



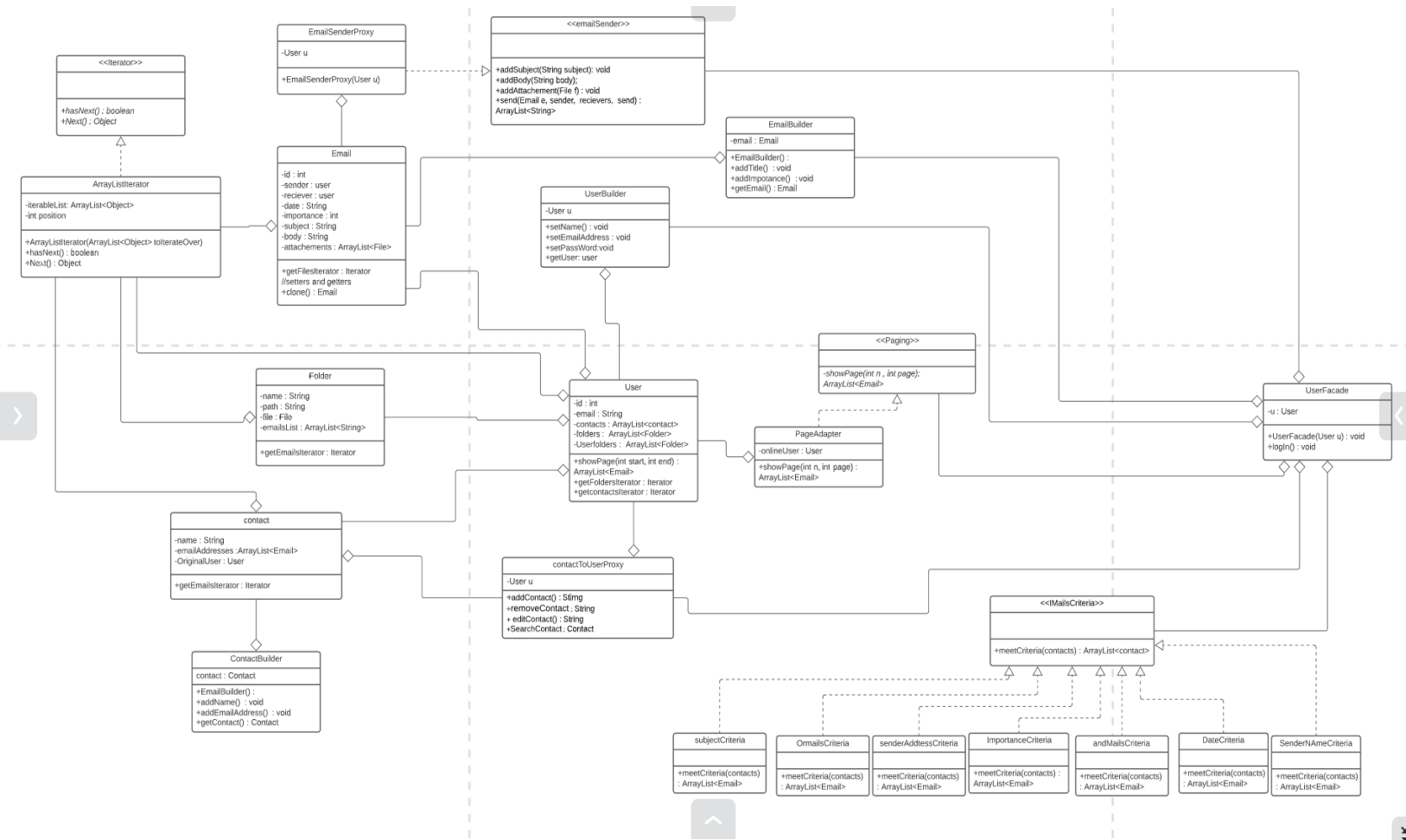
Mail server

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How we have applied design patterns

1. proto type : when we need to copy an email and send it to user or if we need to add it to another folder of user's folder

2.adapter : used to convert get the user the suitable page of emails where the user enters the page number and the adapter converts it into start and end index and get them from required folder



3.iterator : when we need to iterate over a list of users , emails , Folders so we get an iterator over them and iterate as we want

4. Proxy : when we need to deal with emails by sending or deleting or editing and contacts by crud and also with users with crud operations

5.filter : to filter emails according to subject and sender and importance and emailAddress and other attributes

6.facade : after we end our classes we need to collect them to the facade to ease the user's control to the program where he can call only one function that calls many functions

How to run the program

1.run the back end program from any spring boot ide port 8080

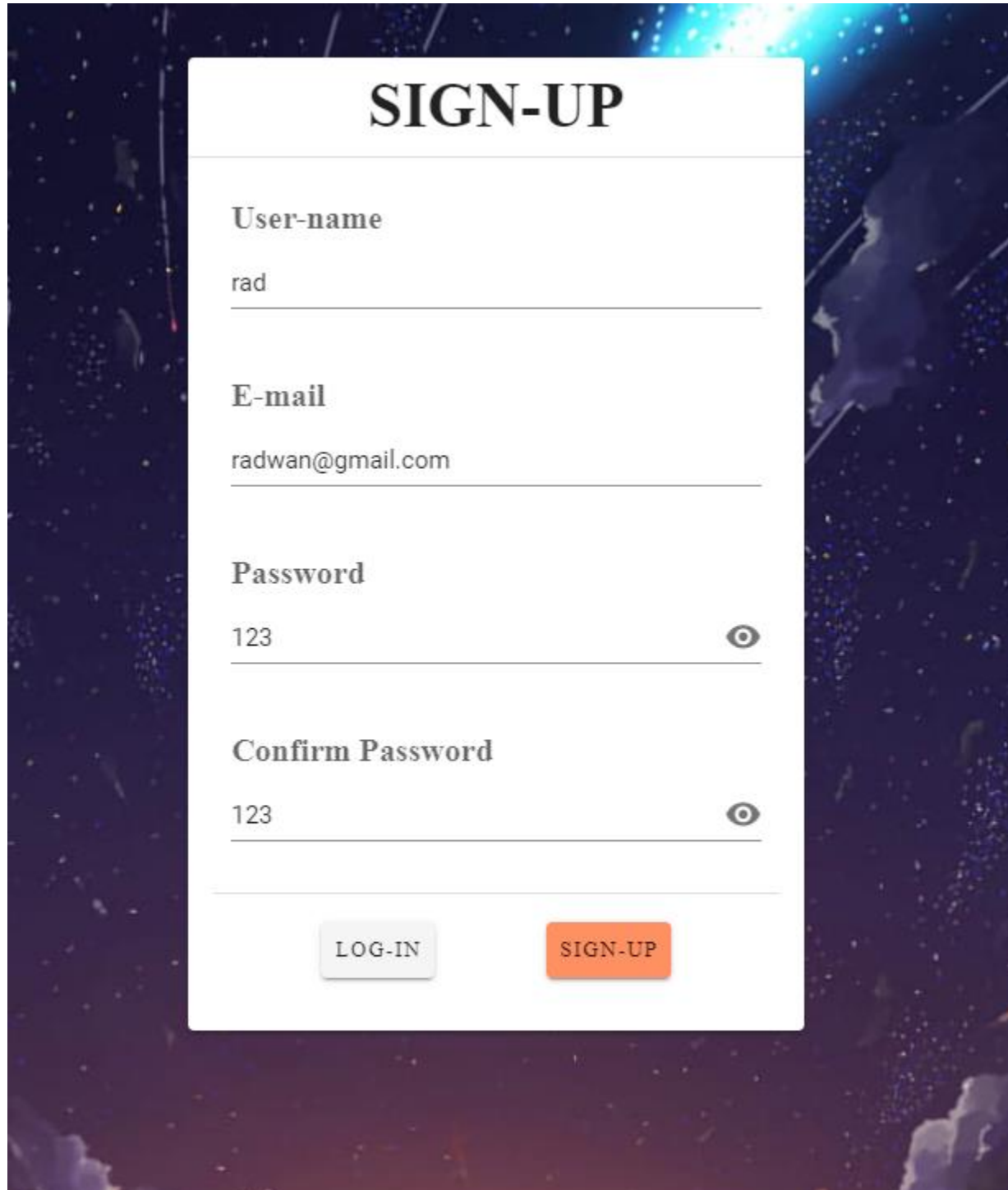
2.Open the file of front end from terminal and run:

```
npm run serve
```

Port 8081

Snap shots


Sign up




SIGN-UP

User-name
rad

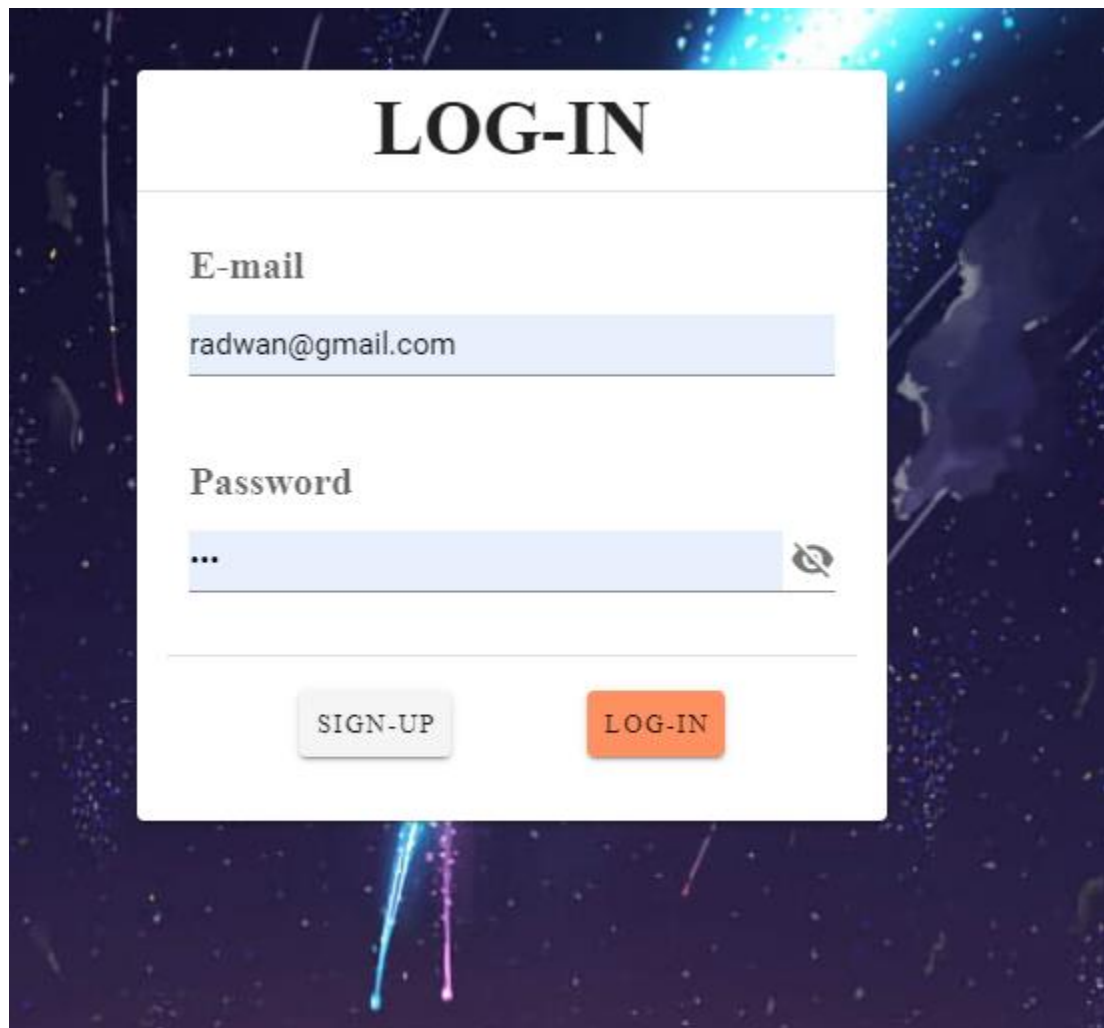
E-mail
radwan@gmail.com

Password
123 

Confirm Password
123 

LOG-IN **SIGN-UP**

Log in



LOG-IN

E-mail

Password

[SIGN-UP](#) [LOG-IN](#)

Compose email

welcome radwan

radwan@gmail.com

SEND NEW EMAIL

INBOX

SENT

TRASH

DRAFT

CONTACTS

Sending A New E-Mail

To*

Subject*

write your body of your email here

REMIT E-MAIL

CANCEL SEND

inbox

welcome radwan

radwan@gmail.com

SEND NEW EMAIL

INBOX

SENT

TRASH

DRAFT

CONTACTS

Inbox

> SORT > FILTER

From : mohamed@gmail.com
hello man
مرحباً يا رجل

From : mohamed@gmail.com
hello man
مرحباً يا رجل

From : mohamed@gmail.com
hello man
مرحباً يا رجل

From : mohamed@gmail.com
hello man
مرحباً يا رجل

From : mohamed@gmail.com
hello man
مرحباً يا رجل