Basic mac commands

- Screenshot + copy Command + Control + Shift + 4
- Screenshot only command shift 4
- For nano use crtl O and crtl X

Task - User API:

build an rest api using GO, with following apis should be provided:

- to add new user (name, age, id <- unique, just need to be a plain number)
- to get data of a user by providing user's id
- to update user data (name + age) by providing id
- to list out all users registered
- -tech stack: Go, Gin (rest framework), for now can just save data on RAM no need database yet (meaning if you restart your api, data lost)

https://go.dev/doc/tutorial/web-service-gin

Instructions:

After installing GO on mac:

In the terminal:

[pncy1926@V-SPDT-NATHANIELCHIN-MB ~ % nano ~/.zshrc

Then paste:

export PATH=\$PATH:/usr/local/go/bin export PATH=\$PATH:\$GOPATH/bin

Then source the path file

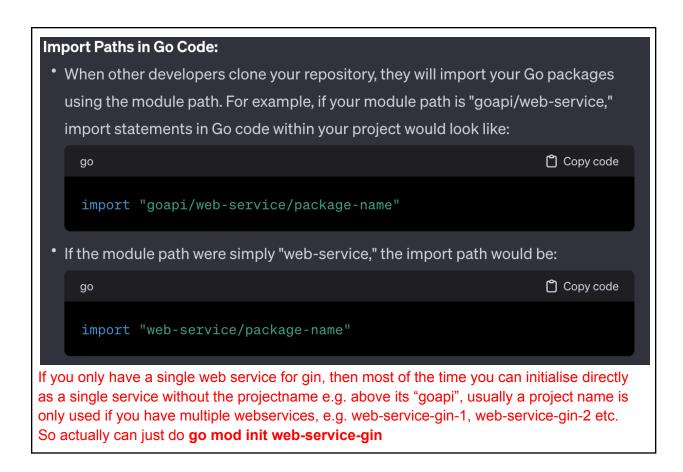
pncy1926@V-SPDT-NATHANIELCHIN-MB ~ % . ~/.zshrc

Create a service:

Mkdir goapi

Cd goapi

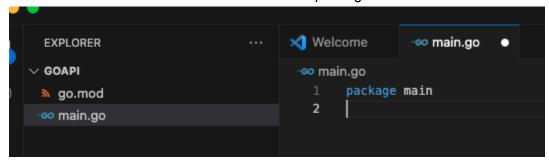
Go mod init project_name/web_service_name



```
[pncy1926@V-SPDT-NATHANIELCHIN-MB goapi % go mod init example/web-service
go: creating new go.mod: module example/web-service
[pncy1926@V-SPDT-NATHANIELCHIN-MB goapi % ls
go.mod
```

This creates the go mod file that contains a list of all the directories for tracking

Then next in our webservice folder we create a package



Once you finish the code for the api, we need to use go get to install dependencies for our current directory

1. Begin tracking the Gin module as a dependency.

At the command line, use go get to add the github.com/gin-gonic/gin module as a dependency for your module. Use a dot argument to mean "get dependencies for code in the current directory."

```
$ go get .
go get: added github.com/gin-gonic/gin v1.7.2
```

Go resolved and downloaded this dependency to satisfy the import declaration you added in the previous step.

2. From the command line in the directory containing main.go, run the code. Use a dot argument to mean "run code in the current directory."

```
$ go run .
```

Once the code is running, you have a running HTTP server to which you can send requests.

3. From a new command line window, use curl to make a request to your running web service.

```
$ curl http://localhost:8080/albums
```

```
curl http://localhost:8080/users \
    --include \
    --header "Content-Type: application/json" \
    --request "POST" \
    --data '{"id": "4","name": "testname","age": 55}'
```

Task 2: url shortening service

Once postgresql is installed you can launch the ui interface pgadmin

- My superuser password during installation was set to "123"
- I then create a new db called urlDB and set host name to "localhost" and put a password for the DB to 123