

1. Instructions for the teaching assistant

Implemented optional features

1. Implement monitoring and logging for troubleshooting

Instructions for examiner to test the system

Starting point of this project is previous message queue project. There are five service now and new one is service_api. After cloning the project set directory to message_queue. Run the command
docker compose up --build

Then ping localhost:8083 and you can view the front page and operate the project from there.

For testing, set the directory to service_api and run “npm test”. Remember node_modules.




















































2. Description of the CI/CD pipeline

After installing gitlab runner. I registered the gitlab runner with registration token and I am able to see the runner on my active runner list. This active now responsible for all pipelines for the project.

Reference-

<https://gist.github.com/barnybug/e988cfcd937e7414187c51f4d1e2cb82#file-docker-compose-yml>

3. Example runs of the pipeline

Status	Pipeline ID	Triggerer	Commit	Stages	Duration	
	#446767112 latest		 project -> f52af780 Get /run-log returns a 20...	  	🕒 00:01:46 🕒 13 minutes ago	
	#446763546		 project -> d67d77f7 Get /state returns a 200 ...	  	🕒 00:01:47 🕒 19 minutes ago	
	#446760724		 project -> 09855708 PUT /state returns a 200 ...	  	🕒 00:01:46 🕒 22 minutes ago	
	#446757022		 project -> 34c30b09 GET /messages returns a...	  	🕒 00:01:43 🕒 28 minutes ago	
	#446711160		 main -> ae2b75ca Update .gitlab-ci.yml file	  	🕒 00:01:42 🕒 1 hour ago	
	#446708692		 main -> ae2b75ca Update .gitlab-ci.yml file	  	🕒 00:01:34 🕒 1 hour ago	 
	#446703913 error		 main -> ae2b75ca Update .gitlab-ci.yml file		🕒 1 hour ago	
	#446697505 error		 main -> 38cc87a2 Update .gitlab-ci.yml file		🕒 2 hours ago	

4. Reflections

Main learning for the project is gitlab runner. I missed a point and was trying gitlab runner on course GitLab. Later Kari Sir helped me to understand what was wrong. That's why may be on this repo not enough commits you will find. I faced difficulties with it. Implementing service api was also challenging but in the end it works fine.

Amount effort (hours) used

I spent more than 100 hours. Although I was stuck on a silly issue of GitLab.