variables on CircleCI



- 2. The config.yml on the private repo had been copied to our team repo https://github.com/RMIT-SEPT/majorproject-1-fri-10-30-3.
- 3. The screenshot of failed CI builds.



#3 has some compile errors, they were about alignment.

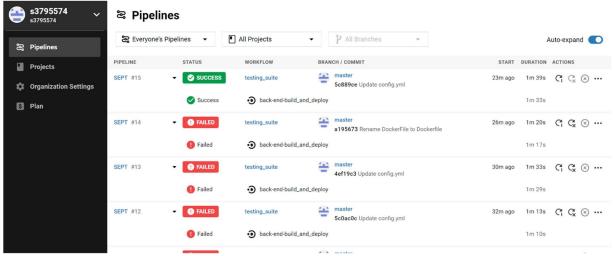
#4 is success because I comment out the jobs to test if there is any compile error. #5 and the builds after it,tThe front-end testing is passed, however, the backend job in config.yml failed.



As you can see from the picture above, it is a path error because my config.yml is at the root directory of the project. However, I have both frontend and backend folder, checksum cannot find pom.xml under root directory. (It is under /backend)

You can see I run the command cd./BackEnd, it did not work because I put it in the wrong place.

4. After tried 15 times, I finally pushed the image to the ECR. I commented out the frontend job in workflow to make it faster. So, there is only one backend job in the picture.



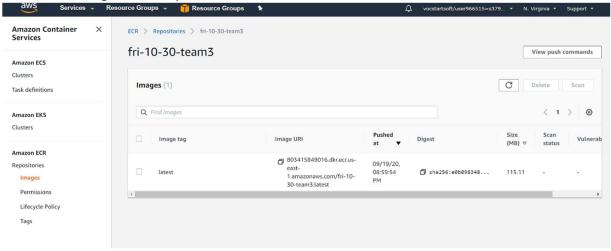
The issues were mainly about the path. Also, one of the issues is that the Dockerfile name, as you can see in the #14 on the picture, I changed it from DockerFile to Dockerfile.

5. The picture below shows the detail of each steps

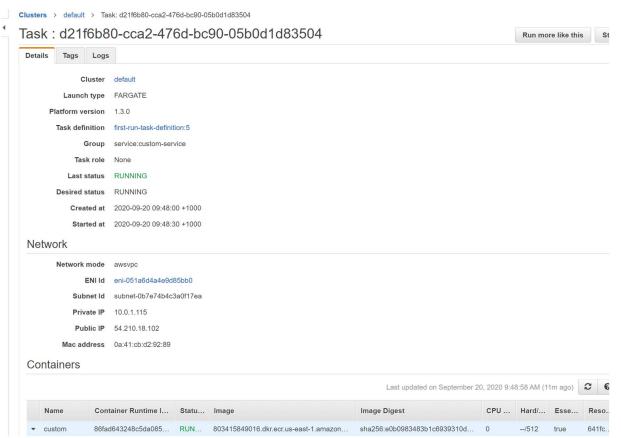


You can see the image had been built and pushed into ECR. You can see my account id in picture above. (The second line under Push image)

6. The backend image had been pushed into AWS ECR.

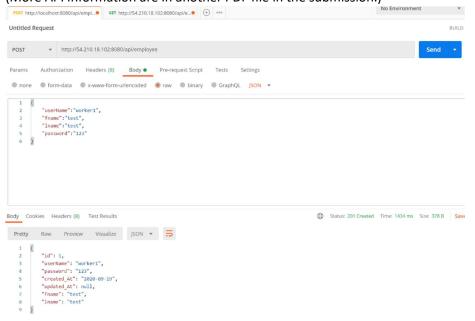


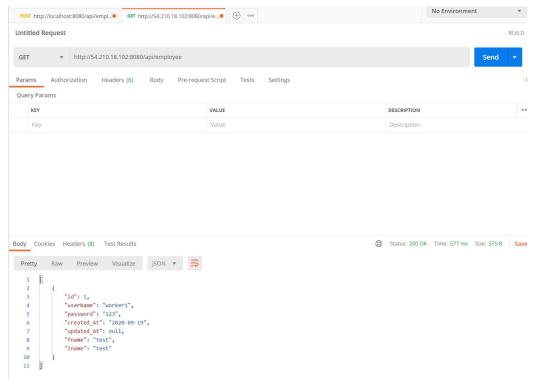
7. Make it run on AWS



You can see the image and its IP address. Now, you could use http://54.210.18.102:8080/api/ to add or retrieve from the database (For milestone2 it is inmemory database).

(More API information are in another PDF file in the submission.)

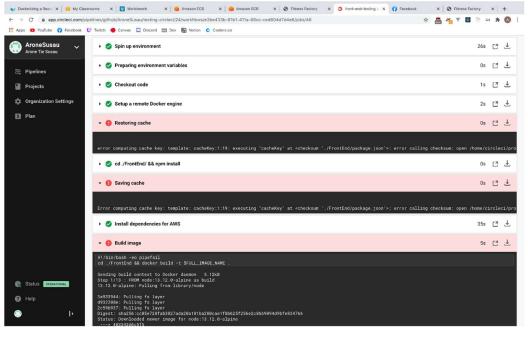




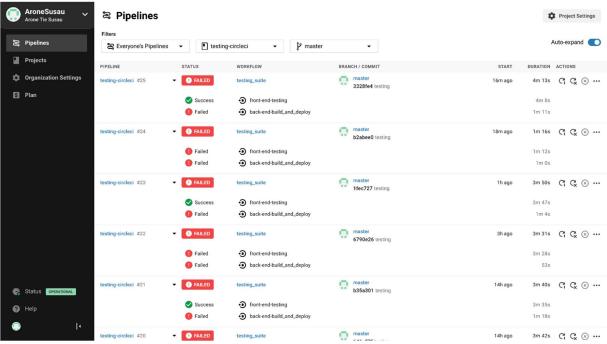
In the java code, new Date() probably returns GMT time so that it shows 2020-09-19 in the picture above, however, in the Task screenshot, you can see I did this on 2020-09-20. We set the H2 database could not be accessed from remote, so visit http://54.210.18.102:8080/h2-console/ will get an error message.

Part 2 Frontend:

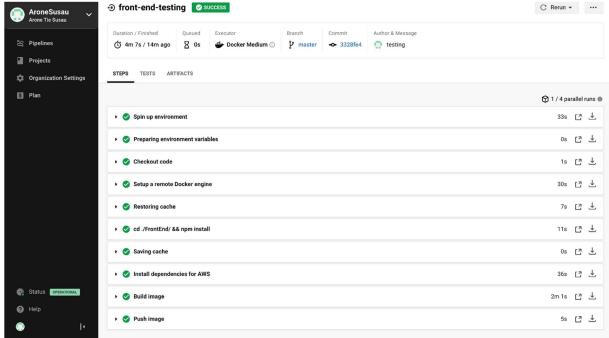
1. The details of Frontend debug on CircleCI



2. After 25 tries, it finally worked. NOTE: we did this separately(Frontend and Backend), so that you can see when the backend is failed while the frontend passed.



3. The details of build and push image to aws.



4. The link of frontend page is http://34.207.143.47/, Inside the admin page, you can see the employee record shown on the Backend part step 7 are listed on the web page.

