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
                                                            x postgres@BoraT:∼
 ~/Documents/programming/CRYPTOLOGY/skyddad ) on master 13 !3 ?1
 ./skyddad send-mail --username "boratanrikulu" --password "12341234" --to-user "f" --body "Secret Message - I"
(√) Mail was sent.
        From: boratanrikulu,
       Date: 2020-02-28 12:12:25.827634957 +0300 +03 m=+0.094839906,
        Body: [ Encrypted Text ] 4eff0a9713c2ab8f0159c167f9c34b05b83b498fa9823088bf62a6824d65e8dfee30
 ~/Documents/programming/CRYPTOLOGY/skyddad > on master 13 !3 ?1
                                                                                                              at 12:12:25
./skyddad send-mail --username "boratanrikulu" --password "12341234" --to-user "f" --body "Secret Message - II"
(√) Mail was sent.
        From: boratanrikulu,
       Date: 2020-02-28 12:12:28.291710268 +0300 +03 m=+0.104577217,
        Body: [ Encrypted Text ] 3c550509c43627f67f202631897cb5b66a70babe47675168bd52babd572707b498ec4f
~/Documents/programming/CRYPTOLOGY/skyddad on master 13 !3 ?1
                                                                                                              at 12:12:28
./skyddad mails --username "f" --password "12341234"
To: f
        From: boratanrikulu,
        Date: 2020-02-28 12:12:28.29171 +0300 +03,
        Body: [ Encrypted Text ] Secret Message - II
        From: boratanrikulu,
        Date: 2020-02-28 12:12:25.827635 +0300 +03,
        Body: [ Encrypted Text ] Secret Message - I
 ~/Documents/programming/CRYPTOLOGY/skyddad on master 13 !3 ?1
                                                                                                             at 12:12:30 -
```

To-Do

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