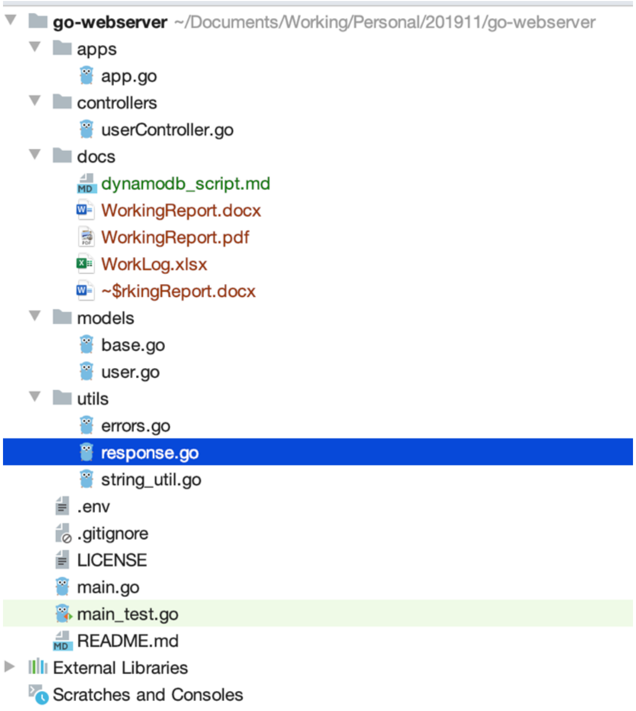
**Working Report – Phan Huu Hung**

## 1. Project Setup

1.1. Environment:
- OS: MacOS Catalina
- Go: 1.13.4
- IDE: GoLand
- DB: DynamoDB Local run on Docker with sharedDb configuration

1.2. Project
- Main moduldes:
  - aws-sdk-go/service/dynamodb: For connect to DynamoDB
  - gorilla/mux: For Go Webserver, using it because it's light and simple when comparing with revel
  - encoding/json, net/http, encoding/base64: For handle request, response in json
  - joho/godotenv: For reading .env configuration file
  - crypto/sha256, google/uuid: For encrypted password, and generating token
- Created Table Script: **dynamodb_script.md in docs directory**
- Configuration: Using **.env** file that provide connection to DynamoDB Local
- Project structure: using MVC model with Controllers (User), Object Models DTO (User, Response), DAO (DynamoDB Client Connection and Operation)
- Source Code, Project Management: Github ([https://github.com/hungph/go-webserver](https://github.com/hungph/go-webserver)), Task Management – Github ([https://github.com/hungph/go-webserver/projects/1](https://github.com/hungph/go-webserver/projects/1))
- Code structure:



```
▼ go-webserver ~/Documents/Working/Personal/201911/go-webserver
  ▼ apps
      app.go
  ▼ controllers
      userController.go
  ▼ docs
      dynamodb_script.md
      WorkingReport.docx
      WorkingReport.pdf
      WorkLog.xlsx
      ~$rkingReport.docx
  ▼ models
      base.go
      user.go
  ▼ utils
      errors.go
      response.go
      string_util.go
    .env
    .gitignore
    LICENSE
    main.go
    main_test.go
    README.md
▶ External Libraries
  Scratches and Consoles
```

## 2. Code Weakness

- This is my very first time to work with Go, I don't know Go Lang and it's eco-system before, so my code may have many, many bugs even I tried my best.

## 3. Next Tasks

- This is very simple sign-up, sign-in system. For using this in production, we can move to use OAuth2 for authentication and authorization user in our system.