

# Golang Final Project Proposal

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Group 21

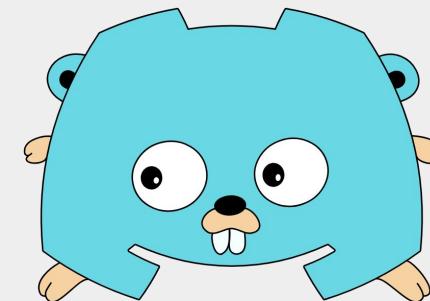
# Team Members

- 111550013 施羿廷
- 111550055 黃致皓

# Topic

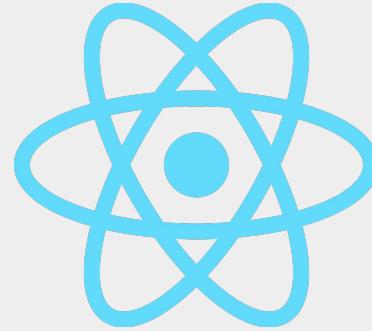
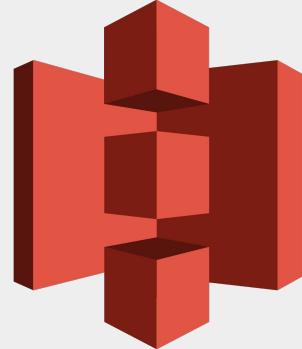
- Cloud Native and High Observability Discord Bot for Meme Image Auto Reference using DiscordGo

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



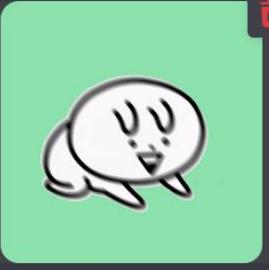
# Description

- 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

谷風 天音 APP 10/6/24, 1:13 AM  
窝都不會 used :file: image upload

谷風 天音 APP 1:51 PM  
❗ The application did not respond

⌚ Only you can see this • Dismiss message

谷風 天音 APP /image upload file 349.gif



# 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-z65n6n	1/1	Running	7 (3m32s ago)	27d
pod/amane-frontend-8d6997b46-jq6t8	1/1	Runni	0	

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

NAME	READY	UP-TO-DAT
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 ~>
```



Service / amane-tanikaze-dcbot

Code Issues 1 Pull Requests Actions Packages Projects Releases Wiki Activity Re-run all jobs Settings

Feat: use bundled gitea action image.yaml: Commit fff9864d8b pushed by ytshih [main]

release-image 1m19s

release-image Success

Set up job

Build and push image

Complete job

```
1 #13 6.558
2 #13 6.558 9 vulnerabilities (1 low, 2 moderate, 5 high, 1 critical)
3 #13 6.558
4 #13 6.558 To address all issues, run:
5 #13 6.558 npm audit fix
6 #13 6.558
7 #13 6.558 Run `npm audit` for details.
8 #13 6.560 npm notice
9 #13 6.560 npm notice New major version of npm available! 10.8.1 -> 11.3.0
10 #13 6.560 npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.3.0
11 #13 6.560 npm notice To update run: npm install -g npm@11.3.0
12 #13 6.560 npm notice
13 #13 6.779
14 #13 6.779 > tanikaze-amane@1.0.1 build
15 #13 6.779 > npx tsc --build
16 #13 6.779
17 #13 DONE 12.9s
18
19 #14 [stage-1 3/3] COPY --from=build /work /work
20 #14 DONE 3.5s
```

# 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