



# *Manual of Mail server*

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## Team :

زياد حماده عبد الهادي العبد : 1801022

زياد يديع السعيد البنا : 18010717

خالد سعد محمد الطواجني : 18010594

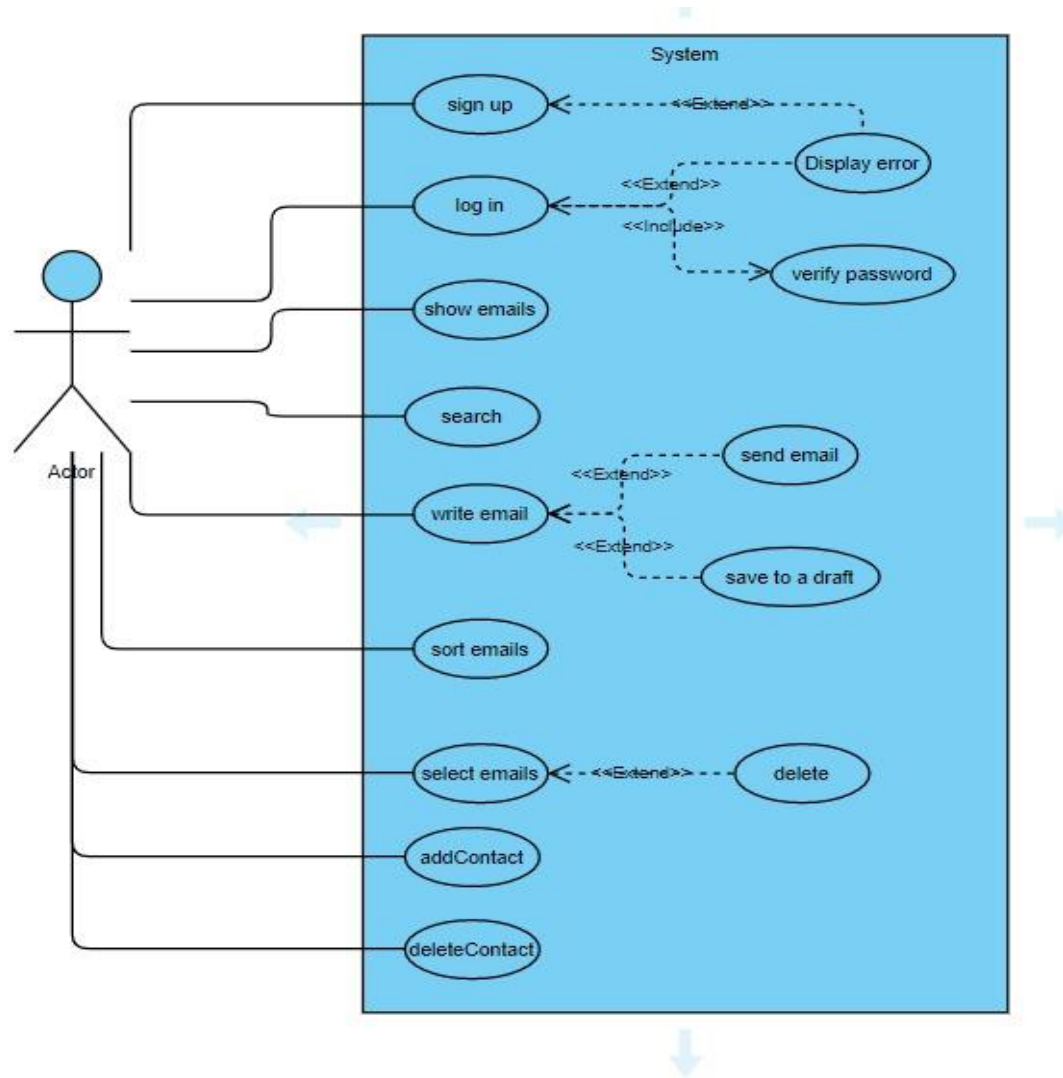
عمر احمد سعيد ريجان : 18011105

# How to run:-

- Run front-End server
  1. Choose (front-end) folder using Cmd
  2. Npm run serve
- Run Back-End server
  1. Run the project

# Uml Diagrams:-

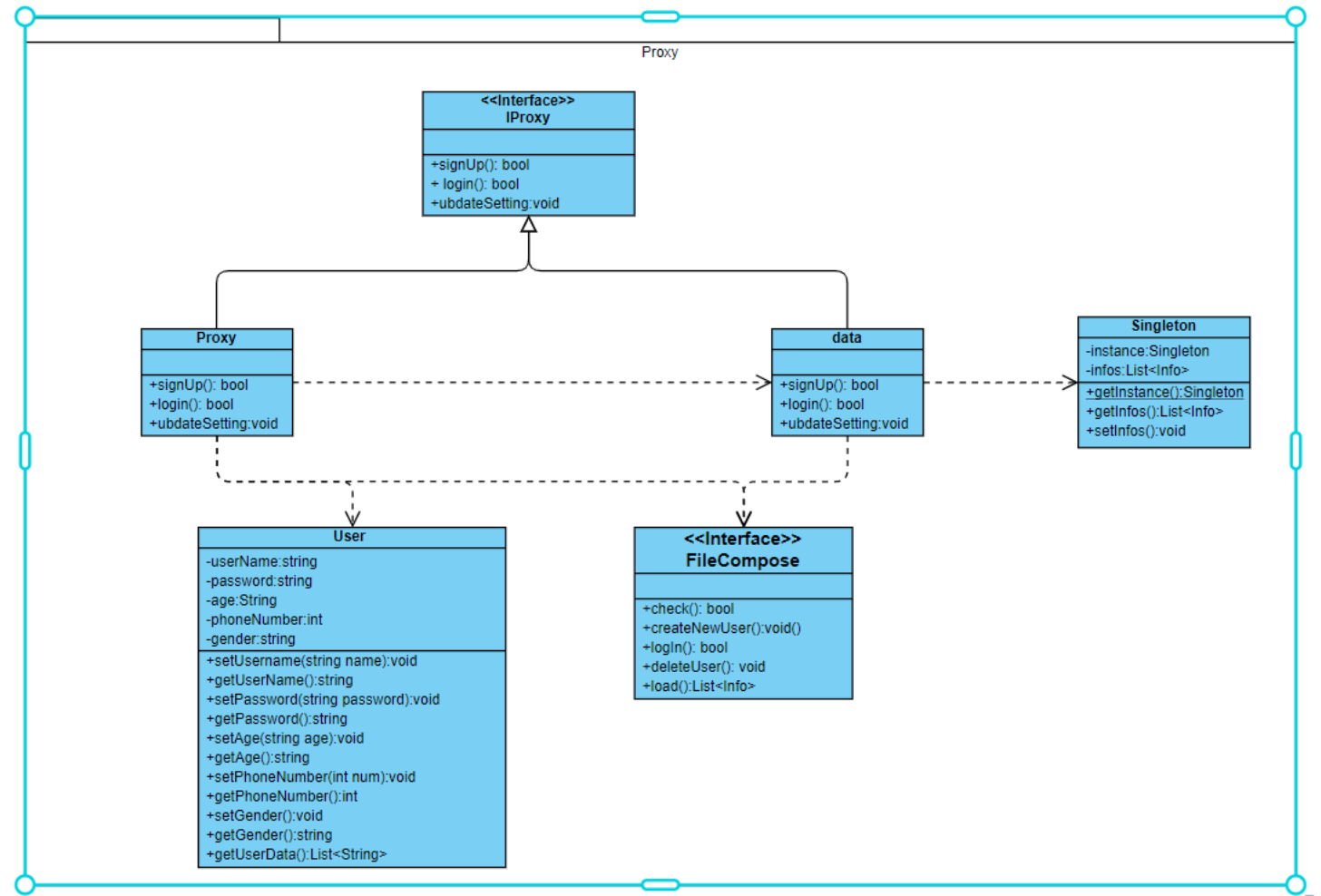
- Use case diagram:-



# Design patterns Used:

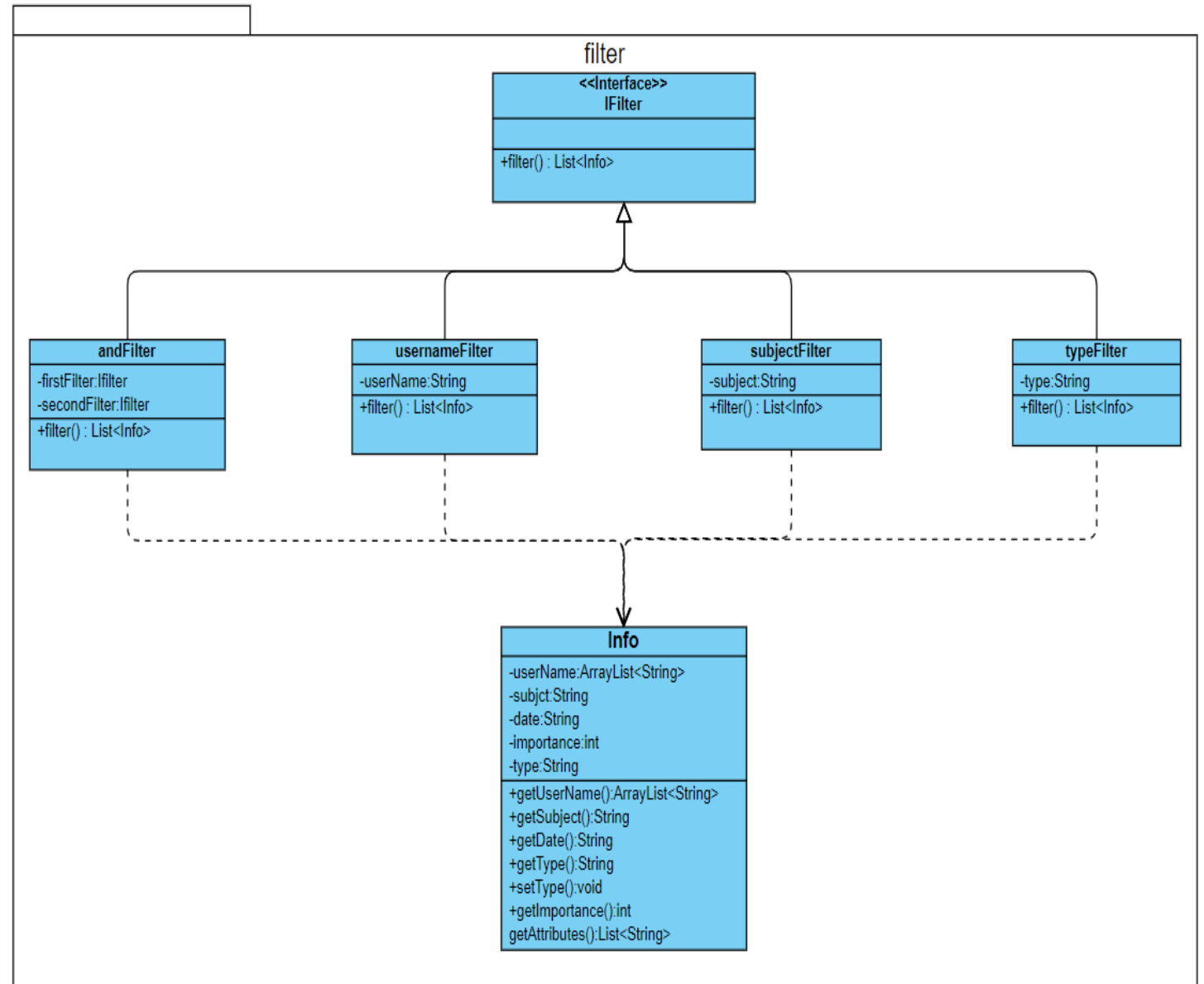
## 1. Proxy design pattern

- Client check if the email and password is true in proxy before creating new object from real class to log in or sign up



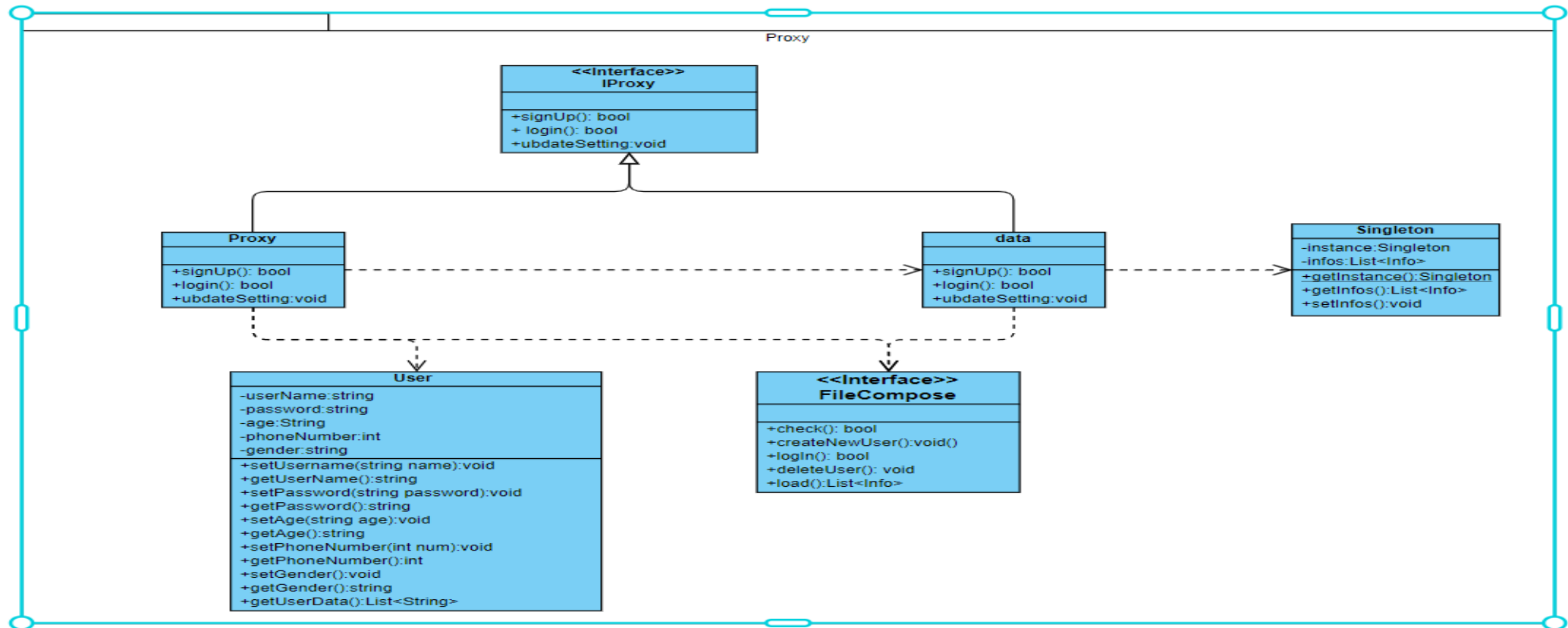
- 2-Filter design pattern :

It is a design pattern that allows developers to filter a set of objects using different criteria condition like username ,subject and date and chaining them in a decoupled way through logical operations.

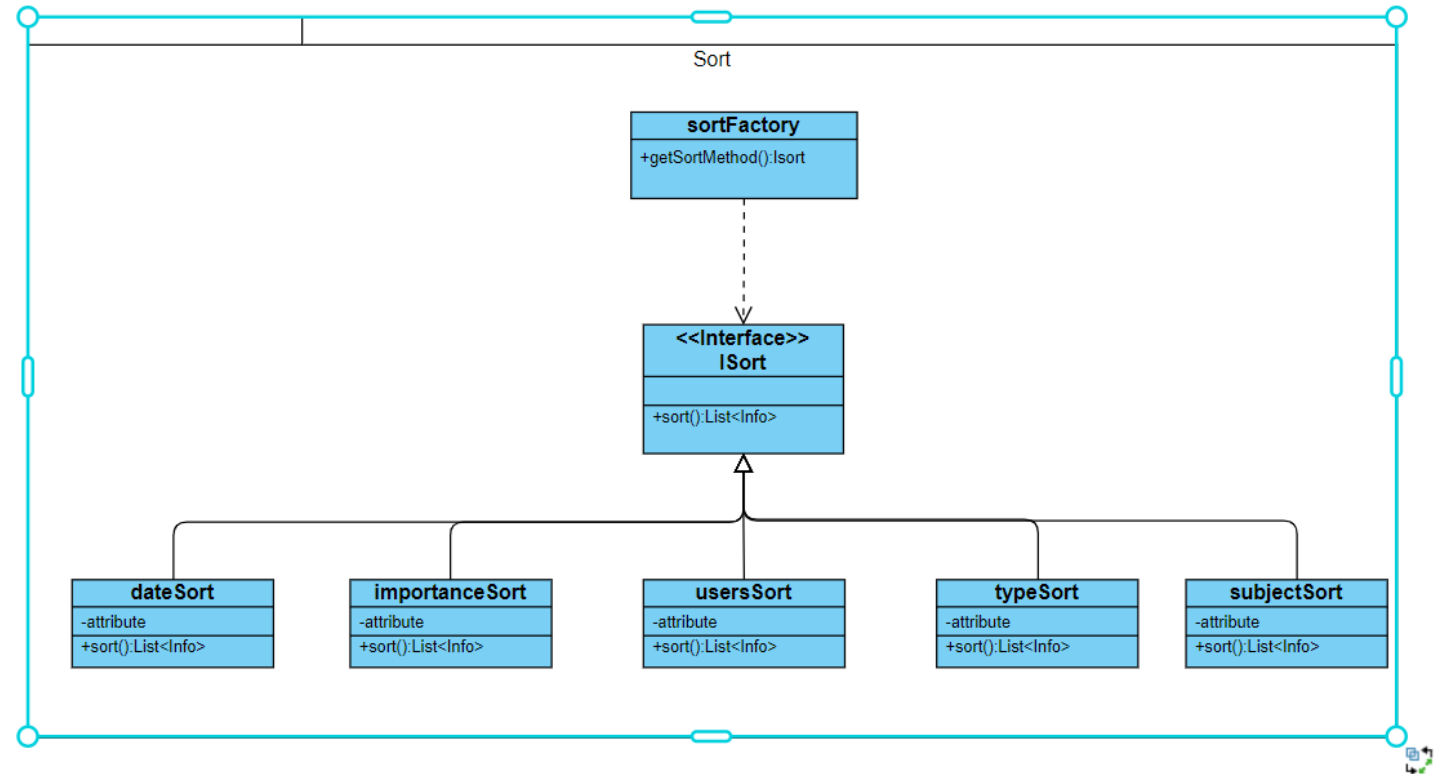


### 3-Singleton design pattern

- This pattern involves a single class which is responsible to create an object while making sure that only single object gets created. This class provides a way to access its only object which can be accessed directly without need to instantiate the object of the class.
- We use it to get all mails when user log in successfully and use the same list of mails in all classes



# 4-Factory design pattern

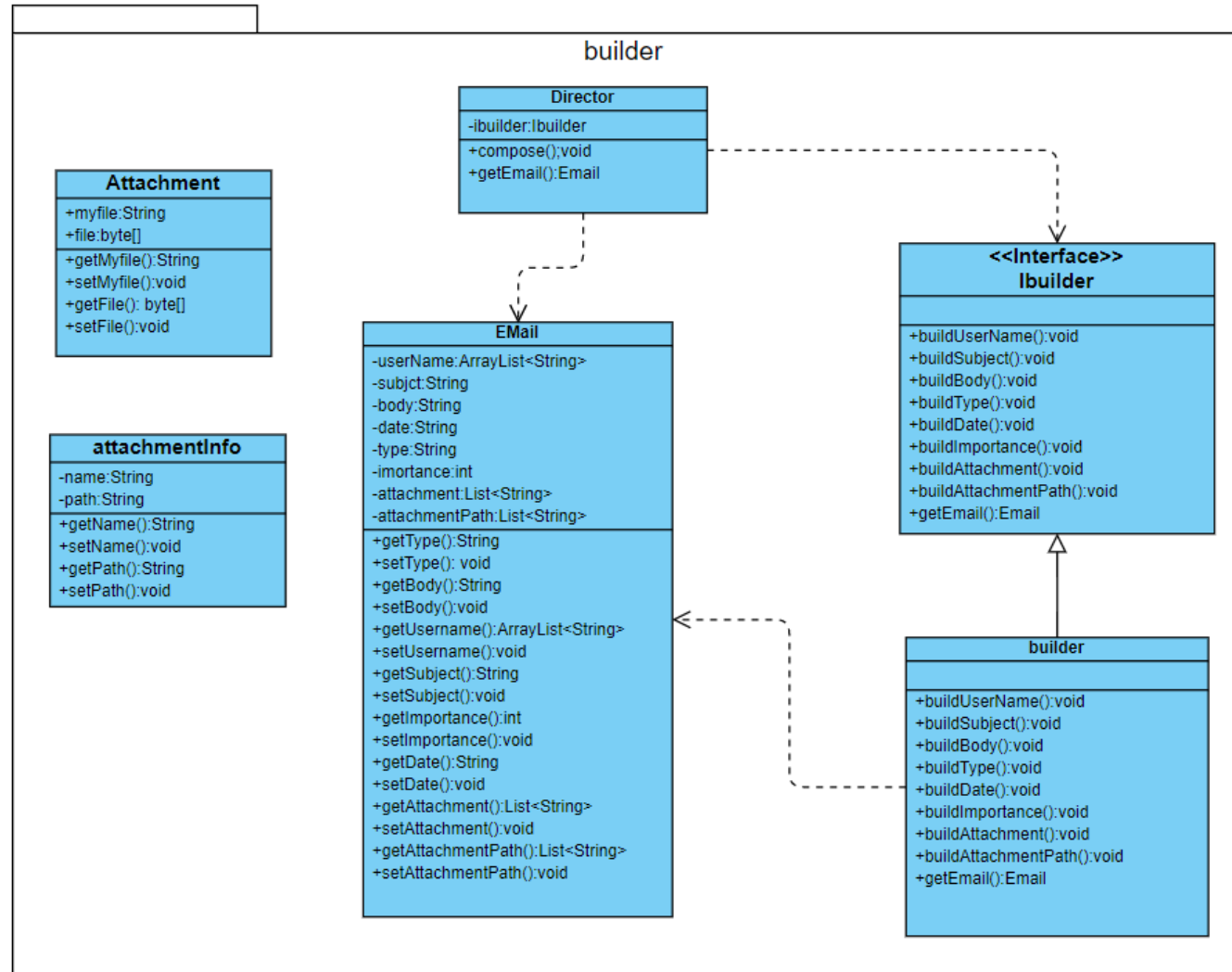


- There are different kinds of sort like username , date and subject
- We use sort factory to get the kind of sort we need



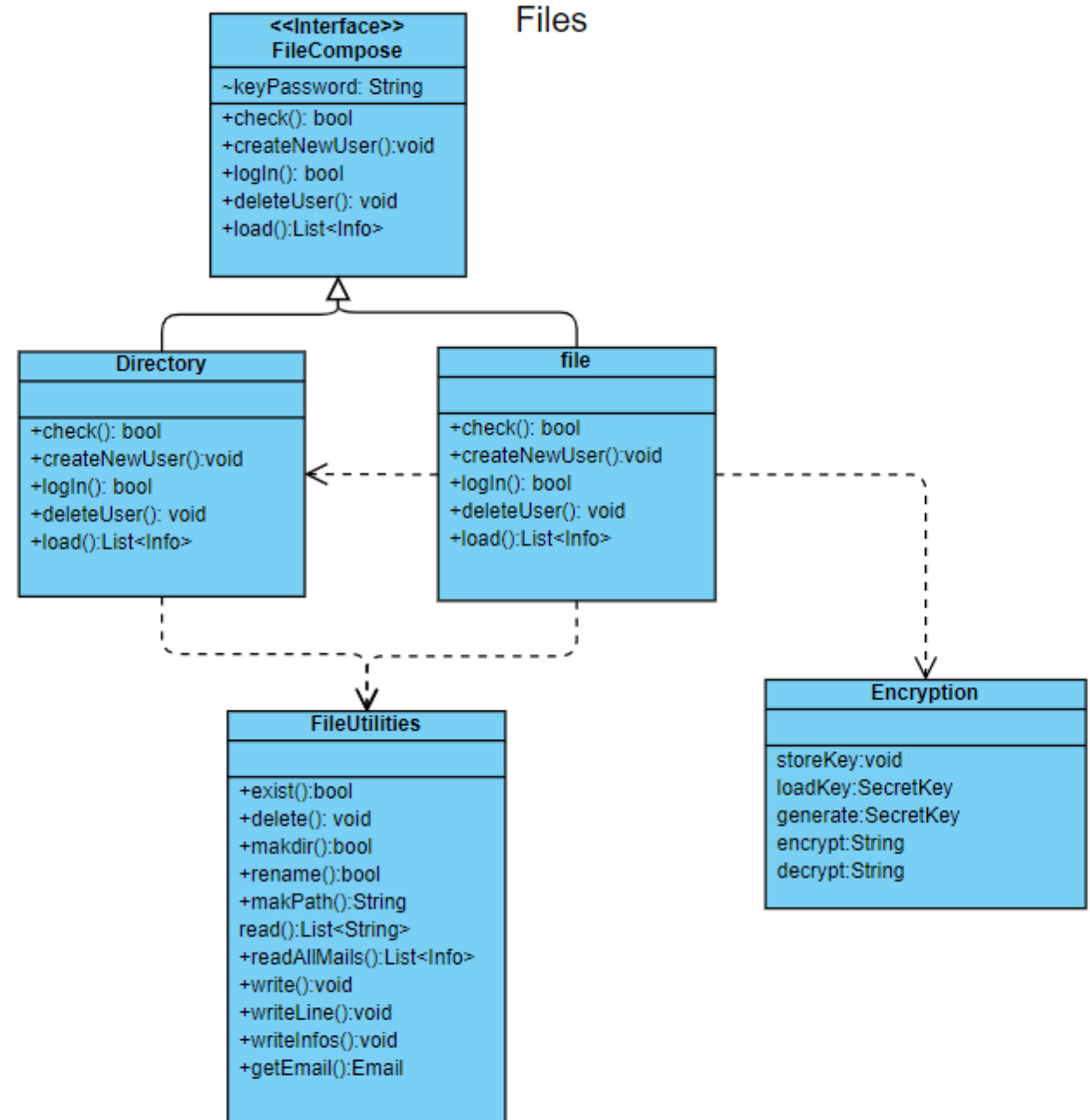
# 5-Builder design pattern

- Separate the construction of a Mail from its representation So that client can not know how mail is built

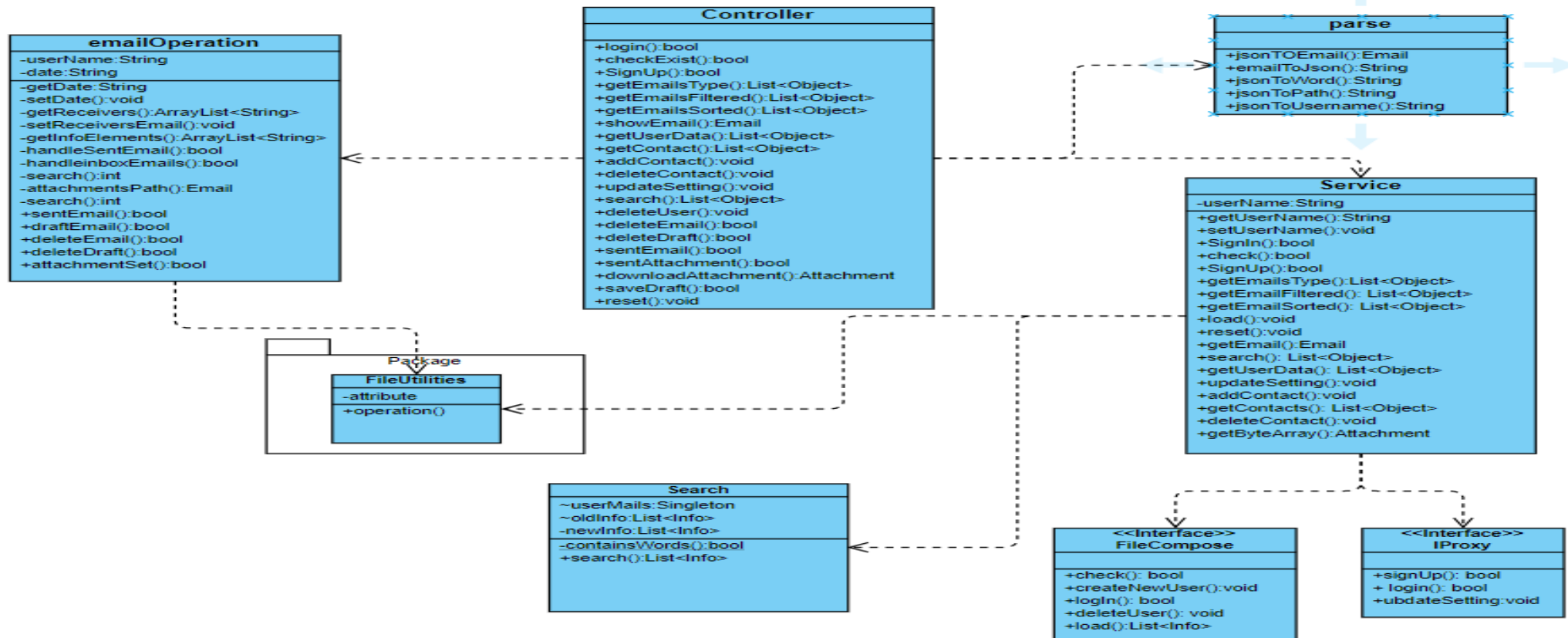


# 6-File composite design pattern

- Used to create Directories and files(index,data) to save users and mails of each users



# 7-MVC design pattern



# snapshots of UI

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- Sign in page

← → ↻ localhost:8080/#/

## Sign in

Email:

Password:

[Sign in](#)

[You haven't an account? create one now.](#)

Activate Windows  
Go to Settings to activate Windows.

# •→ Sign up page

localhost:3000/#/sign-up

# Create a new account

**Email:**

**Mobile phone:**

**Password:**

**Retype password:**

**Gender:**

**Age:**

[Sign Up](#)

[You already have an account? sign in now.](#)

Activate Windows  
Go to Settings to activate Windows.

- Profile page

localhost:8080/#/signedIn

Settings Log out

Filter choose one Type to filter Filter Sort choose one Sort Search Type to Search Search

Send email

Inbox Sent Trash Draft

Contacts

# Inbox

Email	Subject	importance	Date	Actions
zeaid.allbana@gmail.com	test 1	1	2020-12-26_19.12.29	Show Email X

- Send Email page

←

→

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localhost:8080/#/compose

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⚙️

🎵

🅑

⋮

close

Subject

subject

importance

Urgent

▼

To Send

To send

Your Contact

Add To Receivers

Choose Files

No file chosen

Message

Message

Clear List

Activate Windows

Go to Settings to activate Windows.

- Setting page

localhost:8080/#/settings

# Edit account

zeaid.allbana@gmail.com

Mobile phone:

New password

Retype password

Gender:

Age:

Activate Windows  
Go to Settings to activate Windows.



- Contact Page

# Contacts

[Go to main page](#)[Add to contacts](#)

Contact	Actions
There are no records to show	

# Assumption:-

**1- You MUST NOT log in with more than one user at the same time, you should log out first and try to log in with another One**

**Note: Handling this case wasn't required according to TA**

**2- the username is the same as the email , so if you are asked to enter the username or email , they are the same**

**3- if you try to send a new email , and instead of clicking send you click “close” , the email automatically moved to draft folder and all attachments in it are completely ignored .**

**4- if you are in the draft folder , you can click edit email and now you have 3 choices , if you edit the email and then you click send , the email removed from draft and is sent successfully , if you edit the email and then you click close , the old one removed and the new one take its place in draft folder , finally , if you edit email and then click “X” button in the upper right corner , now the email is removed from draft folder**

**5- you can send the email to multiple users by typing their usernames and adding them to the list before sending**

**6- if you search on something , you will get all emails that contain this word or sentence in the body ,the subject or the username .**