Reference Report

1. Client code

Source -

https://github.com/tech-with-moss/go-usermgmt-grpc/blob/main/usermgmt_client/usermg mt_client.go

Which part of it do you reuse? Line 18 - 25

Which part of your code reuse it? Line 35-42 -> client/tokenclient.go

Why do you think it is necessary for you?

This code is needed as we need to set up a Client-Server so that client is able to connect to the server and then make requests. It helped me know the concept of gRPC server and various steps involved in creating one.

Also, this code was not copied as the following video gives the proper explanation of every single thing. So basically this video gave me a head start.

Link -> https://www.youtube.com/watch?v=YudT0nHvkkE

2. Server code

Source -

https://github.com/tech-with-moss/go-usermgmt-grpc/blob/main/usermgmt_server/usermgmt_server.go

Which part of it do you reuse? Line 28 - 36

Which part of your code reuse it? Line 174-182 -> server/tokenserver.go

Why do you think it is necessary for you?

This code is needed as we need to set up a Client-Server so that client is able to connect to the server and then make requests. It helped me know the concepts of gRPC server and various steps involved in creating one.

Also, this code was not copied as the following video gives the proper explanation of every single thing. So basically this video gave me a head start.

Link - https://www.youtube.com/watch?v=YudT0nHvkkE

3. Storing tokens in Slice

The following video was used for reference

Link - https://www.youtube.com/watch?v=QmldWTidEa8

Also, I used the following link to determine which data structure would be better to persist the data and achieve concurrency.

Link - https://go.dev/doc/faq#atomic maps

4. Drop Token Operation

Source-

https://stackoverflow.com/questions/37334119/how-to-delete-an-element-from-a-slice-in-golang

Which part of your code reuse it? Line 63-64 -> server/tokenserver.go

Why do you think it is necessary for you?

As I was using slices to store all the tokens. It was necessary to understand how elements are removed from slices in golang. In the process I got this link which explains how it can be done. Hence to drop the token I used this source.

Approximate reused-code ratio: $\frac{17}{300} = 0.056$

Some other references which were used to inherit the concepts-

https://grpc.io/docs/languages/go/basics/

https://stackoverflow.com/questions/44949467/when-do-you-embed-mutex-in-struct-in-go

https://www.reply.com/alpha-reply/en/content/go-concurrency-with-mutex

https://stackoverflow.com/questions/57700860/protoc-gen-go-program-not-found-or-is-not-exec utable

https://zetcode.com/golang/module/

https://gist.github.com/Integralist/48d35050d5342bb7568f04183b81ca29

https://qvault.io/golang/golang-mutex/

https://developers.google.com/protocol-buffers/docs/gotutorial

https://gobyexample.com/command-line-flags