Token Blacklist

Prepare:

Clone the repository in your local disk.

Now create the virtualenv using below commands.

Install the virtualenv
pip install virtualenv

Initialize the venv in your local dir
virtualenv venv

Activate the virtualenv
source venv/bin/activate

Now you are good to install all of your pip packages.
.//venv/bin/pip install -r requirements.txt

Now the app is ready to test. This app is created in Flask and it has 3 API Endpoints

GET /info
POST /blacklist
DELETE /blacklist

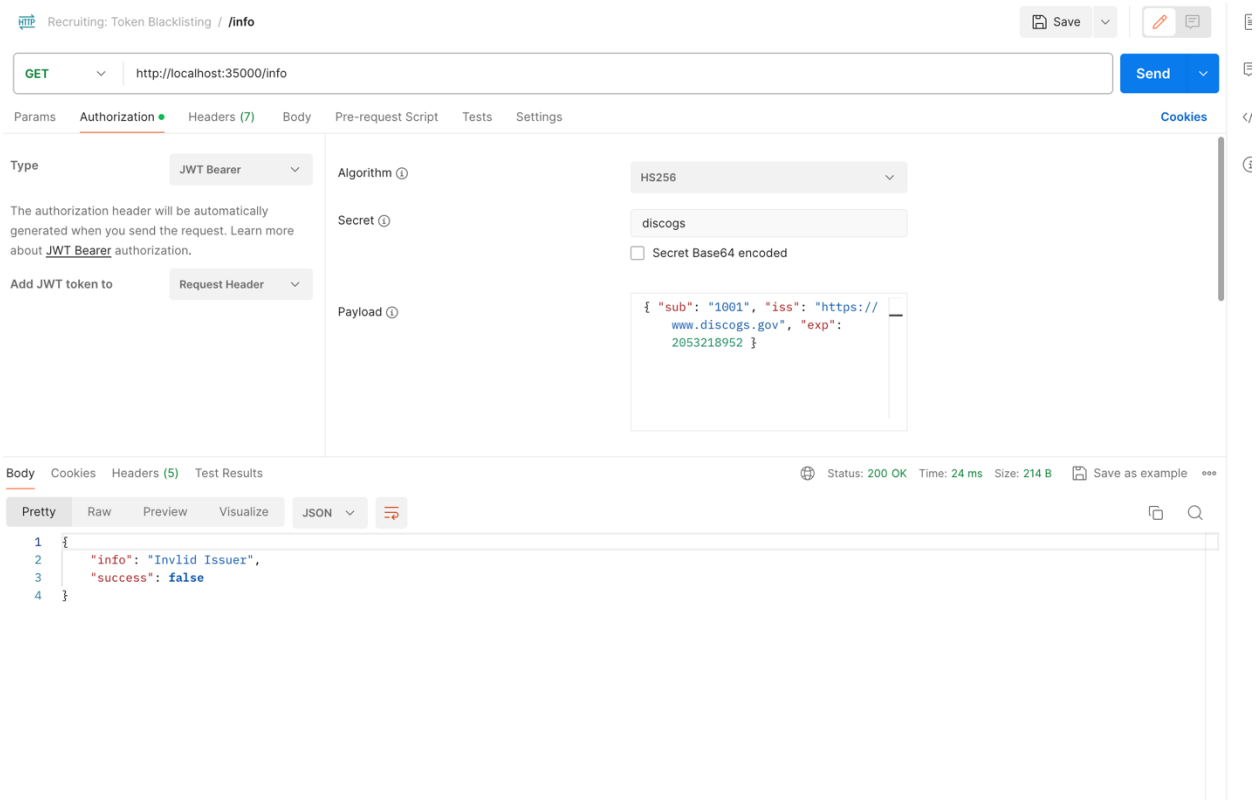
Github repo:
https://github.com/keypat1906/token_blacklist
Let me know if you any issue accessing this repository.

GET /info

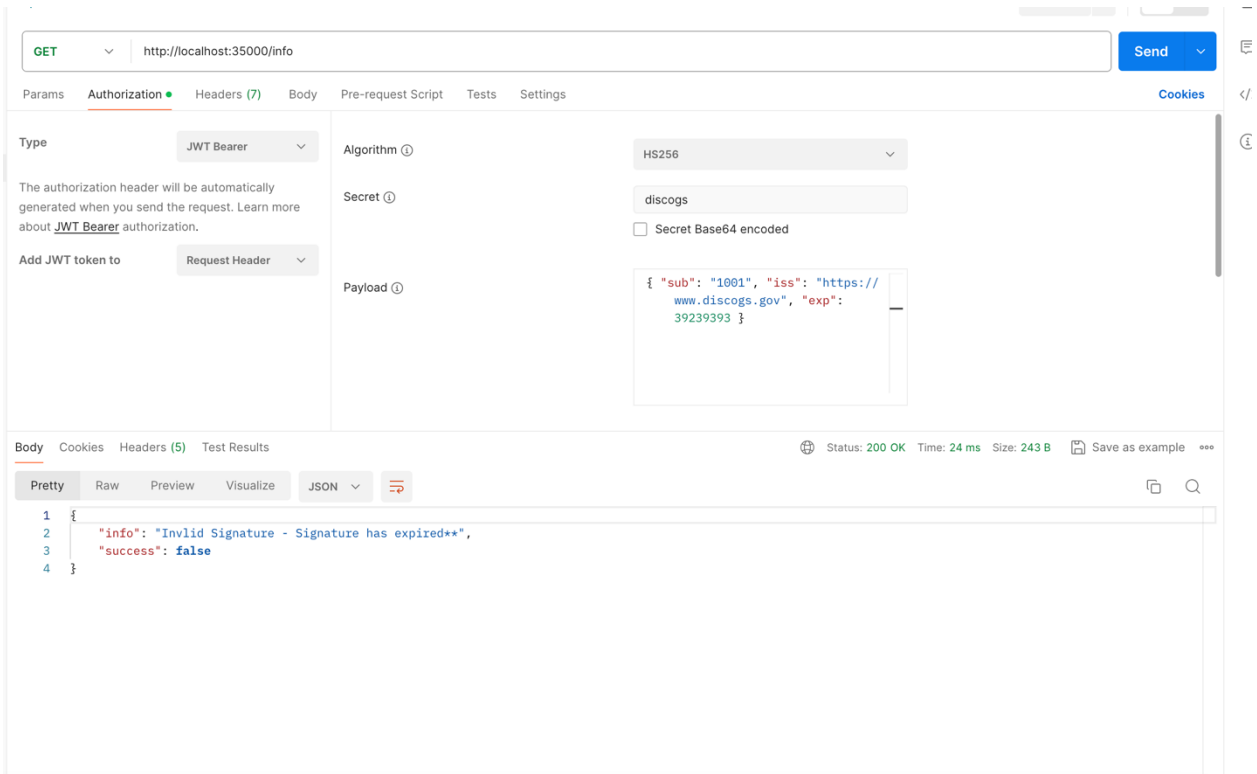
This endpoint creates the JWT token using the parameters (issuer, secret, algorithm, expiry) we pass and it creates the token. This endpoint also validates the new JWT token which is created against the any error related to JWT token. If there is any error it returns error.

It also checks the issuer is "https://www.discogs.com/

If there is wrong issuers, it will throw error



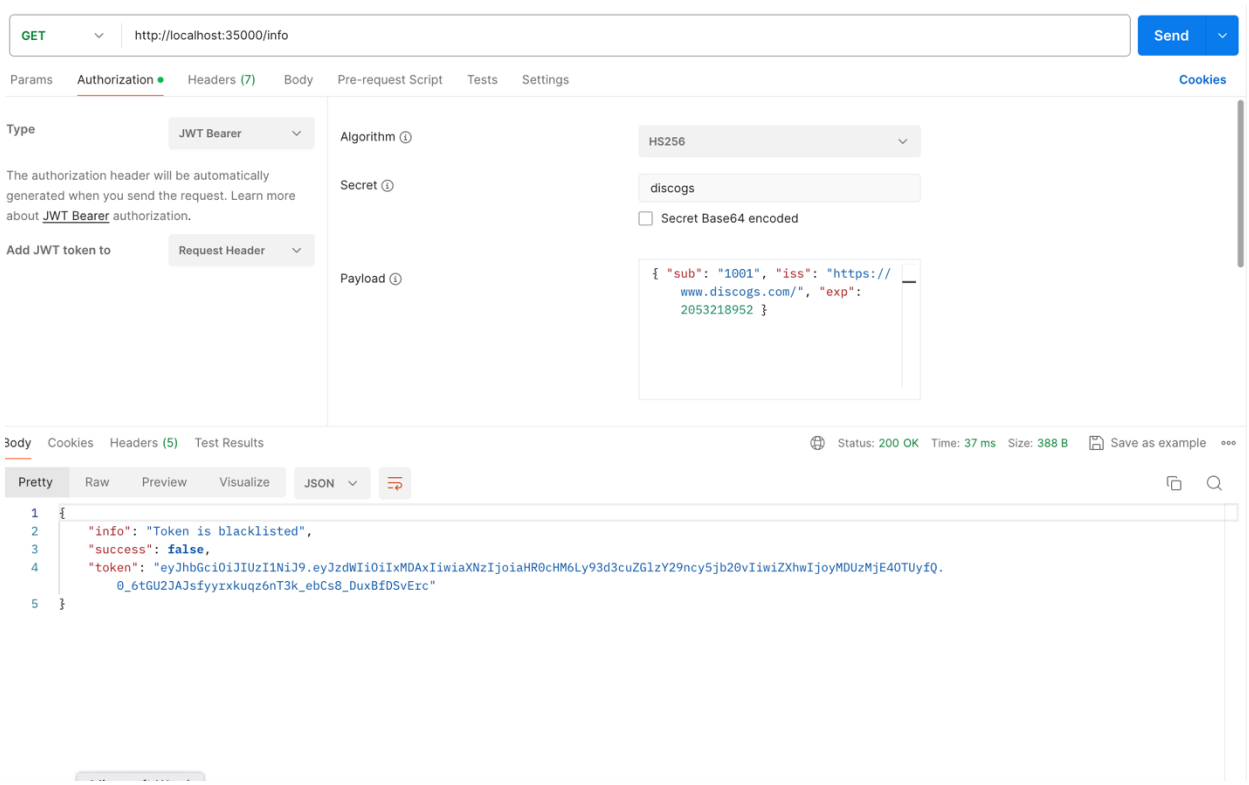
If token is expired, it will throw error



POST /blacklist

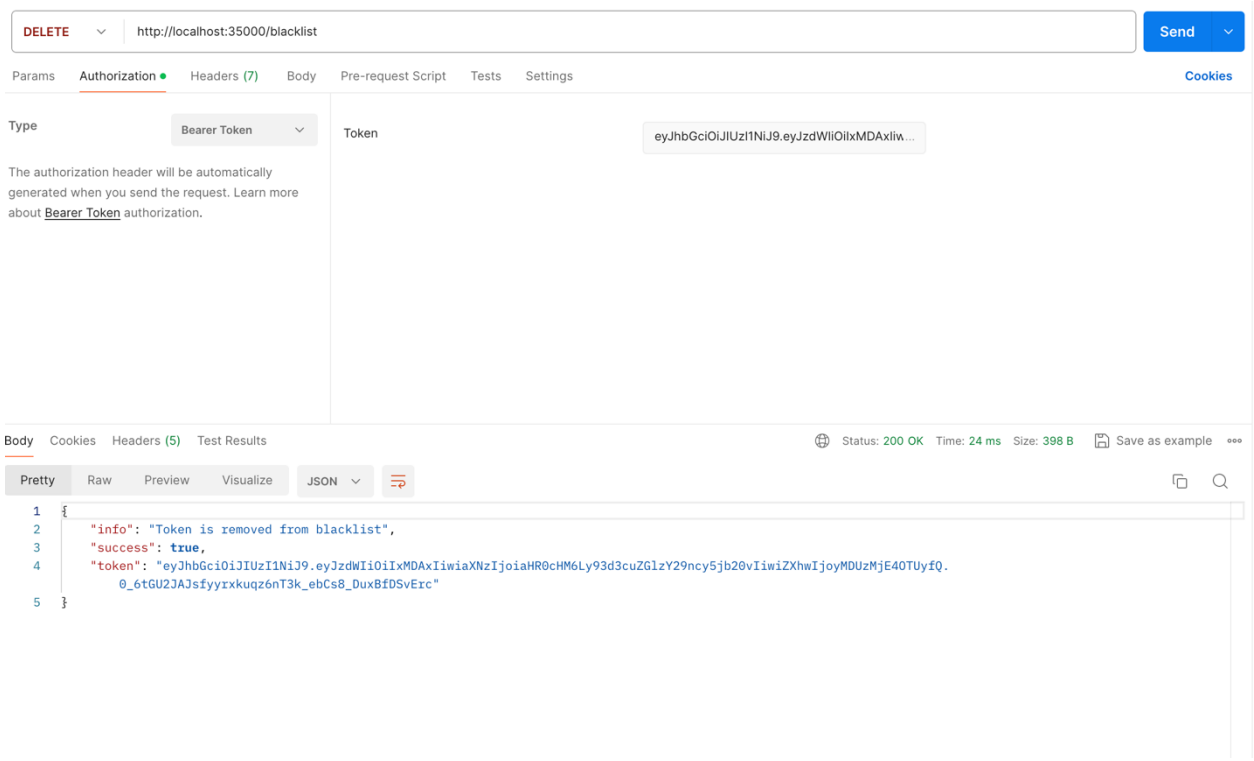
This endpoint gets the JWT token in the header and blacklist it. Internally it stores in the Set data structure so that we can check which token is blacklisted or not.

If you try to use the same JWT token on GET /info endpoint, it will throw error

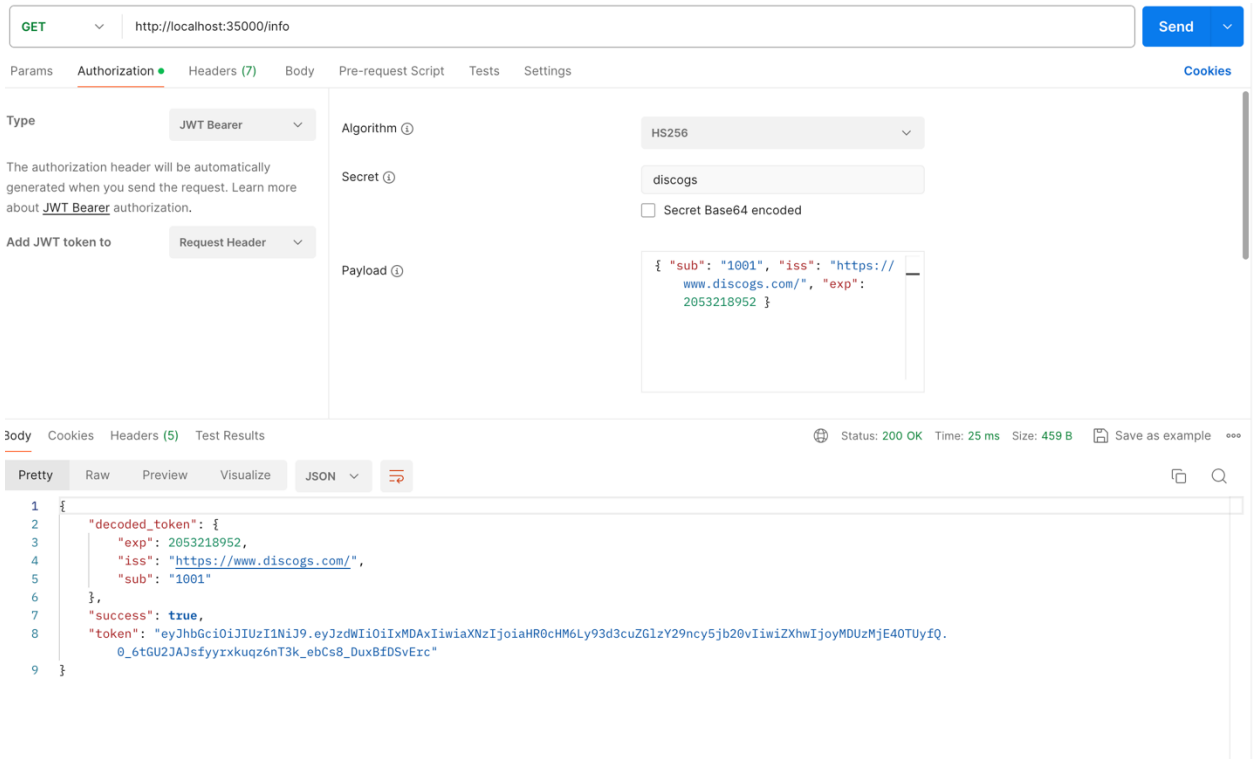


DELETE /blacklist

This endpoint removes the blacklisted JWT token from the Set data structure.



And now try the endpoint GET /info and you should see the token validated again.



Improvement:

There is definitely area of improvement here. Currently it stores all the JWT token in the Set data structure. If there is server reload happen, it will lose all the blacklisted tokens. For improvement, I can store these JWT token in the Sqllite or Postgres database and keep it in one table.

If any JWT token is blacklisted, it will contain an entry in table with Blacklisted=True and if that JWT token is removed from blacklist, I will update the table row with Blacklisted=False.
That way we have all the history of the JWT token blacklisted

Any feedback or criticism welcome. You can email me at keyurpatel80@gmail.com

Thanks