

CMSC 621 Advanced Operating Systems - Spring 2022

Reference Report for Project - 2

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1 References

1.1 Hash Function

- Source: <https://www.csee.umbc.edu/~kalpakis/courses/621-sp22/project/GoTokens-1.pdf>
- Part I reused: Entire Hash function mentioned in the project write up and pertaining imports
- Reused part in my code: In the utils/utils.go line no. 7, 8, and line no. 11 to 15
- Reasons to reuse: It was given in the project, and deviating from it is unnecessarily reinventing the wheel

Apart from above, I did not copied any code except the hash function mentioned in the project write-up. However, I used following references to learn about the concepts and syntax. Also, there are few things which are almost written in a same way, and I found listing them here is illogical and not good use of my time.

Other References where I learnt syntax/concepts from:

- <https://forum.golangbridge.org/t/cannot-import-package-variables-to-main-package/21193/2>
- <https://github.com/evilsocket/opensnitch/issues/373#issuecomment-803663343>
- <https://github.com/grpc/grpc-go/issues/3794#issuecomment-720599532>
- <https://stackoverflow.com/questions/15178088/create-global-map-variables>
- <https://tutorialedge.net/golang/go-grpc-beginners-tutorial/>
- <https://yourbasic.org/golang/errors-explained/>
- <https://go.dev/blog/maps>
- <https://www.geeksforgeeks.org/math-inf-function-in-golang-with-examples/>
- <https://learnandlearn.com/golang-programming/golang-reference/golang-find-the-minimum-value-min-fu>
- <https://yourbasic.org/golang/multiline-string/>

2 Approximate Reused Code Ratio

- Total lines (Excluding go.mod, go.sum, token_grpc.pb.go, token.pb.go, analysis_helper.sh) = 387
- Total lines (Including above files) = 1182
- Reused lines = 7

Reused Code Ratio (Without auto generated code + analysis_helper.sh)

$$7/387 = 0.018$$

Reused Code Ratio (With auto generated code)

$$7/1182 = 0.006$$