**Task**:

**create a graphql endpoint for fetching users & their details as a list with pagination and search functionality.**

**Description & Objectives:**

**The goal of this assignment is to create a user management service using Go that includes:**

* **A GraphQL API for fetching user data.**
* **A gRPC server to fetch users list with related information .**
* **MySQL as the database.**
* **SQLBoiler ORM to manage database interactions.**

**At the graphql layer a code generation will take place which will be go code generation from the graphql schema .**

**Then a grpc server will be constructed using svc.proto and here also go code will be generated from the svc.proto code**

**Database queries will be written using sql boiler syntax and methods**

**There will be 3 tables**

**users**

**id,email,status,created,modified**

**User\_contact (one to one relation with users table)**

**id ,first\_Name,last\_name,phone,user\_id(id of user)**

**User\_address (one to many with users table)**

**id ,name,prefix, streetAddress1,streetAddress2,city ,state,zipCode,user\_id(id of user)**

**You have to write api only for fetching the list of users along with the related contact and related addresses.**

**You can insert users data and its related table using insert scripts .**

**Below are the packages and tools which you should use**

**google.golang.org/grpc v1.46.2**

[**google.golang.org/genproto**](http://google.golang.org/genproto)

**github.com/volatiletech/sqlboiler/v4 v4.15.0**

**github.com/volatiletech/strmangle v0.0.5**

**github.com/volatiletech/null/v8 v8.1.2go install github.com/gogo/protobuf/protoc-gen-gogoslick**

**go install github.com/golang/mock/mockgen**

**go install github.com/sprucehealth/graphql/cmd/graphql2go**

**go install github.com/agritechcorp/soilkit.com/backend/cmd/cli/go-dal-gen**

**go install golang.org/x/tools/cmd/goimports**

**go install github.com/deepmap/oapi-codegen/cmd/oapi-codegen**

**Writing grpc test cases will be a bonus**