# **Grab Golang Bootcamp**

Week 3 - Session 2



## gRPC CLI

 Can be used to introspect server protos and send/receive test RPCs

```
cang.ta@ITVN000860-MAC ~GP (master**)$ grpc_cli ls localhost:50051 -l
filename: grpc_reflection_vlalpha/reflection.proto
package: grpc.reflection.vlalpha;
service ServerReflection {
    rpc ServerReflectionInfo(stream grpc.reflection.vlalpha.ServerReflectionRequest) returns (stream grpc.reflection.vlalpha.ServerReflectionResponse) {}
}
filename: hello.proto
package: helloworld;
service Greeter {
    rpc SayHello(helloworld.HelloRequest) returns (helloworld.HelloReply) {}
}
```

# gRPC CLI - Install

- Prerequisites
  - Install OS packages
    - https://github.com/grpc/grpc/blob/master/BUILDING.md
- Install gRPC CLI
  - https://github.com/grpc/grpc-go/blob/master/Docum entation/server-reflection-tutorial.md

## gRPC CLI - How to use

- grpc cli help
- grpc cli ls localhost:50051 -1
- grpc\_cli call localhost:50051 helloworld.Greeter.SayHello
  - "name: 'world'"

### **Context**

- Be used to cancel, or halt an operation mid-way, especially with goroutines.
- Add additional-info along, e.g. user's email.
- Links
  - https://golang.org/pkg/context/
  - https://blog.golang.org/context
  - <a href="http://p.agnihotry.com/post/understanding-the-context-package-in-golang/">http://p.agnihotry.com/post/understanding-the-context-package-in-golang/</a>
  - <a href="https://www.sohamkamani.com/blog/golang/2018-06-17-golang-using-context-ca">https://www.sohamkamani.com/blog/golang/2018-06-17-golang-using-context-ca</a> <a href="ncellation/">ncellation/</a>

### **Exercise**

- Create a gRPC server and client for user management.
  - Error handling on client side
  - Create user
  - List user
  - Get user detail
  - Update user detail
  - Delete user
  - (Optional) HTTP RESTful APIs (use gin or grpc-gateway)

# Q&A THANK YOU!