storage-service-api

API for authorization, upload file (image and video), and file listing with Go

# Getting started

Before we run/test this API, we need to know how to install it first

# Installation

1. Install go
2. We need to install a couple packages:

* go get github.com/dgrijalva/jwt-go
* go get github.com/go-playground/validator/v10
* go get github.com/gofiber/fiber/v2
* go get gorm.io/driver/sqlite
* go get gorm.io/gorm
* go get

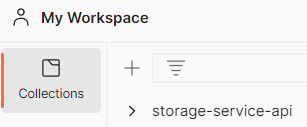
1. I use database sqlite for convenience, so we need to have sqlite installed on our local system
2. For testing I use Postman, you can use both the web version or the desktop version

# Run the API

After the installation process, now we need to run the API

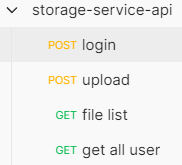
## Set up Postman

1. Open Postman and create a new collection



1. Add four request

* Login: set to POST
* Upload: set to Post
* File List: set to GET
* Get All User: set to GET



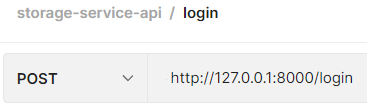
1. I’m running the API on port 8000, so we need to set the URL to:

<http://127.0.0.1:8000>

With addition to 4 request:

* Login: http://127.0.0.1:8000/login
* Upload: http://127.0.0.1:8000/upload
* File List: http://127.0.0.1:8000/items
* Get All User: <http://127.0.0.1:8000/users>

Example:



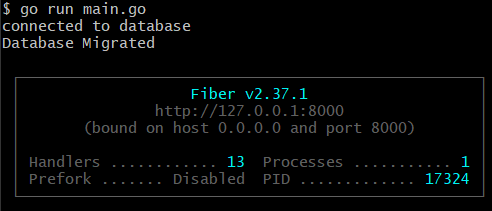
## Run the API

Now it’s time for us to run the API

1. Open your terminal and type:

go run main.go

It should be running like this



Now we are ready to test the API

# API Testing

After we set up postman and run the API from our terminal, it’s time to test this API

## Users

I have prepared 4 users for us to try

* Username: admin, Password: admin

Role: Admin, Authorize to upload file and retrieve file list

* Username: admin1, Password: admin1

Role: Admin, Authorize to upload file and retrieve file list

* Username: user, Password: user, Role: user
* Username: user1, Password: user1, Role: user

## Login

1. Open login request and enter JSON Body:

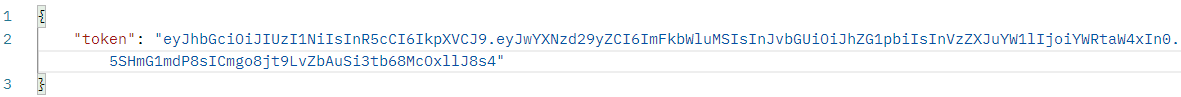
{

    "username": "admin",

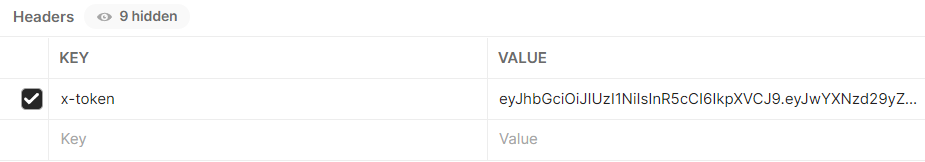
    "password": "admin"

}

1. Send and we will get a token response



1. Copy and paste the token as x-token value on the Headers KEY to other request to run the authorization mechanism:

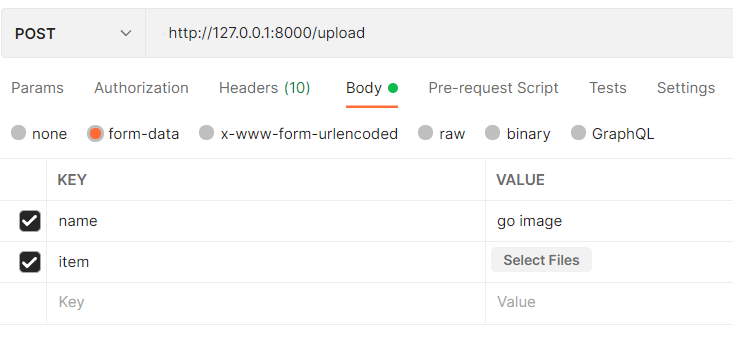


Do it to the other three request and now you are accessing the API as Admin.

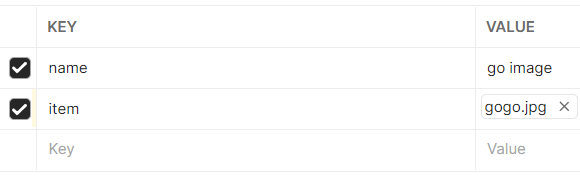
## Upload

This API has Upload function to upload image and video file

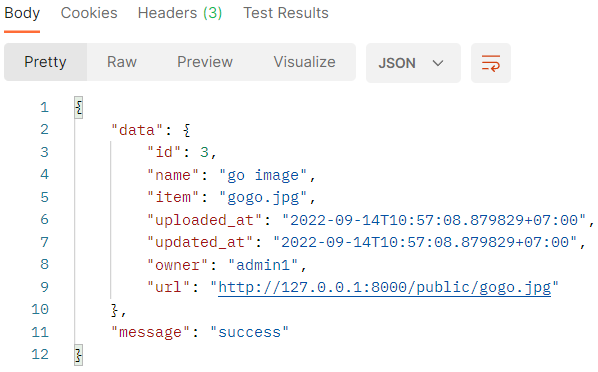
1. Open upload request and now we send data via Form File:



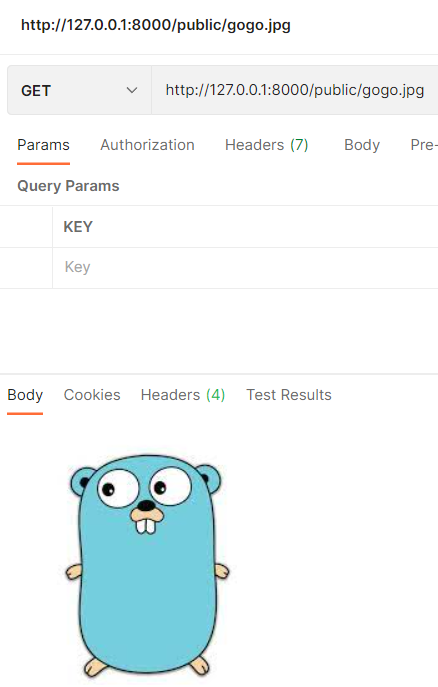
1. Fill the name value and click select files to choose a file you want to upload:



1. Now click send and it should have a response like this:



1. We can open the picture/video by clicking the url to open it on postman, or you can copy the url and open it on your web browser:



## File List

Yes we can open the file that we just uploaded, but some user can also retrieve the list of file uploaded by other user

1. Open file list request and click send as admin, and we should get the file list:

