

Table of Content:

Functional Description	1
Signup:	1
Login:	2
Forget Password:	2
Chatting	2
Security Requirements	2
Other Requirements	2
ERD Diagram	3
ERD Table Diagram:	3
Class Diagram:	4
Readme File:	4
Test Cases:	4
Login Cases:	5
Signup Cases:	5
Messaging Cases:	6
Forget Password:	7
Reset Password:	8
Logout:	8
Delete Message:	9
Update/Edit Message:	10
Read Messages:	10
Trello Board:	11

MatterMost Chatting Application:

Functional Description

Our main objective is to make a simple chat application that will allow the sender to send a message to the receiver(one to one chat). It is compulsory that one must be authenticated as a user before you can make use of infrastructure made available by mattermost. After valid authentication the user(sender) can send a direct message to the receiver, update/edit a single message sent to receiver, can delete a single message sent to receiver and can read/retrieve all sent messages with receiver.

Signup:

1. Users will be able to create an account.
2. Users have to sign up with first-name, last-name, email, dob and password.
3. Users have to sign up with name, email, phone no and password.
4. After adding data and proper validation users will be successfully registered.
But if the user entered the invalid email and password then the user will not be successfully registered and will be returned back to the signup page.

Login:

1. Users should be registered.
2. Users have to login with email and password.
3. If the user entered the valid email and password then access token will be assigned to that user.

Forget Password:

1. Users should be registered.
2. Users have to login with email and password but if the user forgets the password the system will send a recovery email to recover password with a specific time expiry of that email.

Chatting

1. Sender can search the receiver to whom he\she wants to send the message.
2. After selecting the receiver now the sender can write a text message or can send it in the form of audio.
3. Senders can delete the single message sent to the receiver.
4. Senders can update/edit the single message sent to the receiver.
5. Senders can read all the messages sent to the receiver.

Security Requirements

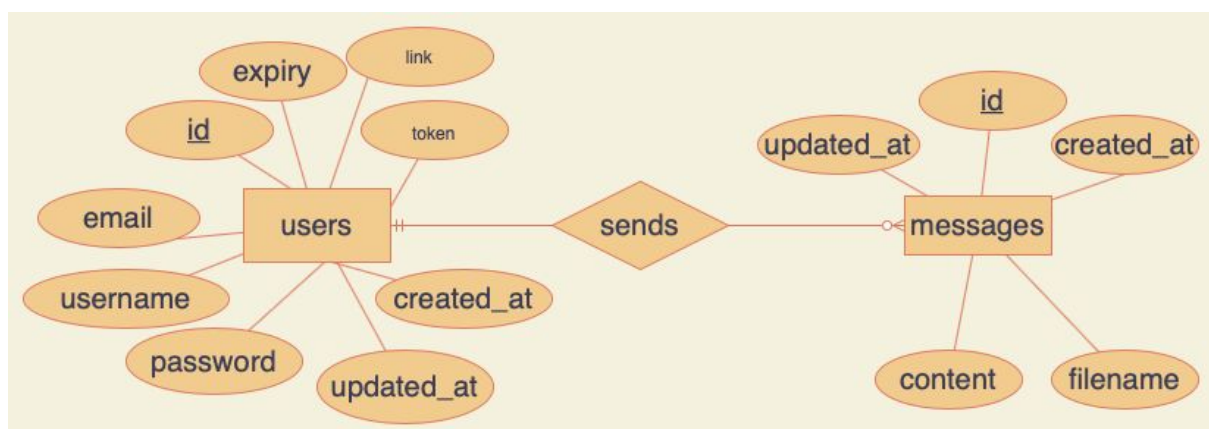
1. System includes all necessary login encryptions and authentications of user's data.(Authentication token, hash password e.t.c)
2. System must be secure and can be trusted with the user's personal data.(SQL INJECTIONS)

Other Requirements

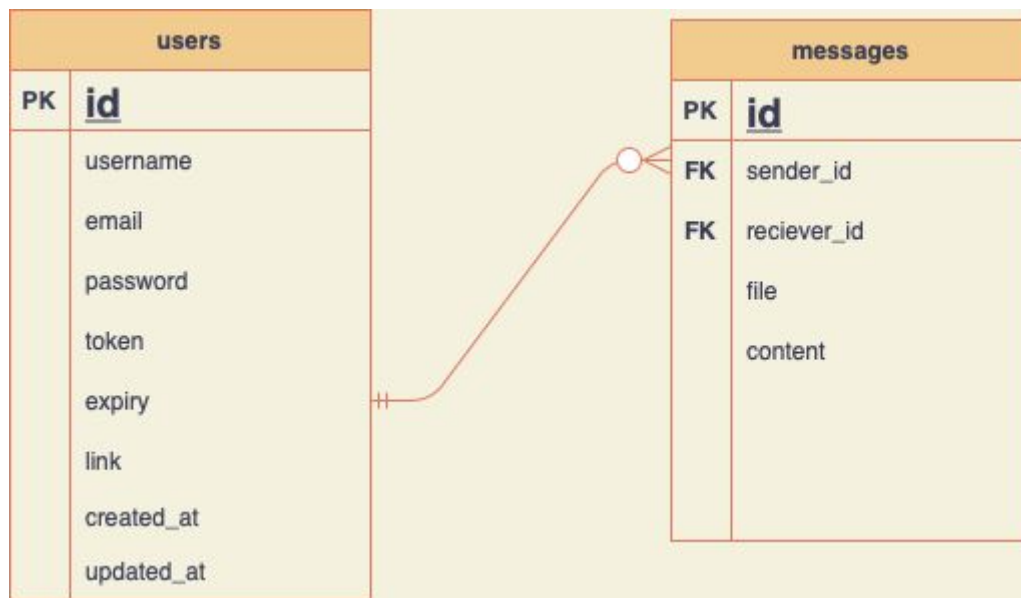
The additional requirement includes:

1. Proper error messages' handling.
2. Users can easily identify where the issue is.

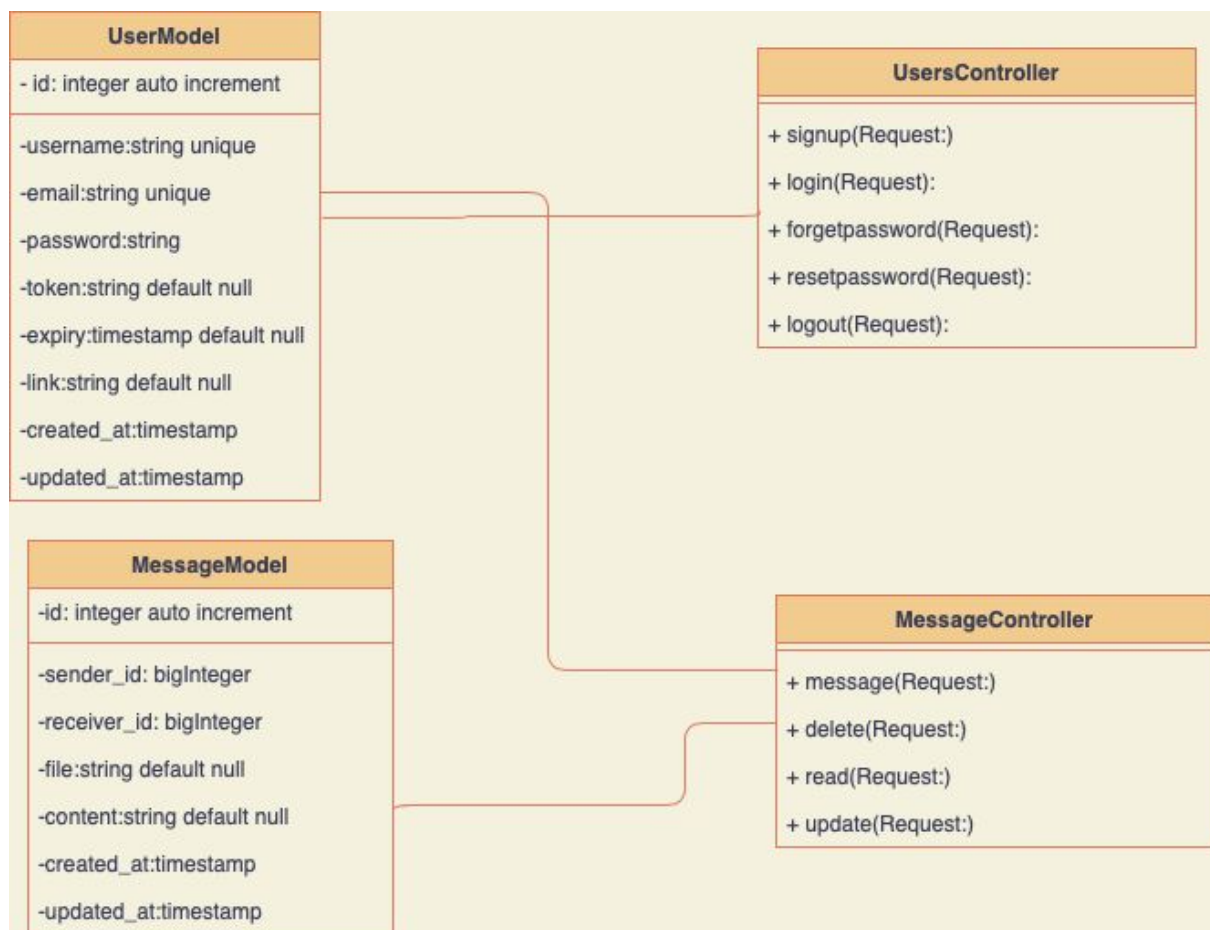
ERD Diagram



ERD Table Diagram:



Class Diagram:



Readme File:

Open the project folder to view/check out the Readme file.

Test Cases:

Link of the test cases noted in google sheet.

<https://docs.google.com/spreadsheets/d/1dojd4HS8r08NVM9lrBffuo1h-1en2nYtcGcRyKnhG4o/edit?usp=sharing>

Login Cases:

The screenshot shows a test runner interface with the following components:

- Header:** Collection Runner, Run Results, Run Summary, My Workspace, Run In Command Line, Docs.
- Summary:** 9 PASSED, 0 FAILED, Mattermosttesting, No Environment, 2 mins ago, Export Results, New.
- Test Cases Table:**

Back	1
POST successfullogin	✓
POST Loginwrongemail	✓
POST loginemptypassword	✓
POST loginemptyemail	✓
POST Wrongpassword	✓
POST passwordnotexist	✓
POST emailnotexist	✓
POST emailexceeding255is256	✓
POST passwordnotmore255chk256	✓

Console

Signup Cases:

Collection Runner Run Results Run Summary My Workspace Run In Command Line Docs

11 PASSED 0 FAILED Mattermosttesting No Environment just now Export Results New

Back	1
POST emptyusername	✓
POST emptyemail	✓
POST notvalidemail	✓
POST emailalreadyexist	✓
POST passwordlengthlessthan6	✓
POST usernamealreadyexist	✓
POST usernamelength256	✓
POST emaillength256	✓
POST passwordlength256	✓
POST emptypassword	✓
POST allvalid	✓

Console

Messaging Cases:

Collection Runner Run Results Run Summary My Workspace Run In Command Line Docs

8 PASSED 2 FAILED Mattermosttesting No Environment just now Export Results New

Back	1
POST onlyaudiomessagesuccess	✓
FAIL Status code is 200	✗
POST onlytextmessagesuccess	✓
POST sendernullwithtext	✓
POST sendernullwithfile	✓
POST sendernotexist	✓
POST receivernull	✓
POST receivernotvalid	✓
POST receivernotexist	✓
POST filetypeinvalid	✓
FAIL Status code is 200	✗
POST receivernotvalidemaillength256	✓

Console 3 WARNINGS

Note: 2 cases containing files are failing. When collectively run the cases collection does not successfully upload the file. So, individual cases attached.

My Workspace Invite

Filter

History Collections APIs

+ New Collection

Mattermosttesting
54 requests

- LoginTests
- ForgotPassword
- Messagingcases
 - onlyaudiomessagesuccess
 - onlytextmessagesuccess
 - sendernullwithtext
 - sendernullwithfile
 - sendernotexist
 - receivernull
 - receivernotvalid
 - receivernotexist
 - filetypenotvalid
 - receivernotvalidemaillength256
- signup
- resetpassword
- logout
- delete
- readmessages
- update
 - updatemessagesuccess
 - receiveridnotfound

onlyaudiomessagesuccess

POST http://127.0.0.1:8000/api/sendmessage

Params Authorization Headers (10) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> email	taliha.arif@gmail.com	
<input type="checkbox"/> text	hi	
<input checked="" type="checkbox"/> audio	file_example_MP3_700KB.mp3	
Key	Value	Description

Body Cookies Headers (10) Test Results (1/1)

Status: 200 OK Time: 569 ms Size: 347 B Save Response

```

1 {
2   "message": "Message successfully sent"
3 }

```

Find and Replace Console

My Workspace Invite

Filter

History Collections APIs

+ New Collection

Mattermosttesting
54 requests

- LoginTests
- ForgotPassword
- Messagingcases
 - onlyaudiomessagesuccess
 - onlytextmessagesuccess
 - sendernullwithtext
 - sendernullwithfile
 - sendernotexist
 - receivernull
 - receivernotvalid
 - receivernotexist
 - filetypenotvalid
 - receivernotvalidemaillength256
- signup
- resetpassword
- logout
- delete
- readmessages
- update
 - updatemessagesuccess
 - receiveridnotfound

filetypenotvalid

POST http://127.0.0.1:8000/api/sendmessage

Params Authorization Headers (10) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> email	taliha.arif@gmail.com	
<input type="checkbox"/> text	hi	
<input checked="" type="checkbox"/> audio	encoded-20200930073156.txt	
Key	Value	Description

Body Cookies Headers (10) Test Results (1/1)

Status: 422 Unprocessable Entity Time: 464 ms Size: 394 B Save Response

```

1 {
2   "audio": [
3     "The audio must be a file of type: wav, mp3, aiff, aac."
4   ]
5 }

```

Find and Replace Console

Forget Password:

Collection Runner

Run Results

Run Summary

My Workspace

Run In Command Line

Docs

5 PASSED

0 FAILED

Mattermosttesting

No Environment

just now

Export Results

New

Back

1

	POST	forgotpassword	
	POST	forgotpassword(emptyemail)	
	POST	forgotpassword(invalidemail)	
	POST	forgotpassword(emailnotexist)	
	POST	forgotpassword(length256)	

Console

Reset Password:

Collection Runner

Run Results

Run Summary

My Workspace

Run In Command Line

Docs

4 PASSED

0 FAILED

Mattermosttesting

No Environment

just now

Export Results

New

Back

1

	POST	lessthan6password	
	POST	validbuttimeexpired	
	POST	passwordgreaterthan255	
	POST	passwordempty	

Console

Logout:

Collection Runner

Run Results

Run Summary

My Workspace

Run In Command Line

Docs

3 PASSED

0 FAILED

Mattermosttesting

No Environment

just now

Export Results

New

Back

1

<div></div>	<div>GET</div>	successlogoutwithcorrecttoken	<div>✓</div>	
<div></div>	<div>GET</div>	headernull	<div>✓</div>	
<div></div>	<div>GET</div>	notvalidusernosexist	<div>✓</div>	

Console

Delete Message:

Collection Runner

Run Results

Run Summary

My Workspace

Run In Command Line

Docs

4 PASSED

0 FAILED

Mattermosttesting

No Environment

just now

Export Results

New

Back

1

<div></div>	<div>POST</div>	singlesuccessfuldeletion	<div>✓</div>	
<div></div>	<div>POST</div>	deletionmessagenosexist	<div>✓</div>	
<div></div>	<div>POST</div>	usertokennull	<div>✓</div>	
<div></div>	<div>POST</div>	usernosexistindb	<div>✓</div>	

Console

Update/Edit Message:

Collection Runner

Run Results

Run Summary

My Workspace

Run In Command Line

Docs

4 PASSED

0 FAILED

Mattermosttesting

No Environment

Export Results

New

Back

1

<div><div></div><div>POST</div></div>	updatemessagesuccess	<div><div></div><div></div></div>	
<div><div></div><div>POST</div></div>	receivermessagesnotfound	<div><div></div><div></div></div>	
<div><div></div><div>POST</div></div>	sendernull	<div><div></div><div></div></div>	
<div><div></div><div>POST</div></div>	sendernotexistindb	<div><div></div><div></div></div>	

Console

Read Messages:

Collection Runner

Run Results

Run Summary

My Workspace

Run In Command Line

Docs

4 PASSED

0 FAILED

Mattermosttesting

No Environment

Export Results

New

Back

1

<div><div></div><div>POST</div></div>	retrievesuccessfullychat	<div><div></div><div></div></div>	
<div><div></div><div>POST</div></div>	nochatrecieverexistbutnochat	<div><div></div><div></div></div>	
<div><div></div><div>POST</div></div>	usertokennullsendernotlogin	<div><div></div><div></div></div>	
<div><div></div><div>POST</div></div>	usertokennotexistindb	<div><div></div><div></div></div>	

Console

Trello Board:

