Email

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Description:

E-mail service Application offer a big number of features such as sending and receiving mails, deleting and drafting mails, viewing contacts, adding and deleting contacts, sending attachments and a lot of other features.

Features:

- -sending, deleting, drafting mails
- -viewing inbox, sent, draft and trash folders
- -adding, deleting, and viewing contacts
- sending and receiving attachments
- sorting mails by data, read and unread, level of importance
- searching of mails by any keyword in the mail
- -folder of important messages

Design Pattern Used:

- façade design pattern: where there is the UserService class that simplifies access to many other classes such as: Mail, User, ConcreteAccountManipulation, AttachmentsManipulation
- Singlton design pattern: we applied singlton design pattern on UserService class where there should be only one service object that supports the backend

- Template methode design pattern: we applied this pattern on AbstractAccountManipulation and ConcreteAccountManipulation classes, where the template method (accountExists()) is defined in the abstract class to be used by any potential subclasses such as in ConcreteAccountManipulatin class
- Interface design pattern: is a basic design pattern that is used to define an interface to UserService class
- Delegation design pattern: is a basic design pattern that is used inside Façade design pattern, where the use of many classes such as Mail, User is delegated to the UserService class
- Factory design pattern: is a basic design pattern that is used to make a copy of the message in draft to continue sending your message.

Technology Used:

Angular for front end.

Spring boot for back end.

A full list of the steps required to run Application:

This Application require angular and spring boot installation

Install the Angular CLI

npm install -g @angular/cli

npm install file-saver

Create a workspace and initial application

ng new my-app

Run the application

cd my-app

ng serve --open

spring boot installation

Follow This link:

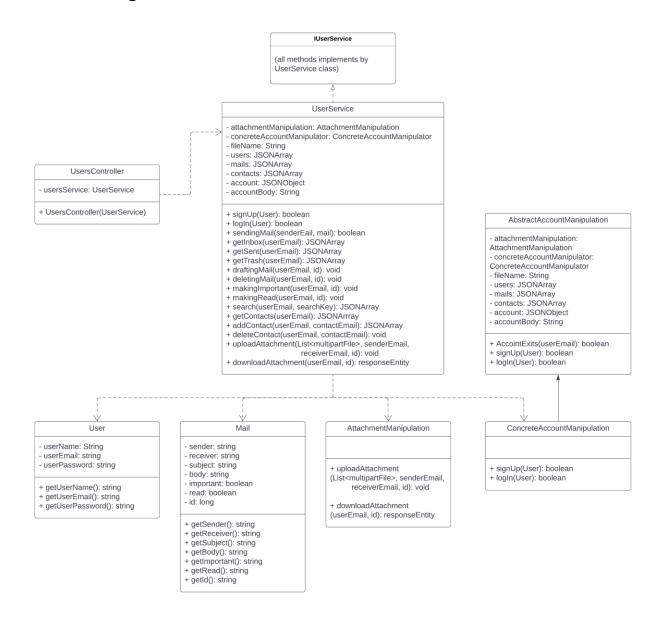
[https://spring.io/guides/gs/spring-boot/]

run server of spring boot

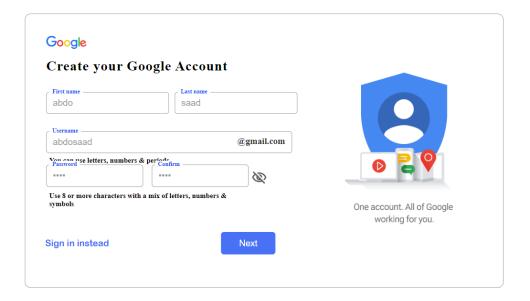
Then in command line type:

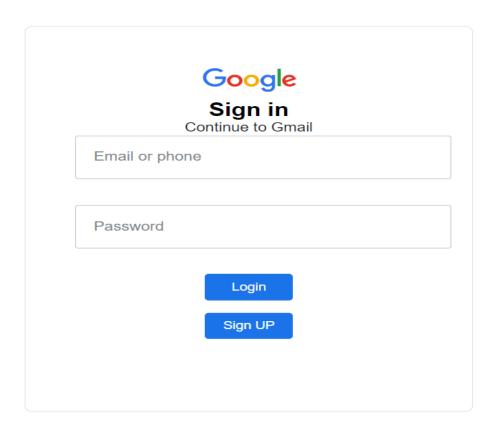
ng serve -open

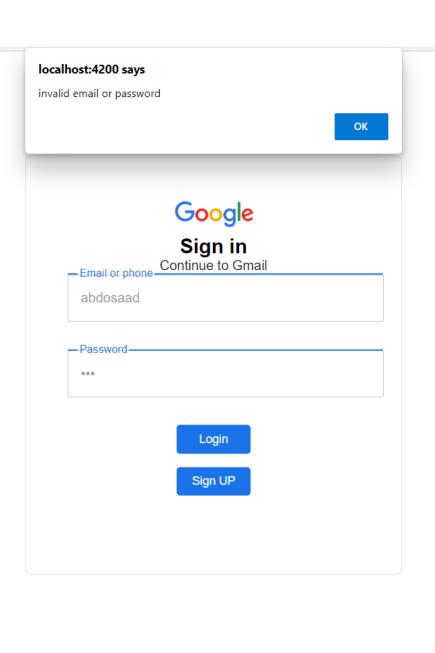
UML Class diagram:

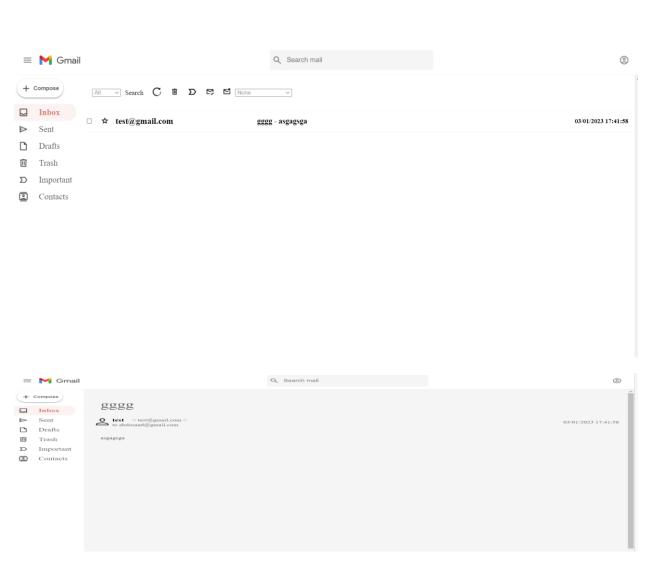


Snapshots of the application:









Delete the message

