



Homework 07 –API Testing

Software Testing

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1. Introduction

This report documents the process of conducting API testing for the MentorUS platform, specifically version v0.5.4. The testing process began with an analysis of the API specifications, followed by the design and execution of test cases. The primary objective was to verify the correct functionality, data handling, and security of the APIs under test. The APIs tested in this assignment are:

Method	Route	Main feature
POST	/api/messages/file	Send a file to a specific channel
PATCH	/api/users/{userId}/profile	Update profile information
POST	/api/users/avatar	
POST	/api/notes	Create a note

2. Testing Environment

- Test Tool: Katalon V9
- Test Environment:
 - Server and Web-Admin: Hosted on localhost:8080
 - Test Data: Excel file used for input data
- Default Value:

Name	Convention (Use in test data)
Group ID	group1
Mentor ID	mentor (My own id)
Mentee ID	mentee1
List of mentees (userIds)	mentee1, mentee2
Default channel	default
UserId that do not belong to any channel	nonUser

3. API 1 – Send File to Specific Channel

3.1 API Description

3.1.1 Request Format

Attributes	Details								
Endpoint	POST/api/messages/file								
Content type	multipart/form-data								
Request body	<table><tr><td>id</td><td>string</td></tr><tr><td>groupId</td><td>string</td></tr><tr><td>senderId</td><td>string</td></tr><tr><td>file</td><td>\$binary</td></tr></table>	id	string	groupId	string	senderId	string	file	\$binary
id	string								
groupId	string								
senderId	string								
file	\$binary								

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3.1.2 Response Format

3.1.2.1 Successful Response

Attributes	Details
Status Code	200
Response Body	string

3.1.2.2 Error Response

Attributes	Details
Unauthorized	Status code: 401
Forbidden	Status Code: 403

3.2 Field Constraint

Field	Type	Required	Constraint
id	string	Yes	Unique UIDv4
groupId	string	Yes	UIDv4 of a channel
senderId	string	Yes	UIDv4 of a user in group channel
file	\$binary	Yes	Accept file type: .doc, .docx, .xls, .xlsx, .ppt, .pptx, .pdf, .mp3, .mp4, .wav Maximum file size: 5MB

3.3 Domain Testing

3.3.1.1 Equivalence Partitions

Partition	Value	Lower boundary	Upper boundary
1	id	One valid UIDv4	
2		One invalid UIDv4	
3		Empty	
4	groupId	UIDv4 of a channel	
5		UIDv4 of a non-existed channel	
6		Empty	
7	senderId	UIDv4 of a user in group channel	
8		UIDv4 of a non-existed user in channel	

9	file	UIDv4 of a non-existed user in DB	
10		Empty	
11		Accept file type: .doc, .docx, .xls, .xlsx, .ppt, .pptx, .pdf, .mp3, .mp4, .wav	
12		< 0 B	≥ 5MB
13		Other file type	

3.3.1.2 Minimum Set of Test Case

Test case	Partition tested	Input				Expected output
		id	groupId	senderId	file	
1	1,4,7,11,12	Generated by code	default	mentor	test1.docx	200
2	1,4,7,11,12	Generated by code	default	mentor	Test2.doc	200
3	1,4,7,11,12	Generated by code	default	mentor	Test3.xls	200
4	1,4,7,11,12	Generated by code	default	mentor	Test4.xlsx	200
5	1,4,7,11,12	Generated by code	default	mentor	Test5.ppt	200
6	1,4,7,11,12	Generated by code	default	mentor	Test6.pptx	200
7	1,4,7,11,12	Generated by code	default	mentor	Test7.pdf	200
8	1,4,7,11,12	Generated by code	default	mentor	mp3_1mb.mp3	200
9	1,4,7,11,12	Generated by code	default	mentor	mp4_3mb.mp4	200
10	1,4,7,11,12	Generated by code	default	mentor	wav_1mb.wav	200
11	3		default	mentor	test1.docx	400
12	5	Generated by code	Non-existed channel generated by code	mentor	test1.docx	400
13	6	Generated by code		mentor	test1.docx	400
14	8	Generated by code	default	nonUser	test1.docx	400
15	9	Generated by code	default	Non-existed user in DB generated by code	test1.docx	400
16	10	Generated by code	default		test1.docx	400
17	13	Generated by code	default	mentor	Test15.txt	415 Unsupported Media Type

3.3.1.3 Boundary Testing

Test case	Partition tested	Input				Expected output
		id	groupId	senderId	file	
18	12	Generated by code	default	mentor	12_8KB.docx	200
19	12	Generated by code	default	mentor	4mb.pdf	200
20	12	Generated by code	default	mentor	5mb.pdf	200
21	12	Generated by code	default	mentor	6mb.pdf	400

3.4 Security and Authorization

Test case	Input				Authorization	Expected output
	id	groupId	senderId	file		
22	Generated by code	default	mentor	test1.docx	No Bearer Token	401 Unauthorized
23	Generated by code	default	mentor	test1.docx	Incorrect Bearer Token	401 Unauthorized

4. API 2 – Update Profile

4.1 Upload avatar

4.1.1 API Description

4.1.1.1 Request Format

Attributes	Details
Endpoint	POST/api/users/avatar
Content type	multipart/form-data
Request body	file (string)

4.1.1.2 Response Format

4.1.1.2.1 Successful Response

Attributes	Details
Status Code	200
Response Body	<pre>{ "success": true, "message": "string", "data": "string", "returnCode": 0 }</pre>

4.1.1.2.2 Error Response

Attributes	Details
Unauthorized	Status code: 401
Forbidden	Status Code: 403

4.1.2 Field Constraint

Field	Type	Required	Constraint
file	string	No	<ul style="list-style-type: none">Accepted file: .jpg, .jpeg, .jpe, .jif, .jfif, .jfi, .png, .gif, .webp, .tiff, .tif, .heif, .heicMaximum File Size: 5MBThe file cannot be empty (0 bytes).

4.1.3 Domain Testing

4.1.3.1 Equivalence Partitions

Partition	Value	Lower boundary	Upper boundary
1	file	Accepted file: .jpg, .jpeg, .jpe, .jif, .jfif, .jfi, .png, .gif, .webp, .tiff, .tif, .heif, .heic	
2		Other file type	
3		< 0 B	≥ 5MB

4.1.3.2 Minimum Set of Test Case

Test case	Partition tested	Input	Expected output
		file	
1	1,3	Test1.jpg	200
2	1	Test2.jpeg	200
3	1	Test3.jpe	200
4	1	Test4.jif	200
5	1	Test5.jfif	200
6	1	Test6.jfi	200
7	1	Test7.png	200
8	1	Test8.gif	200
9	1	Test10.webp	200
10	1	Test11.tiff	200
11	1	Test12.tif	200
12	1	Test13.heif	200
13	1	Test14.heic	200
14	2	Test15.txt	415 Unsupported Media Type

4.1.3.3 Boundary Testing

Test case	Partition tested	Input	Expected output
		file	
15	4	0B.png	400 Bad request
16	3	82B.png	200
17	3	4-9MB.jpg	200
18	3	5MB.jpg	200
19	3	5-1MB.jpg	400 Bad request

4.1.4 Security and Authorization

Test case	Input	Authorization	Expected output
	file		
20	Test1.jpg	No Bearer Token	401 Unauthorized

4.2 Update information

4.2.1 API Description

4.2.1.1 Request Format

Attributes	Details
Endpoint	PATCH /api/users/{userId}/profile
Content type	application/json
Request body	<pre>{ "name": "string", "imageUrl": "string", "phone": "string", "birthDate": "2024-08-23T09:24:12.537Z", "personalEmail": "string", "gender": "FEMALE" }</pre>

4.2.1.2 Response Format

4.2.1.2.1 Successful Response

Attributes	Details
Status Code	200
Response Body	<pre>{ "returnCode": 0, "message": "string", "data": {} }</pre>

4.2.1.2.2 Error Response

Attributes	Details
Unauthorized	Status code: 401
Forbidden	Status Code: 403

4.2.2 Field Constraint

Field	Type	Required	Constraint
userId	string	Yes	36 characters (UUID format).
name	string	Yes	<ul style="list-style-type: none">1 - 50 characters.Accepts Vietnamese and English characters.Allows whitespace.No special characters or numbers.
imageUrl	string	No	Tested in 3.1, just empty this field
phone	string	No	<ul style="list-style-type: none">10 digits.Only numeric characters allowed.

			<ul style="list-style-type: none"> Must start with '0'.
birthdate	string	No	<ul style="list-style-type: none"> String of time (ISO format) Must not be in the future
personalEmail	string	No	<ul style="list-style-type: none"> 1 - 100 characters. Must follow the email format with the following rules: <ul style="list-style-type: none"> Allowed Characters: Letters (a-z, A-Z), digits (0-9), periods (.), and the at symbol (@). Must contain exactly one @ symbol, which cannot be at the beginning or end of the email. Periods (.) cannot be consecutive, at the beginning, or at the end of the email address. No special characters other than @ and period (.). The email address must not already exist in the database.
gender	string	No	Must be one of 'MALE', 'FEMALE'

4.2.3 Domain Testing

4.2.3.1 Equivalence Partitions

Partition	Value	Lower boundary	Upper boundary
1	userId	UIDv4 of a user	
2		UIDv4 of a non-existed user	
3		Empty	
4	name	≥ 1 character	≤ 50 characters
5		Vietnamese or English characters	
6		Numeric characters	
7		Other special characters not allowed in name e.g, @, +,?	
8		Empty field	
9	phone	Numeric characters (0-9)	
10		Exactly 10 digits	
11		The first digit is 0	
12		The first digit is not 0	
13		Without whitespace	
14		With whitespace	
15		Alphabetic string	
16		Other special characters e.g, @,?,/	
17		Empty field	

18	birthDate	ISO string of date	
19		A future date	
20		A past date	
21		Invalid date	
22		Today date	
23		Empty field	
24	personalEmail	≥ 1 character	≤ 100 characters
25		Characters are in A-Z, a-z, 0-9 and period	
26		Must have one @	
27		@ is not at first or at last	
28		Periods are not consecutive	
29		Periods are not at first or at last	
30		Empty	
31		There is a period at first	
32		There is a period at last	
33		Contains consecutively periods	
34		Don't have any period.	
35		There is a @ at first	
36		There is a @ at last	
37		There isn't any @	
38		There are more than one @	
39		Contains special character, except @ and period.	
40		The email has already existed in database.	
41	gender	Must be 'FEMALE', 'MALE', 'OTHERS'	
42		Other value	
43		Empty field	

4.2.3.2 Minimum Set of Test Case

Test Case	Partition Tested	Input						Expected Output
		userId	name	phone	birthDate	personalEmail	gender	
1	1,4,5,9,10,11,13,18,	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	200

	20,22, 25,26,27, 28,29,30, 41							
2	2	Non-existed user in DB generated by code	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	400
3	3		Fa Ngọc Uyển Nhi	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	400
4	6	mentor	Fa Ngọc67 Uyen5 Nhi	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	400
5	7	mentor	Fa Ngọc@ Uyen Nhi	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	400
6	8	mentor		0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	400
7	12	mentor	Fa Ngọc Uyển Nhi	949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	400
8	14	mentor	Fa Ngọc Uyển Nhi	0949 278 790	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	400
9	15	mentor	Fa Ngọc Uyển Nhi	abc	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	400
10	16	mentor	Fa Ngọc Uyển Nhi	09@@	2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	400
11	17	mentor	Fa Ngọc Uyển Nhi		2003-09-15	fnunhi21@clc.fitus.edu.vn	FEMALE	200
12	19	mentor	Fa Ngọc Uyển Nhi	0949278790	2025-15-09	fnunhi21@clc.fitus.edu.vn	FEMALE	400
13	21	mentor	Fa Ngọc Uyển Nhi	0949278790	2023-29-02	fnunhi21@clc.fitus.edu.vn	FEMALE	400
14	22	mentor	Fa Ngọc Uyển Nhi	0949278790	Now	fnunhi21@clc.fitus.edu.vn	FEMALE	200
15	23	mentor	Fa Ngọc Uyển Nhi	0949278790		fnunhi21@clc.fitus.edu.vn	FEMALE	200
16	30	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15		FEMALE	200
17	31	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	.example@gmail.com	FEMALE	400
18	32	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	example@gmail.com.	FEMALE	400
19	33	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	example@gmail..com	FEMALE	400
20	34	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	example@gmailcom	FEMALE	400

21	35	mentor	Fa Ngọc Uyển Nhi	094927879 0	2003-09-15	@examplegmail.com	FEMAL E	400
22	36	mentor	Fa Ngọc Uyển Nhi	094927879 0	2003-09-15	Examplegmail.com@	FEMAL E	400
23	37	mentor	Fa Ngọc Uyển Nhi	094927879 0	2003-09-15	Examplegmail.com	FEMAL E	400
24	38	mentor	Fa Ngọc Uyển Nhi	094927879 0	2003-09-15	Example@gmail@.com	FEMAL E	400
25	39	mentor	Fa Ngọc Uyển Nhi	094927879 0	2003-09-15	Example!gmail@.com	FEMAL E	400
26	40	mentor	Fa Ngọc Uyển Nhi	094927879 0	2003-09-15	<i>An existed email in database</i>	FEMAL E	400
27	42	mentor	Fa Ngọc Uyển Nhi	094927879 0	2003-09-15	fnunhi21@clc.fitus.edu .vn	MALE	200
28	42	mentor	Fa Ngọc Uyển Nhi	094927879 0	2003-09-15	fnunhi21@clc.fitus.edu .vn	OTHER S	200
29	43	mentor	Fa Ngọc Uyển Nhi	094927879 0	2003-09-15	fnunhi21@clc.fitus.edu .vn	BOY	400

4.2.3.3 Boundary Testing

Test Case	Partition Tested	Input					Expected Output
		userId	name	phone	birthDate	personalEmail	
30	4	mentor	N	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	200
31	4	mentor	Na	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	200
32	4	mentor	Nguyễn Văn A B C D E F G H I J K L M N O P Q R S A	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	200
33	4	mentor	Nguyễn Văn A B C D E F G H I J K L M N O P Q R S A N	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	200
34	4	mentor	Nguyễn Văn A B C D E F G H I J K L M N O P Q R S A N A	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	400
35	9	mentor	Fa Ngọc Uyển Nhi	0949/78790	2003-09-15	fnunhi21@clc.fitus.edu.vn	400
36	9	mentor	Fa Ngọc Uyển Nhi	0949:78790	2003-09-15	fnunhi21@clc.fitus.edu.vn	400
37	10	mentor	Fa Ngọc Uyển Nhi	012345678	2003-09-15	fnunhi21@clc.fitus.edu.vn	400

38	10	mentor	Fa Ngọc Uyển Nhi	01234567890	2003-09-15	fnunhi21@clc.fitus.edu.vn	400
39	22	mentor	Fa Ngọc Uyển Nhi	0949278790	Today's date - 1	fnunhi21@clc.fitus.edu.vn	200
40	22	mentor	Fa Ngọc Uyển Nhi	0949278790	Today's date + 1	fnunhi21@clc.fitus.edu.vn	200
41	24	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	abcdefghijklmnopqrstuvwxyzwla p.PQRSTUVWXYZ1234567 890.pqrstuvwxyzABCDEFGH IJKLMNOP12345@example. ple.domainnam.com	200
42	24	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	abcdefghijklmnopqrstuvwxyzwla p.PQRSTUVWXYZ1234567 890.pqrstuvwxyzABCDEFGH IJKLMNOP12345@example. ple.domainname.com	200
43	24	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	abcdefghijklmnopqrstuvwxyzwla p.PQRSTUVWXYZ1234567 890.pqrstuvwxyzABCDEFGH IJKLMNOP12345@example. ple.domainnam1.com	400

4.2.4 Security and Authorization

Test Case	Input					Authorization	Expected Output
	userId	name	phone	birthDate	personalEmail		
44	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	No Bearer Token	401
45	mentor	Fa Ngọc Uyển Nhi	0949278790	2003-09-15	fnunhi21@clc.fitus.edu.vn	Incorrect Bearer Token	401

5. API 3 – Create Note

5.1 API Description

5.1.1 Request Format

Attributes	Details
Endpoint	POST /api/notes
Content type	application/json
Request body	<pre>{ "title": "string", "content": "string", "userIds": ["string"] }</pre>

```
}
```

5.1.2 Response Format

5.1.2.1 Successful Response

Attributes	Details
Status Code	200
Response Body	<pre>{ "id": "string", "title": "string", "content": "string", "shareType": "PUBLIC", "creator": { "id": "string", "name": "string", "email": "string", "imageUrl": "string", "totalNotes": 0 }, "updatedBy": { "id": "string", "name": "string", "email": "string", "imageUrl": "string", "totalNotes": 0 }, "owner": { "id": "string", "name": "string", "email": "string", "imageUrl": "string", "totalNotes": 0 }, "createdDate": "2024-08-23T05:58:02.197Z", "updatedAt": "2024-08-23T05:58:02.197Z", "noteHistories": [{ "id": "string", "title": "string", "content": "string", "updatedBy": { "id": "string", "name": "string", "email": "string", "imageUrl": "string", "totalNotes": 0 }, "createdDate": "2024-08-23T05:58:02.197Z", "updatedAt": "2024-08-23T05:58:02.197Z" }], "users": [{</pre>


```

        "id": "string",
        "name": "string",
        "email": "string",
        "imageUrl": "string",
        "totalNotes": 0
      }
    ],
    "userAccesses": [
      {
        "user": {
          "id": "string",
          "name": "string",
          "email": "string",
          "imageUrl": "string",
          "totalNotes": 0
        },
        "notePermission": "VIEW"
      }
    ],
    "editable": true
  }
}

```

5.1.2.2 Error Response

Attributes	Details
Unauthorized	Status code: 401
Forbidden	Status Code: 403

5.2 Field Constrant

Field	Type	Required	Constraint
tiitle	String	Yes	None
content	String	Yes	None
userIds	Array	Yes	List of unique UIDv4 of users, all users in this list must be mentees of the mentor who is creating the note

5.3 Domain Testing

5.3.1 Equivalence Partitions

Parition	Value	Lower Boundary	Upper Boundary
1	title	≥ 1 character	Large number of Characters (e.g., 65000 characters)
2		Empty field	
3	content	≥ 1 character	Large number of Characters (e.g., 65000 characters)
4		Empty field	

5	userIds	1 user ID	Large number of user IDs (e.g., 1000 IDs)
6		Empty field	
7		User is not the mentees of the mentor who is creating the note	
8		My own UserID	

5.3.2 Minimum Set of Test Case

Test Case	Partition Tested	Input			Expected Output	Success
		title	content	userIds		
1	1, 3, 5	Valid Title	Valid Content	"mentee1", "mentee2"	200	True
2	2		Valid Content	"mentee1", "mentee2"	400 Bad Request - Error: "Title is required."	False
3	4	Valid Title		"mentee1", "mentee2"	400 Bad Request - Error: "Content is required."	False
4	6	Valid Title	Valid Content		400 Bad Request - Error: "Users are required."	False
5	7	Valid Title	Valid Content	"nonUser"	403 Forbidden	False
6	8	Valid Title	Valid Content	"mentor"	403 Forbidden	False

5.3.3 Boundary Testing

Test Case	Partition Tested	Input			Expected Output	Success
		title	content	userIds		
7	1	N	Valid Content	"mentee1", "mentee2"	200	True
8	1	65000 characters	Valid Content	"mentee1", "mentee2"	200	True
9	3	Valid Title	N	"mentee1", "mentee2"	200	True
10	3	Valid Title	65000 characters	"mentee1", "mentee2"	200	True
11	5	Valid Title	Valid Content	"mentee1"	200	True

5.4 Security and Authorization

Test Case	Input			Authorization	Expected Output	Success
	title	content	userIds			
12	Valid Title	Valid Content	"mentee1", "mentee2"	No Bearer Token	401 Unauthorized	False

13	Valid Title	Valid Content	"mentee1", "mentee2"	Incorrect Bearer Token	401 Unauthorized	False
----	-------------	---------------	-------------------------	---------------------------	------------------	-------

6. Result and analysis


6.1 Summary test execution

API	Total execution	Pass	Failed
/api/messages/file	22	16	6
/api/users/avatar	66	30	36
/api/users/{userId}/profile			
/api/note	13	13	0

- Analysis: /api/users/{userId}/profile: During testing of the API – Update Profile endpoint (/api/users/{userId}/profile), it was found that the personalEmail field does not update at all. Out of 36 test cases that check how the email is updated, 13 of them failed because of this issue.

6.2 Issues reported

6.2.1 AP1 – Send File



Logged in as: 21KTPM1.06.21127661 (Fa Ngọc Uyên Nhi - reporter)

2024-08-25 14:50 +07

[My View](#) | [View Issues](#) | [Report Issue](#) | [Change Log](#) | [Roadmap](#) | [My Account](#) | [Logout](#)

Issue #

Jump

Recently Visited: 0053455

View Issue Details [Jump to Notes]

[>>]

[Issue History] [Print]

ID	Project	Category	View Status	Date Submitted	Last Update
0053455	21KTPM1.06	[All Projects] General	public	2024-08-25 14:49	2024-08-25 14:49
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	normal	Severity	minor	Reproducibility	always
Status	new	Resolution	open		
Platform		OS		OS Version	
Summary	0053455: API accepts unsupported file type and returns a 200 status code instead of 415 Unsupported Media Type.				
Description	The API endpoint /api/upload is designed to accept only certain file types: .doc, .docx, .xls, .xlsx, .ppt, .pptx, .pdf, .mp3, .mp4, .wav. However, during testing, it was found that when a .txt file is sent, the API incorrectly processes the file and returns a 200 OK status code instead of the expected 415 Unsupported Media Type. This indicates that the file type validation is either not implemented or not functioning correctly.				
Steps To Reproduce	1. Prepare Valid Data: Gather valid senderId, groupId, and an Authorization Token. 2. Set Up the Script: Update the test script to use the .txt file along with the valid data. 3. Send the Request: Run the script to send a POST request with the .txt file to the API endpoint. 4. Check the Response: Observe that the API returns a 200 OK status code instead of the expected 415 Unsupported Media Type.				
Tags	No tags attached.				
Attach Tags	(Separate by ",") Existing tags Attach				
Attached Files	Monitor				

Relationships

Upload File

Select File (Maximum size: 5,000k) Choose File No file chosen Upload File

Notes

There are no notes attached to this issue.

Add Note

Figure 1. API accepts unsupported file type



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Issue # Jump

Recently Visited: 0053456, 0053455

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ID	Project	Category	View Status	Date Submitted	Last Update
0053456	21KTPM1.06	[All Projects] General	public	2024-08-25 15:00	2024-08-25 15:00
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	low	Severity	tweak	Reproducibility	always
Status	new	Resolution	open		
Platform			OS	OS Version	
Summary	0053456: [API] returns a 500 Internal Server Error instead of 400 when file size exceeds the maximum limit on '/api/messages/file'				
Description	The API endpoint '/api/messages/file' is expected to return a 400 Bad Request status code when a client attempts to upload a file that exceeds the maximum allowed size. However, during testing, it was found that when a file larger than the allowed limit is uploaded, the API returns a 500 Internal Server Error instead.				
Steps To Reproduce	<div>1. Prepare valid senderId, groupId, and an Authorization Token.</div> <div>2. Create a file that exceeds the maximum allowed size for the /api/messages/file endpoint.</div> <div>3. Update the test script to use the oversized file and the valid data.</div> <div>4. Send a POST request to the /api/messages/file endpoint with the oversized file.</div> <div>5. Observe the response status code. Notice that the server returns a 500 Internal Server Error instead of the expected 400 Bad Request.</div>				
Tags	No tags attached.				
Attach Tags	<div>(Separate by ",")<div><div></div></div>Existing tags<div></div><div>Attach</div></div>				
Attached Files					
<div>Monitor</div>					

Relationships

Upload File

Select File (Maximum size: 5,000k) No file chosen

Notes

There are no notes attached to this issue.

Add Note

Figure 2. [API] returns a 500 Internal Server Error instead of 400 when file size exceeds the maximum limit



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Issue # Jump

Recently Visited: 0053457, 0053456, 0053455

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ID	Project	Category	View Status	Date Submitted	Last Update
0053457	21KTPM1.06	[All Projects] General	public	2024-08-25 15:07	2024-08-25 15:07
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	high	Severity	minor	Reproducibility	always
Status	new	Resolution	open		
Platform			OS	OS Version	
Summary	0053457: [API] allows sending file with a non-existing senderId in the database on 'api/messages/file'				
Description	If the senderId does not exist in the database, the API should reject the request and return an appropriate error status code (e.g., 404 Not Found or 400 Bad Request). However, during testing, it was observed that the API accepts a file upload even when the senderId does not exist in the database, returning a 200 OK status code. This indicates that the API is not properly validating the senderId before processing the file upload.				
Steps To Reproduce	<div>1. Prepare valid groupId, an Authorization Token, and a valid file for upload.</div> <div>3. Generate a random UUIDv4 senderId that does not exist in the database.</div> <div>4. Update the test script to use the non-existing senderId and the valid data.</div> <div>5. Send a POST request to the /api/messages/file endpoint with the non-existing senderId.</div> <div>6. Observe the response status code. Notice that the server returns a 200 OK status code, indicating successful processing, instead of rejecting the request due to the non-existing senderId.</div>				
Tags	No tags attached.				
Attach Tags	<div>(Separate by ",") <input type="text"/> Existing tags <div>▼</div> <div>Attach</div></div>				
Attached Files					
<div>Monitor</div>					

Relationships

Upload File

Select File (Maximum size: 5,000k) No file chosen

Notes

There are no notes attached to this issue.

Add Note

Figure 3. [API] allows sending file with a non-existing senderId in the database



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Issue # [Jump](#)

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ID	Project	Category	View Status	Date Submitted	Last Update
0053458	21KTPM1.06	[All Projects] General	public	2024-08-25 15:13	2024-08-25 15:13
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	normal	Severity	minor	Reproducibility	always
Status	new	Resolution	open		
Platform		OS		OS Version	
Summary	0053458: [API] allows sending file even when id or senderId is empty on/api/messages/file				
Description	If either of these fields is empty, the API should reject the request and return an appropriate error status code (e.g., 400 Bad Request). However, during testing, it was observed that the API allows a file to be uploaded even when the id or senderId is empty, returning a 200 OK status code.				
Steps To Reproduce	1. Prepare valid groupId, an Authorization Token, and a valid file for upload. 2. Choose to empty id or senderId 3. Send a POST request to the /api/messages/file endpoint with the empty id or senderId.				
Tags	No tags attached.				
Attach Tags	(Separate by ",") <input type="text"/> Existing tags <input type="button" value="Attach"/>				
Attached Files					
<input type="button" value="Monitor"/>					

Relationships

Upload File

Select File (Maximum size: 5,000k) No file chosen

Notes

There are no notes attached to this issue.

Add Note

Note

Figure 4. [API] allows sending file even when id or senderId is empty

6.2.2 API – Update Profile

For this api, the personalEmail is not update for all test case so it contain 12/36 test case failed for the domain of email



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Issue # [Jump](#)

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ID	Project	Category	View Status	Date Submitted	Last Update
0053459	21KTPM1.06	[All Projects] General	public	2024-08-25 15:23	2024-08-25 15:23
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	normal	Severity	minor	Reproducibility	always
Status	new	Resolution	open		
Platform		OS		OS Version	
Summary	0053459: [API] allows invalid name values: special characters, over 100 characters, and empty values on '/api/users/{userId}/profile'				
Description	The API endpoint /api/users/{userId}/profile is expected to validate the name field to ensure it conforms to certain standards (e.g., no special characters, reasonable length, non-empty). However, during testing, it was observed that the - API allows the name field to be: - Empty. - Contain special characters (e.g., @#%\$%).				
Steps To Reproduce	1. Prepare a valid userId and Authorization Token. 2. Set the name field to various invalid values, such as: - An empty string (""). - A string containing special characters (e.g., "John@#%\$"). - A string longer than 100 characters. 3. Send a PATCH request to the /api/users/{userId}/profile endpoint with each test case. 4. Observe the response status code and the returned name field in the response. Notice that the API returns a 200 OK status code and accepts the invalid name values without any error.				
Tags	No tags attached.				
Attach Tags	(Separate by ",") <input type="text"/> Existing tags <input type="button" value="Attach"/>				
Attached Files					
<input type="button" value="Monitor"/>					

Relationships

Upload File

Select File (Maximum size: 5,000k) No file chosen

Figure 5. [API] allows invalid name values: special characters, over 100 characters, and empty values



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2024-08-25 15:26 +07

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	Project	Category	View Status	Date Submitted	Last Update
0053460	21KTPM1.06	[All Projects] General	public	2024-08-25 15:26	2024-08-25 15:26
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	normal	Severity	minor	Reproducibility	always
Status	new	Resolution	open		
Platform			OS	OS Version	
Summary	0053460: [API] does not update the personalEmail field; it always returns null regardless of the input on 'api/users/{userId}/profile'				
Description	The API endpoint /api/users/{userId}/profile is expected to allow updates to the personalEmail field. However, during testing, it was observed that the personalEmail field does not update, regardless of the input provided. Even when valid email addresses are sent in the request, the API returns null for the personalEmail field in the response.				
Steps To Reproduce	<div>1. Prepare a valid userId and Authorization Token.</div> <div>2. Set the personalEmail field to various valid email addresses (e.g., "test@example.com", "user@domain.com").</div> <div>3. Send a PATCH request to the /api/users/{userId}/profile endpoint with the updated personalEmail.</div> <div>4. Observe the response. Notice that the personalEmail field in the response is always null, regardless of the input.</div> <div>5. Repeat the test with different email addresses to confirm consistent behavior.</div>				
Tags	No tags attached.				
Attach Tags	(Separate by ",") <input type="text"/>		Existing tags <input type="button" value="v"/>	Attach <input type="button" value="+"/>	
Attached Files					
	<input type="button" value="Monitor"/>				

Relationships

Upload File

Select File (Maximum size: 5,000k) No file chosen

Notes

There are no notes attached to this issue.

Add Note

Figure 6. [API] does not update the personalEmail field



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Issue # [Jump](#)

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ID	Project	Category	View Status	Date Submitted	Last Update
0053461	21KTPM1.06	[All Projects] General	public	2024-08-25 15:32	2024-08-25 15:32
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	normal	Severity	minor	Reproducibility	always
Status	new	Resolution	open		
Platform			OS	OS Version	
Summary	0053461: [API] accepts invalid phone numbers: non-numeric characters and strings exceeding 10 characters 'api/users/{userId}/profile'				
Description	The API endpoint /api/users/{userId}/profile is expected to validate the phone field to ensure it only accepts valid phone numbers (e.g., numeric characters, up to 10 digits). However, during testing, it was observed that the phone field accepts: <ul style="list-style-type: none">- Non-numeric characters (e.g., letters, symbols).- Strings exceeding 10 characters in length.				
Steps To Reproduce	<ol style="list-style-type: none">1. Prepare a valid userId and Authorization Token.2. Set the phone field to various invalid values, such as:<ul style="list-style-type: none">- A string with non-numeric characters (e.g., "12345abcde").- A string exceeding 10 characters (e.g., "12345678901").- A string with symbols (e.g., "123-456-7890").3. Send a PATCH request to the /api/users/{userId}/profile endpoint with each test case.4. Observe the response status code and the returned phone field in the response.5. Notice that the API returns a 200 OK status code and accepts the invalid phone values without any error.				
Tags	No tags attached.				
Attach Tags	(Separate by ",") <input type="text"/> Existing tags <input type="button" value="Attach"/>				
Attached Files					
<div>Monitor</div>					

Relationships

Upload File

Select File (Maximum size: 5,000k) No file chosen

Notes

Figure 7. [API] accepts invalid phone numbers: non-numeric characters and strings exceeding 10 characters



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2024-08-25 15:36 +07

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Issue # [Jump](#)

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ID	Project	Category	View Status	Date Submitted	Last Update
0053462	21KTPM1.06	[All Projects] General	public	2024-08-25 15:36	2024-08-25 15:36
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	normal	Severity	minor	Reproducibility	always
Status	new	Resolution	open		
Platform		OS		OS Version	
Summary	0053462: [API] accepts invalid dates and future dates in the birthDate field on 'api/users/{userId}/profile'				
Description	<p>The API endpoint /api/users/{userId}/profile is expected to validate the birthDate field to ensure that only valid dates are accepted, and that the date cannot be in the future. However, during testing, it was observed that the birthDate field:</p> <ul style="list-style-type: none">- Accepts invalid date formats (e.g., "2024-02-30").- Accepts future dates (e.g., "2050-01-01").- Accepts special characters or string				
Steps To Reproduce	<ol style="list-style-type: none">1. Prepare a valid userId and Authorization Token.2. Set the birthDate field to various invalid values, such as:<ul style="list-style-type: none">- An invalid date (e.g., "2024-02-30").- A future date (e.g., "2050-01-01").3. Send a PATCH request to the /api/users/{userId}/profile endpoint with each test case.4. Observe the response status code and the returned birthDate field in the response.5. Notice that the API returns a 200 OK status code and accepts the invalid and future birthDate values without any error.				
Tags	No tags attached.				
Attach Tags	<div>(Separate by ",") <input type="text"/> Existing tags <input type="button" value="Attach"/></div>				
Attached Files					
<div>Monitor</div>					

Relationships

Upload File

Select File
(Maximum size: 5,000k)

No file chosen

Figure 8. [API] accepts invalid dates and future dates in the birthDate field



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2024-08-25 15:45 +07

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ID	Project	Category	View Status	Date Submitted	Last Update
0053465	21KTPM1.06	[All Projects] General	public	2024-08-25 15:45	2024-08-25 15:45
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	normal	Severity	minor	Reproducibility	always
Status	new	Resolution	open		
Platform		OS		OS Version	
Summary	0053465: [API] does not return a 400 status code when the gender field is set to a value other than MALE or FEMALE or empty				
Description	<p>The API endpoint <code>/api/users/{userId}/profile</code> is expected to validate the gender field to ensure that it only accepts the values MALE or FEMALE. If any other value is provided, the API should return a 400 Bad Request status code, indicating an invalid request from the client. However, during testing, it was observed that the API accepts other values (e.g., OTHER, UNKNOWN, or any arbitrary string), and does not return the expected 400 status code. This could lead to incorrect data being stored in the user profile and potential issues in downstream systems.</p>				
Steps To Reproduce	<ol style="list-style-type: none">1. Prepare a valid <code>userId</code> and Authorization Token.2. Set the gender field to various invalid values, such as:<ul style="list-style-type: none">- "OTHER"- "UNKNOWN"- Any arbitrary string (e.g., "NON-BINARY", "X", "123").3. Send a PATCH request to the <code>/api/users/{userId}/profile</code> endpoint with each invalid gender value.4. Observe the response status code. Notice that the server incorrectly returns a 200 OK status code instead of the expected 400 Bad Request.				
Tags	No tags attached.				
Attach Tags	(Separate by ",") <input type="text"/> Existing tags <input type="button" value="Attach"/>				
Attached Files					
<div>Monitor</div>					

Relationships

Upload File

Select File
(Maximum size: 5,000k)

No file chosen

Notes

Figure 9. [API] does not return a 400 status code when the gender field is set to a value other than MALE or FEMALE or empty



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Issue # [Jump](#)

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0053466	21KTPM1.06	[All Projects] General	public	2024-08-25 15:49	2024-08-25 15:49
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	normal	Severity	minor	Reproducibility	have not tried
Status	new	Resolution	open		
Platform		OS		OS Version	
Summary	0053466: [API] allows profile to be updated successfully even when userId is empty on 'api/users/{userId}/profile'				
Description	The API endpoint /api/users/{userId}/profile is expected to require a valid userId to update a user's profile. If the userId is empty or missing				
Steps To Reproduce	<ol style="list-style-type: none">1. Prepare a valid Authorization Token.2. Set the userId to an empty string ("") or omit it from the request URL.3. Send a PATCH request to the /api/users/{userId}/profile endpoint with the empty or missing userId.4. Observe the response status code. Notice that the server incorrectly returns a 200 OK status code and allows the update, despite the userId being empty or missing.				
Tags	No tags attached.				
Attach Tags	(Separate by ",") <input type="text"/> Existing tags <input type="button" value="Attach"/>				
Attached Files					
<input type="button" value="Monitor"/>					

Relationships

Upload File

Select File (Maximum size: 5,000k) No file chosen

Notes

There are no notes attached to this issue.

Add Note

Note

Figure 10. [API] allows profile to be updated successfully even when userId is empty



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2024-08-25 15:53 +07

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Issue # [Jump](#)

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ID	Project	Category	View Status	Date Submitted	Last Update
0053468	21KTPM1.06	[All Projects] General	public	2024-08-25 15:53	2024-08-25 15:53
Reporter	21KTPM1.06.21127661				
Assigned To					
Priority	normal	Severity	minor	Reproducibility	always
Status	new	Resolution	open		
Platform		OS		OS Version	
Summary	0053468: [API] allows uploading of 0-byte files and unsupported file types for the avatar on 'api/users/avatar'				
Description	The API endpoint /api/users/{userId}/avatar is expected to validate the uploaded avatar file to ensure it is both a supported file type and has a non-zero file size. However, during testing, it was observed that the API allows: <ul style="list-style-type: none">- Uploading a 0-byte file, which should be rejected.- Uploading unsupported file types (e.g., .txt, .exe), which should also be rejected.- This behavior can lead to issues with the user's profile, such as displaying broken or invalid images.				
Steps To Reproduce	<ol style="list-style-type: none">1. Prepare a valid userId and Authorization Token.2. Create a 0-byte file or select a file with an unsupported type (e.g., .txt, .exe).3. Send a POST request to the /api/users/{userId}/avatar endpoint with the 0-byte or unsupported file.4. Observe the response status code. Notice that the server incorrectly returns a 200 OK status code and accepts the upload, despite the file being invalid.				
Tags	No tags attached.				
Attach Tags	(Separate by ",") <input type="text"/> Existing tags <input type="button" value="Attach"/>				
Attached Files					
<input type="button" value="Monitor"/>					

Relationships

Upload File

Select File (Maximum size: 5,000k) No file chosen

Notes

There are no notes attached to this issue.

Figure 11. [API] allows uploading of 0-byte files and unsupported file types for the avatar

6.2.3 API – Create Note

For this API, I found the issue of UI in the new note with a long title



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2024-08-25 15:56 +07


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ID	0053469	Project	21KTPM1.06	Category	[All Projects] General	View Status	public	Date Submitted	2024-08-25 15:56	Last Update	2024-08-25 15:56
Reporter	21KTPM1.06.21127661										
Assigned To											
Priority	normal	Severity	minor	Reproducibility	always						
Status	new	Resolution	open	OS Version							
Platform	OS										
Summary	0053469: [GUI] Note title does not wrap text in the div when the title is too long.										
Description	In the application, when creating a note with a very long title, the text does not wrap within the designated div container. Instead, the title overflows or causes layout issues, making the note difficult to read and the UI appear broken.										
Steps To Reproduce	1. Navigate to the note creation section of the application. 2. Create a new note and set the title to a very long string (e.g., "This is a very long title that exceeds the normal length and should wrap within the container but does not"). 3. Save the note and observe how the title is displayed in the note list or detail view. 4. Notice that the title does not wrap within the div container and may overflow or disrupt the layout.										
Tags	No tags attached.										
Attach Tags	(Separate by ",") <input type="text"/> Existing tags <input type="button" value="Attach"/>										
Attached Files	 CreateNote_LongTitle.png (11,344 bytes) 2024-08-25 15:56										
<input type="button" value="Monitor"/>											

[Relationships](#)

Figure 12. Note title does not wrap text in the div when the title is too long.

7. Self-Assessment

Self-Assessment Report

Criteria	Outcomes (Brief description about what you get/trouble from each requirement)	Grade	Self-Assessment Grade
1	API 1	3	3
2	API 2 During testing of the API – Update Profile endpoint (/api/users/{userId}/profile), it was found that the personalEmail field does not update at all. Out of 36 test cases that check how the email is updated, 13 of them failed because of this issue	3	3
3	API 3	3	3
4	Style, format of the report	1	1
	Total	10	10