



MasaiMail app

Build Rest API for MasaiMail Application

- User should be able to send and receive mails
- User should be able to send a mail to many persons at once
- User should be able to star & delete mails
- User should be able to Register to Masaimail App
- User should be able to login to Masaimail App

User should have following fields-

User	
<u>Email (PK)</u>	String
firstName	String
lastName	String
mobileNumber	String
dateOfBirth	LocalDate

Rest API for User Resource

HTTP Method	URL Path	Status Code	Description
POST	/masaimail/register	201(CREATED)	Register a User
POST	/masaimail/login	200(OK)	Login a User
GET	/masaimail/mail	200(OK)	Check all mails
GET	/masaimail/starred	200(OK)	Check all starred mails
PUT	/masaimail/user	200(OK)	Update User

Rest API for Email Resource

HTTP Method	URL Path	Status Code	Description
POST	/masaimail/mail	200(OK)	To send mail
POST	/masaimail/starred/{id}	200(OK)	To starred mail
DELETE	/masaimail/delete/{id}	200(OK)	To delete a mail

Task - 1

- Build Rest API for Email, User
- Use MySQL database
- Use Response Entity depending upon the output.

Task - 2

- Identify the Relationship between the User and Email and Implement that Relationship
- Use DTO wherever required
- Complete the All User and Email APIs

Task - 3

- Implement Exceptional Handling in the project

- Handle Custom Exception
- Create Custom Error Structure Response for Client
- Create Global Exception Handler to handle the exceptions globally: All other exception handled in this single place
- Swagger Rest API Documentation
- Add Validations
 - First Name must not contain numbers or special characters
 - Last Name must not contain numbers or special characters
 - Mobile number must have 10 digits
 - Password should be alphanumeric and must contain 6-12 characters having at least one special character, one upper case, one lowercase, and one digit.
 - date of birth should not be in future

Task - 4

- Implement Authentication (Verifying the User credentials)