Skyddad.

It means "protected" in Swedish.

This program was written for Cryptology lesson that's given at Pamukkale University.

Installation

This project needs to Go (At least 1.13) to compile. Download from **here**.

Get the repo.

```
go get github.com/boratanrikulu/skyddad
```

Set your DB.

This project needs Postgresql DB.

You need to create a database named **skyddad**.

Set your env file.

You need to set database information to env file.

Set .env file to wherever you use the skyddad command or \${HOME}/.config/skyddad/.env

There is a env sample: here.

Usage

```
NAME:
Skyddad - A mail client that keep you safe.

USAGE:
skyddad [global options] command [command options] [arguments...]

COMMANDS:
mails Show all mails that is sent by the user.
send-mail Send mail to the user.
sign-up Sign up to use the mail mail service.
help, h Shows a list of commands or help for one command

GLOBAL OPTIONS:
--help, -h show help (default: false)
```

Testing

```
Terminal - fsutil@BoraT: ~/Documents/programming/CRYPTOLOGY/skyddad
File Edit View Terminal Tabs Help
 fsutil@BoraT: ~/Documents/programming/CRYPTOLOGY/skyddad
                                                            postgres@BoraT:~
 ~/Documents/programming/CRYPTOLOGY/skyddad  on master 1 ?1
                                                                                                             at 12:28:02
  ./skyddad send-mail --username "boratanrikulu" --password "12341234" --to-user "f" --body "Secret Message - I"
        From: boratanrikulu,
        Date: 2020-02-28 12:28:17.057172267 +0300 +03 m=+0.104922764,
        Body: [ Encrypted ] 026d7faf5912d01185b561180d5a073ed1bce211e2386b69cb4e6c8ea49474130b3e
~/Documents/programming/CRYPTOLOGY/skyddad  on master 1 ?1
                                                                                                             at 12:28:17
 ./skyddad send-mail --username "boratanrikulu" --password "12341234" --to-user "f" --body "Secret Message - II"
        From: boratanrikulu,
        Date: 2020-02-28 12:28:19.299853499 +0300 +03 m=+0.102573356,
        Body: [ Encrypted ] b4e763fcf42dd109cbb00293de7513b6a070cce0a6614af0ab0e3bc116489d6fa49da1
~/Documents/programming/CRYPTOLOGY/skyddad ) on master 1 ?1
                                                                                                             at 12:28:19
./skyddad mails --username "f" --password "12341234"
To: f
        From: boratanrikulu,
        Date: 2020-02-28 12:28:19.299853 +0300 +03,
        Body: [ Decrypted ] Secret Message - II
        From: boratanrikulu,
        Date: 2020-02-28 12:28:17.057172 +0300 +03,
        Body: [ Decrypted ] Secret Message - I
~/Documents/programming/CRYPTOLOGY/skyddad on master 1 ?1
                                                                                                             at 12:28:24
```

To-Do

- Add end-to-end encryption between users.
- Add encryption for user passwords.