Lab 4: A Simple Web-Based Email Program

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1. How to run the code:

- Run the Back-End program on local host *https://localhost:8080/* via Spring boot application
- Run the Front-End program on local host *https://localhost:4200/* via Angular application

2. The Design Patterns used

- **Delegation Pattern**
  - ✓ Relation between services and controllers
  - ✓ Relation between services and models
  - ✓ Relation between some services such as *userFileService* and *MessageService*
- **Interface Pattern**
  - ✓ Relation between *MessageCriteria* class and *MessageService*
  - ✓ Relation between *UserCriteria* class and *UserService*
- **Prototype Pattern**
  - ✓ Both models objects can be cloned
- **Filter Pattern**
  - ✓ Applied in searching for messages and contacts
- **Marker Interface Pattern**
  - ✓ in cloning objects , and serialization and deserialization of Json Objects

3. The Design Decisions made

- Sending messages can be from one user to multiple users
- User can use only one custom folder to drag the needed files inside
- In searching for messages by "to" attribute if you put multiple users, you will get messages to either of them (inclusively)

4. User Guide And UI Snippets

- ## Sign-Up & Sign-In

  Once you have opened the application, you will encounter the following page

Email

- ✓ **If you are already a user** to our application, **fill the required data** correctly and click on **Sign-In**

- ✓ **If you are a new user** to our application, use the **sign-up button** and you will be redirected to the following page to register and **get your account**, **but** you will still **need to sign-in**
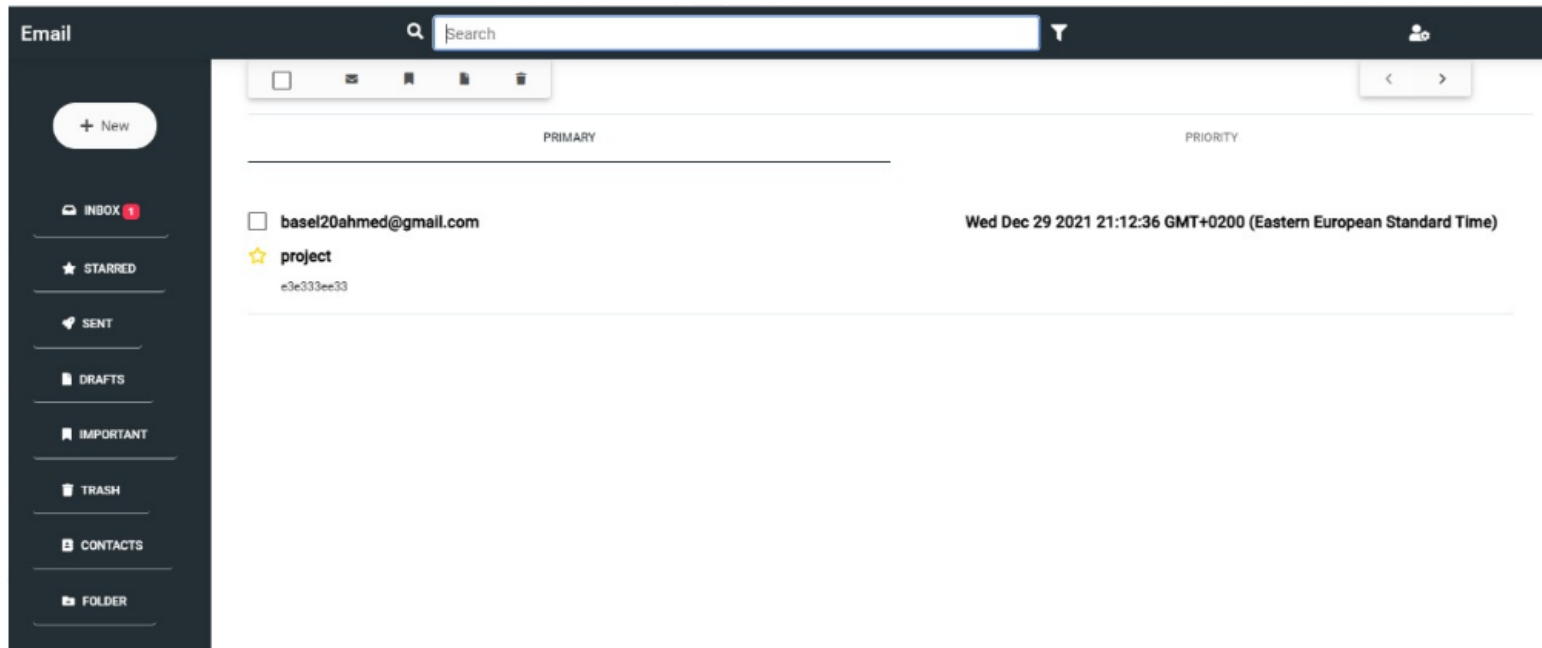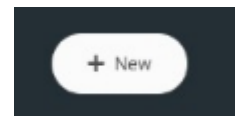
- **The Profile Page**

- **Sending new message**
  - ✓ if you want to send a message to someone, click on *+New* on the top left corner and message-box will pop-up to fill
  - ✓ you can send any type of attachments you want using the attachment icon in the message-box bottom
  - ✓ after writing the message, you can decide to send it or save it in the drafts folder
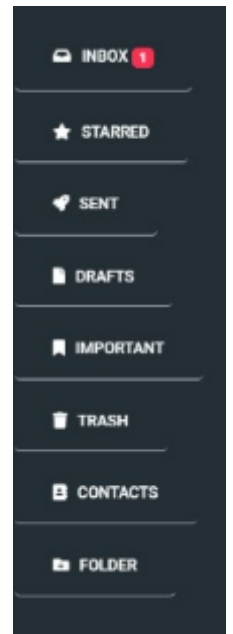

- **Searching**

  There is two kinds of searching provided:
  - ✓ if you type what you are searching for **in the search text box** at the top of screen , **default search** is applied which will **bring any message** from the **the inbox, sent ,or even the trashed messages** that somehow matches what you are typing **in body, receiver, sender, subject , or even the date of sending the message**

  - ✓ **if you apply the filter search** using the flask icon on the right of the search text box, a **message-like form will pop up ,** and you should enter one or more value to filter messages through

- **<u>Navigating Messages</u>**
  - ✓ You can choose any category from those on the left side of screen, and the required messages will appear **but on many**
  - ✓ You have only one custom folder called ***Folder*** where you can keep what you want from the messages rather than the other provided categories
  - ✓ You have a contacts button where you can keep some other user contacts(you can add users, delete them or even edit their names)
  - ✓ **You have to double click the message in this list** in order to be shown

☐ basel20ahmed@gmail.com	Wed Dec 29 2021 21:12:36 GMT+0200 (Eastern European Standard Time)
☆ project	
e3e333ee33	

  - ✓ to **star** a message, **check the golden star** next to it
  - ✓ you can also **select** some messages, by **checking the square box** on its top left corner then you can move the selected to a certain category

- **<u>Log-Out</u>**
  - ✓ **on the top right corner** click on the icon and a menu will appear so that you can choose to log-out

5. **<u>The UML links</u>**

   https://drive.google.com/drive/folders/12KJYuVdg5ybQKHl5KD rD6_okn8gn6FNC?usp=sharing