

Gołang Final Project Proposal

Group 21

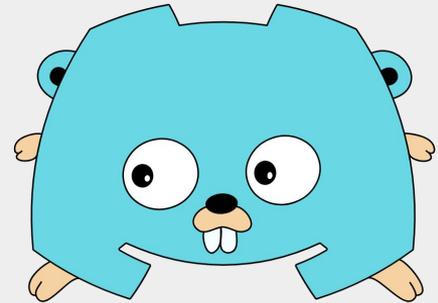
Team Members

- 111550013 施羿廷
- 111550055 黃致皓

Topic

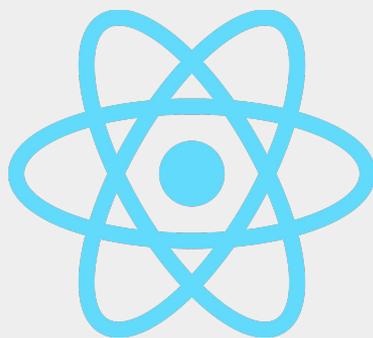
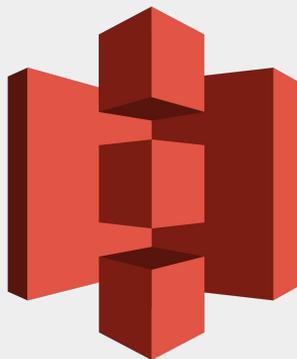
- Cloud Native and High Observability Discord Bot for Meme Image Auto Reference using DiscordGo

<https://github.com/bwmarrin/discordgo>



Description

- A Discord bot that can:
 - Accepts user uploaded image and stores to S3
 - Stores links of alias to image using discord commands
 - Reply image when certain alias is identified in the messages
 - Show all the image and alias in a WebUI with token-JWT exchange based authentication
 - Send logs and traces to an OpenTelemetry infrastructure



Demo - Discord Bot

`/image upload` Upload an image.



file: 349.gif

`/image upload` file 349.gif

窩都不會 used `image upload`

谷風 天音 APP 1:51 PM

! The application did not respond

Only you can see this • Dismiss message

maruma 10/6/24, 1:13 AM

好耶
好了
Orz

谷風 天音 APP 10/6/24, 1:13 AM



Demo - K8s & CI/CD



```
ytshih@workstation ~> k get all
```

NAME	READY	STATUS	RESTARTS	AGE
pod/amane-backend-595659b49d-jh2z8	1/1	Running	0	26d
pod/amane-dcbot-88d5978b5-z656n	1/1	Running	7 (3m32s ago)	27d
pod/amane-frontend-8d6997b46-jq6t8	1/1	Running		

NAME	TYPE	CLUSTER-IP
service/amane-backend	ClusterIP	10.111.170.13
service/amane-frontend	ClusterIP	10.100.170.53

NAME	READY	UP-TO-DATE
deployment.apps/amane-backend	1/1	1
deployment.apps/amane-dcbot	1/1	1
deployment.apps/amane-frontend	1/1	1

NAME	DESIRED
replicaset.apps/amane-backend-595659b49d	1
replicaset.apps/amane-dcbot-88d5978b5	1
replicaset.apps/amane-frontend-8d6997b46	1

```
ytshih@workstation ~>
```

A screenshot of the Gitea web interface showing a CI/CD pipeline. The top navigation bar includes links for Code, Issues, Pull Requests, Actions, Packages, Projects, Releases, Wiki, and Activity. The main content area displays a commit by ytshih on the main branch. Below the commit, a job named "release-image" is shown as successful, with a duration of 1m19s. The job log is visible, showing steps like "Set up job", "Build and push image", and "Complete job". The log output includes details about npm vulnerabilities and the successful build of the "tanikeze-amane@1.0.1" image.

AI usage

- 目前 None
- 所有討論都發生在某天的宵夜



Team Member Collaboration

- 可能會每個人底下挑兩個 section (一個 Go + 一個不是 Go)
- Golang Web Backend (bun, bunrouter, otelzap)
- Golang Discord Bot (DiscordGo)
- Web Frontend (TypeScript, React, Tailwind)
- Infrastructure / DevOps