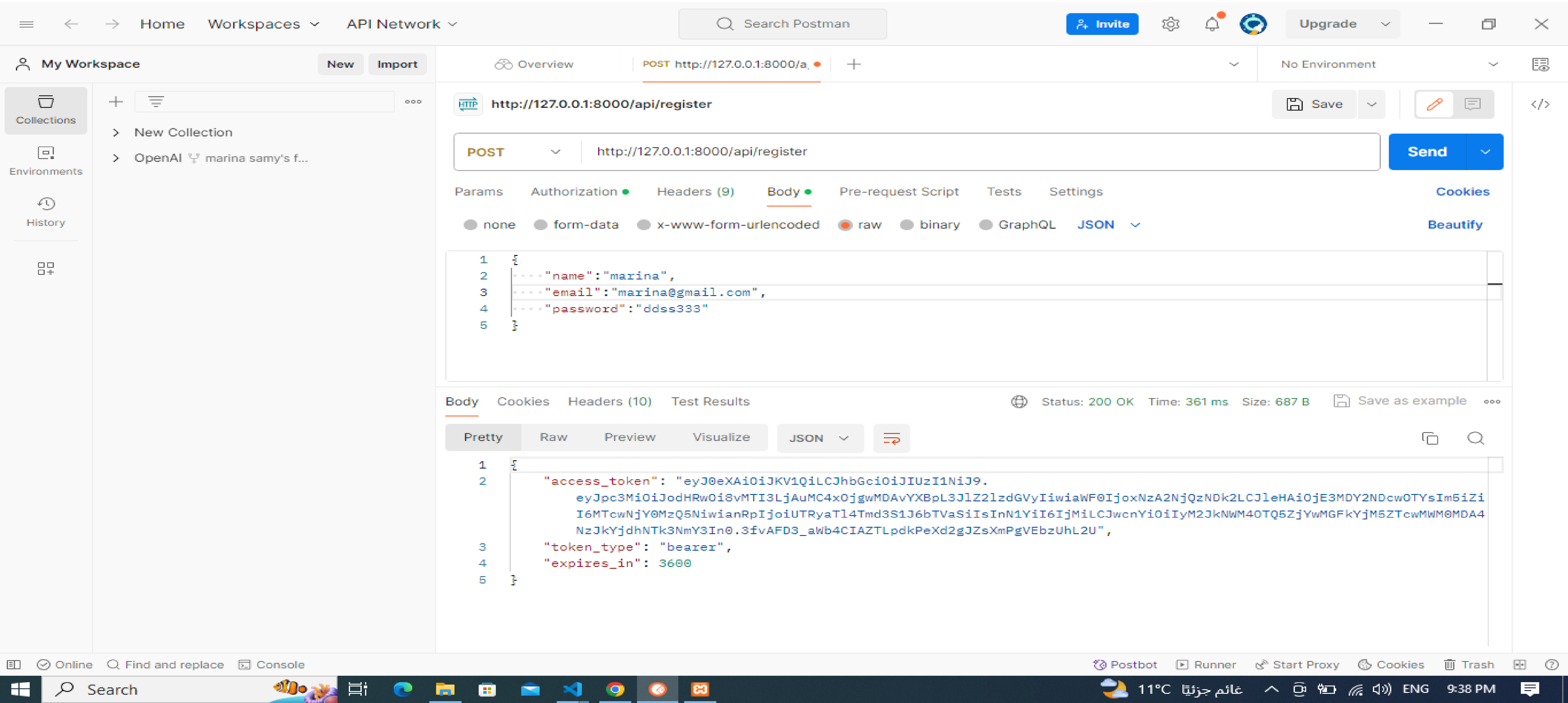
Instruction

1- Createing new Laravel application
2- Install the third party package called jwt-auth
3- Generate a jwt secret key by running
php artisan jwt:secret
4- Define two methods to return the JWTIdentifier and JWTCustomClaims in user model
5- Setting the api guard as the default and telling the api guard to use jwt
6- Set up the Database connection in env file which name is noteDB
7- Make migration, models and controller
8- Test in postman

Register new user



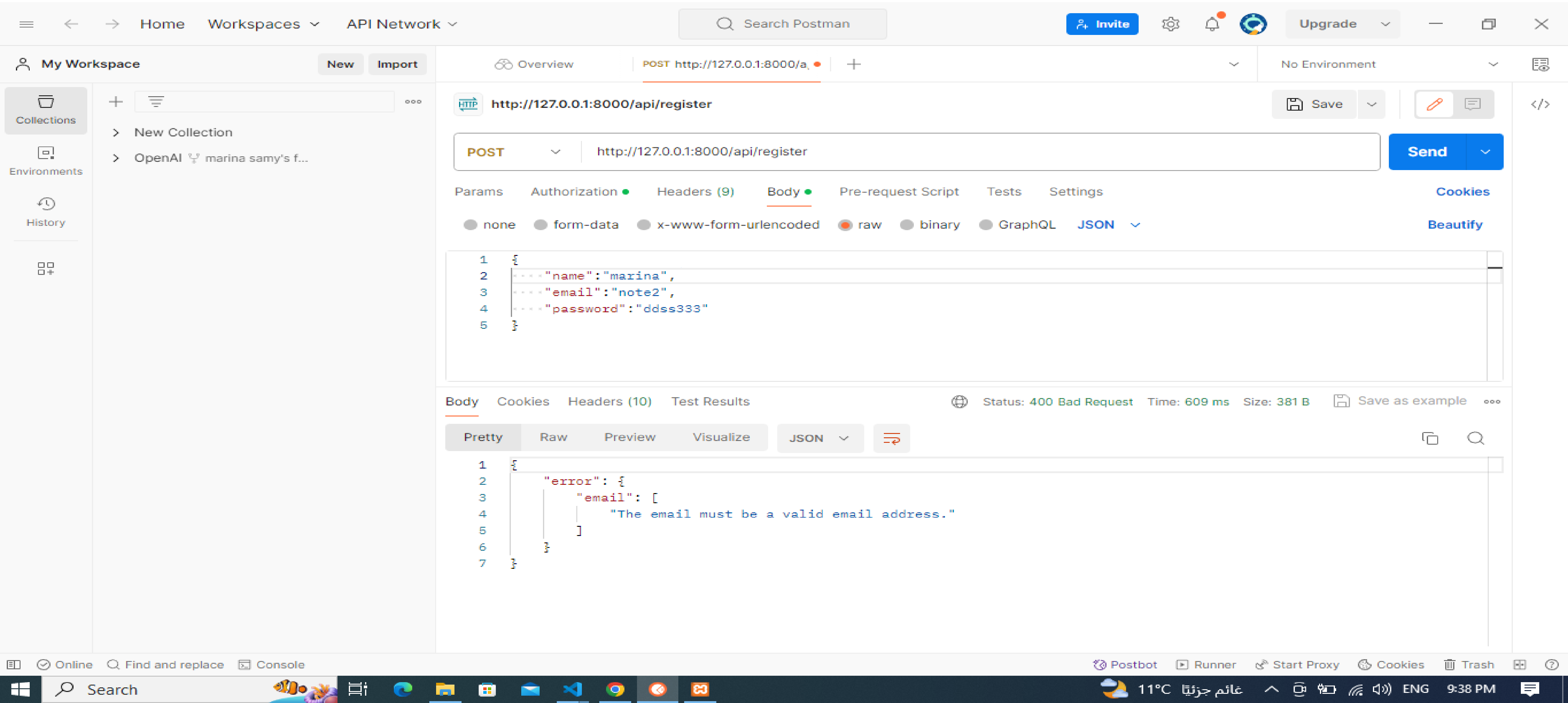
POST http://127.0.0.1:8000/api/register

```
{
    "name":"marina",
    "email":"marina@gmail.com",
    "password":"ddss333"
}
```

Status: 200 OK Time: 361 ms Size: 687 B

```
{
    "access_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.
        eyJpc3MiOiJodHRwOi8vMTI3LjAuMC4xOjgwMDAvYXBpL3JlZ2lzdGVyIiwiaWF0IjoxNzA2NjQzNDk2LCJleHAiOjE3MDY2NDcwOTYsIm5iZi
        I6MTcwNjY0MzQ5NiwianRpIjoiUTRyaTl4Tmd3S1J6bTVaSiIsInN1YiI6IjMiLCJwcnYiOiIyM2JkNWM4OTQ5ZjYwMGFkYjM5ZTcwMWM0MDA4
        NzJkYjdhNTk3NmY3In0.3fvAFD3_aWb4CIAZTLpdkPeXd2gJZsXmPgVEbzUhL2U",
    "token_type": "bearer",
    "expires_in": 3600
}
```

Validation error when register



http://127.0.0.1:8000/api/register

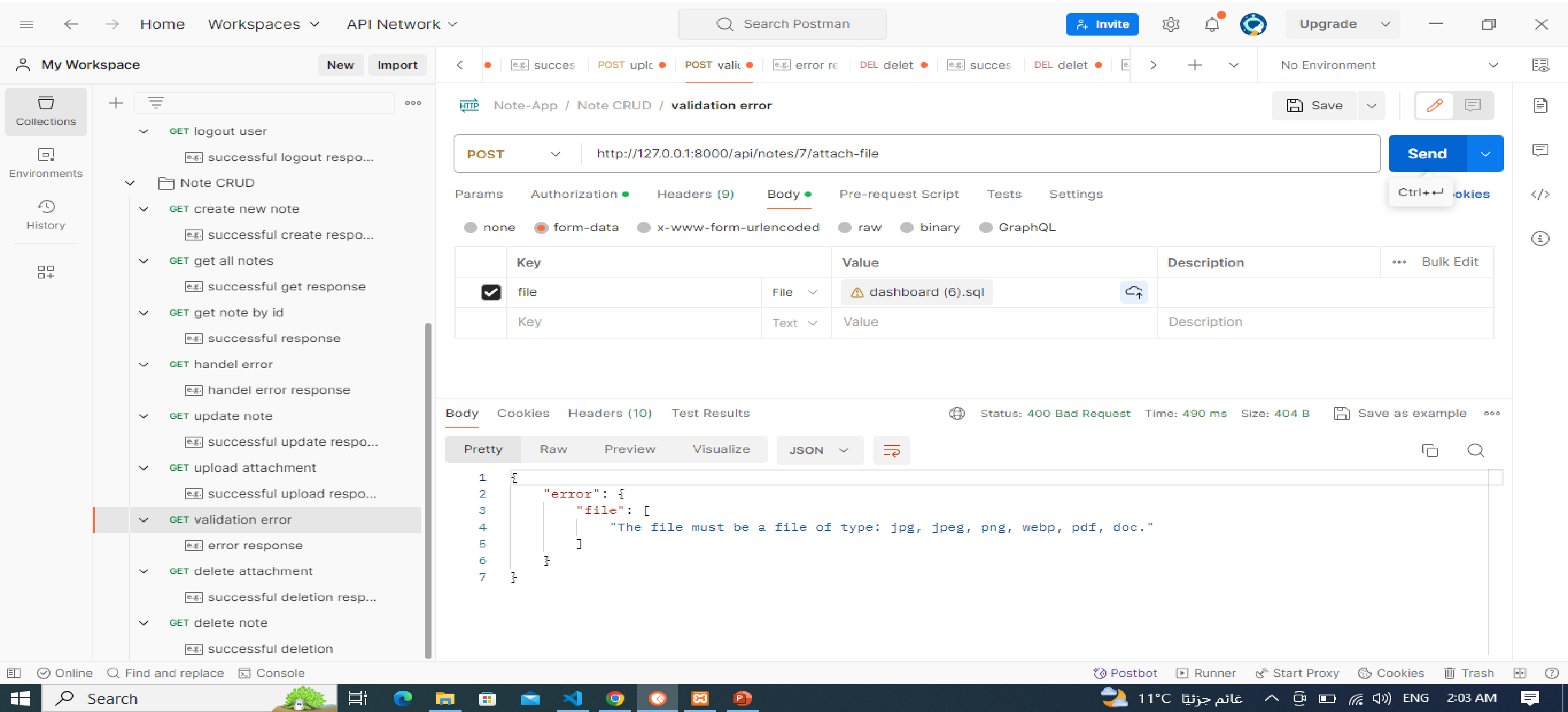
POST http://127.0.0.1:8000/api/register

```
{
    "name":"marina",
    "email":"note2",
    "password":"ddss333"
}
```

Status: 400 Bad Request Time: 609 ms Size: 381 B

```
{
    "error": {
        "email": [
            "The email must be a valid email address."
        ]
    }
}
```

Unauthorized error



Note-App / Note CRUD / **validation error**

POST http://127.0.0.1:8000/api/notes/7/attach-file

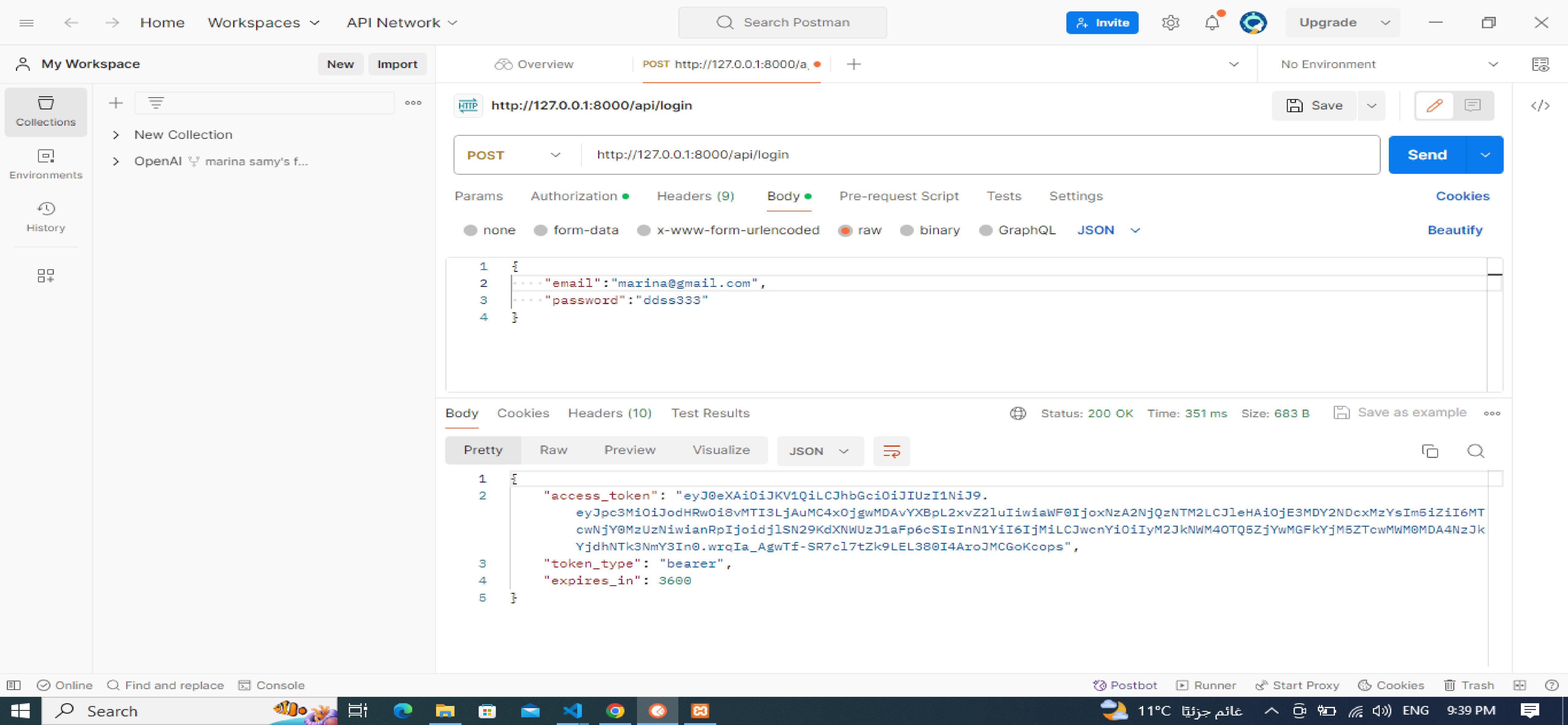
Body: form-data

Key		Value	Description
file	File	dashboard (6).sql	

Status: 400 Bad Request Time: 490 ms Size: 404 B

```
{
    "error": {
        "file": [
            "The file must be a file of type: jpg, jpeg, png, webp, pdf, doc."
        ]
    }
}
```

User login



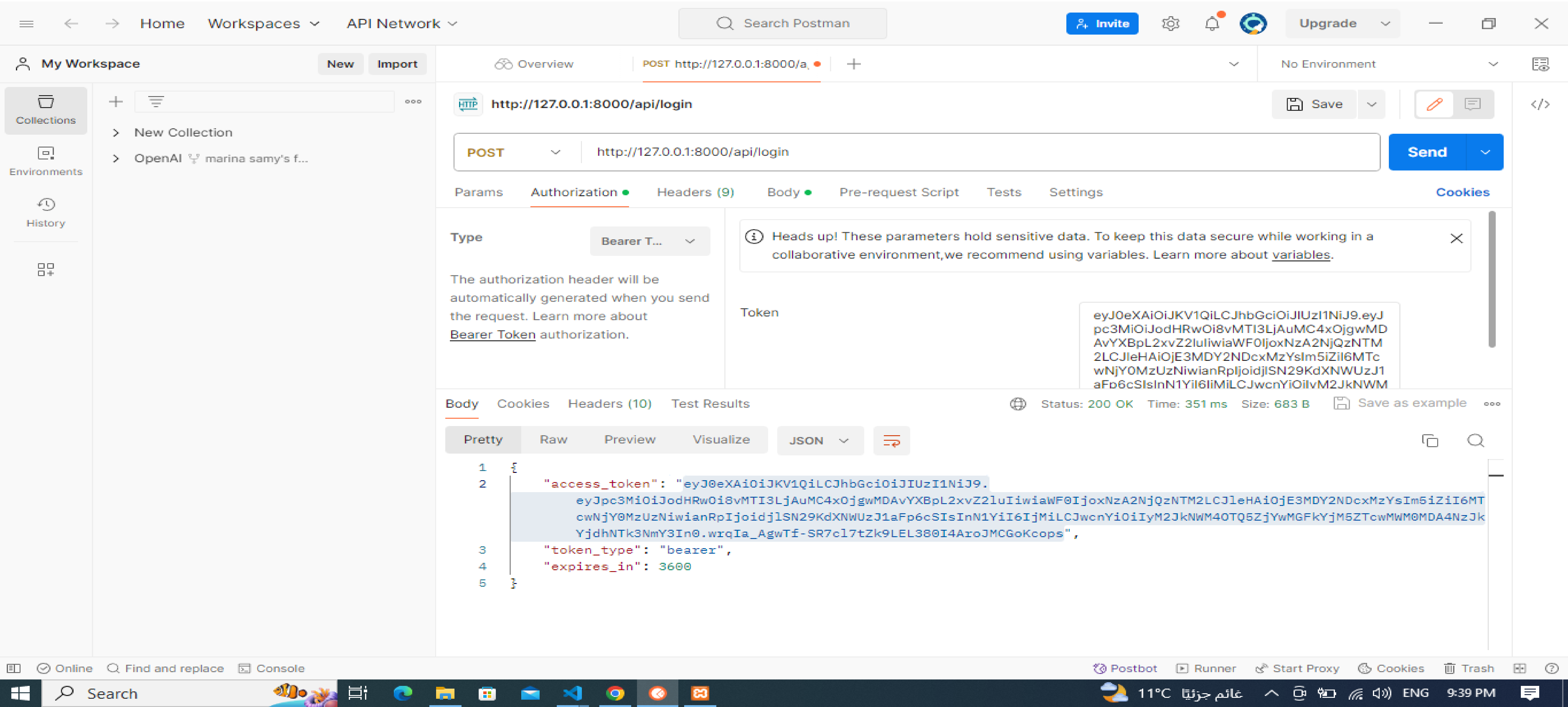
POST http://127.0.0.1:8000/api/login

```
{
    "email":"marina@gmail.com",
    "password":"ddss333"
}
```

Status: 200 OK Time: 351 ms Size: 683 B

```
{
    "access_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.
        eyJpc3MiOiJodHRwOi8vMTI3LjAuMC4xOjgwMDAvYXBpL2xvZ2luIiwiaWF0IjoxNzA2NjQzNTM2LCJleHAiOjE3MDY2NDcxMzYsIm5iZiI6MT
        cwNjY0MzUzNiwianRpIjoidjlSN29KdXNWUzJ1aFp6cSIsInN1YiI6IjMiLCJwcnYiOiIyM2JkNWM4OTQ5ZjYwMGFkYjM5ZTcwMWM0MDA4NzJk
        YjdhNTk3NmY3In0.wrqIa_AgwTf-SR7cl7tZk9LEL380I4AroJMCGoKcops",
    "token_type": "bearer",
    "expires_in": 3600
}
```

Authorized token



http://127.0.0.1:8000/api/login

POST http://127.0.0.1:8000/api/login

Type: Bearer T...

The authorization header will be automatically generated when you send the request. Learn more about Bearer Token authorization.

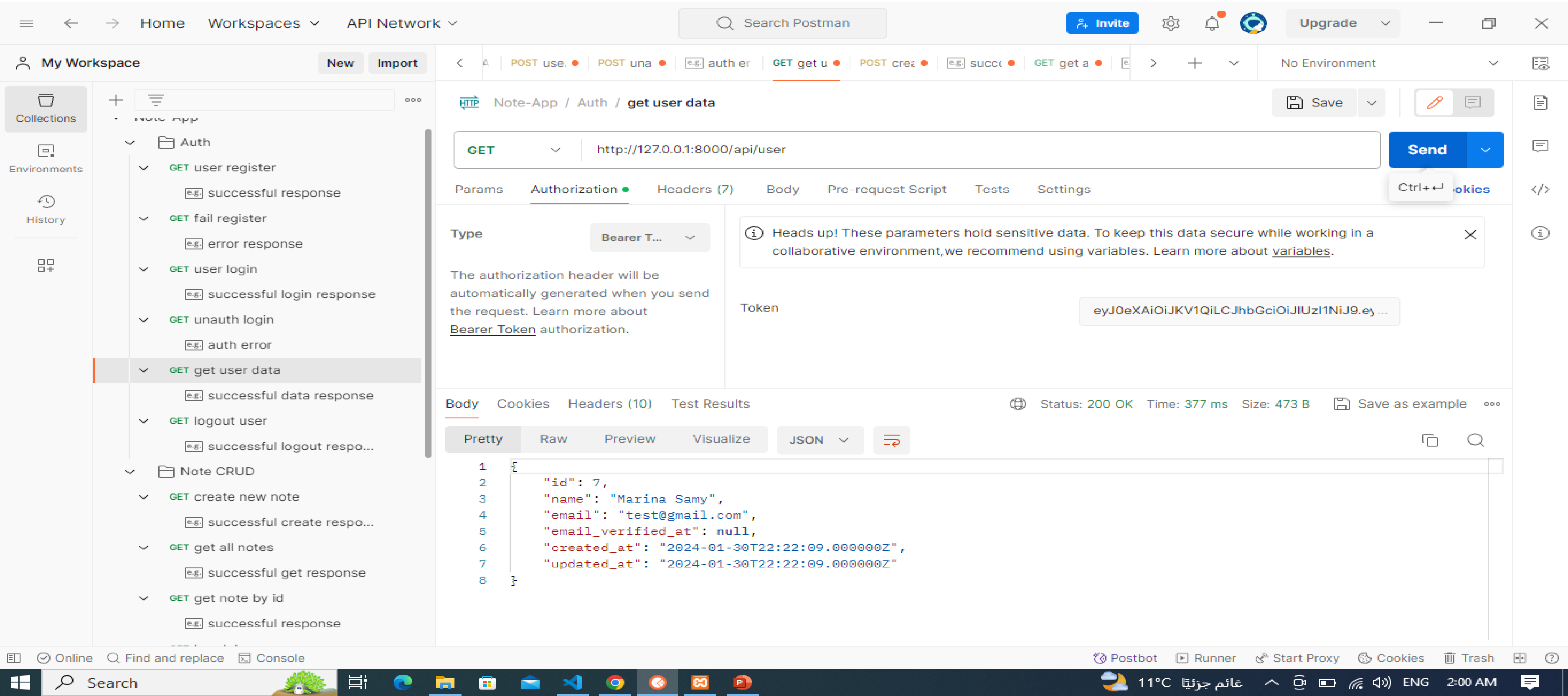
Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about variables.

Token: eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vMTI3LjAuMC4xOjgwMDAvYXBpL2xvZ2luIiwiaWF0IjoxNzA2NjQzNTM2LCJleHAiOjE3MDY2NDcxMzYsIm5iZiI6MTcwNjY0MzUzNiwianRpIjoidjlSN29KdXNWUzJ1aFp6cSIsInN1YiI6IjMiLCJwcnYiOiIyM2JkNWM

Status: 200 OK Time: 351 ms Size: 683 B

```
{
    "access_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.
        eyJpc3MiOiJodHRwOi8vMTI3LjAuMC4xOjgwMDAvYXBpL2xvZ2luIiwiaWF0IjoxNzA2NjQzNTM2LCJleHAiOjE3MDY2NDcxMzYsIm5iZiI6MT
        cwNjY0MzUzNiwianRpIjoidjlSN29KdXNWUzJ1aFp6cSIsInN1YiI6IjMiLCJwcnYiOiIyM2JkNWM4OTQ5ZjYwMGFkYjM5ZTcwMWM0MDA4NzJk
        YjdhNTk3NmY3In0.wrqIa_AgwTf-SR7cl7tZk9LEL380I4AroJMCGoKcops",
    "token_type": "bearer",
    "expires_in": 3600
}
```

Get auth user data



Note-App / Auth / get user data

GET http://127.0.0.1:8000/api/user

Params | Authorization | Headers (7) | Body | Pre-request Script | Tests | Settings

Type: Bearer T...

The authorization header will be automatically generated when you send the request. Learn more about Bearer Token authorization.

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment,we recommend using variables. Learn more about variables.

Token: eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.ey...

Auth
- GET user register
  - successful response
- GET fail register
  - error response
- GET user login
  - successful login response
- GET unauth login
  - auth error
- GET get user data
  - successful data response
- GET logout user
  - successful logout respo...

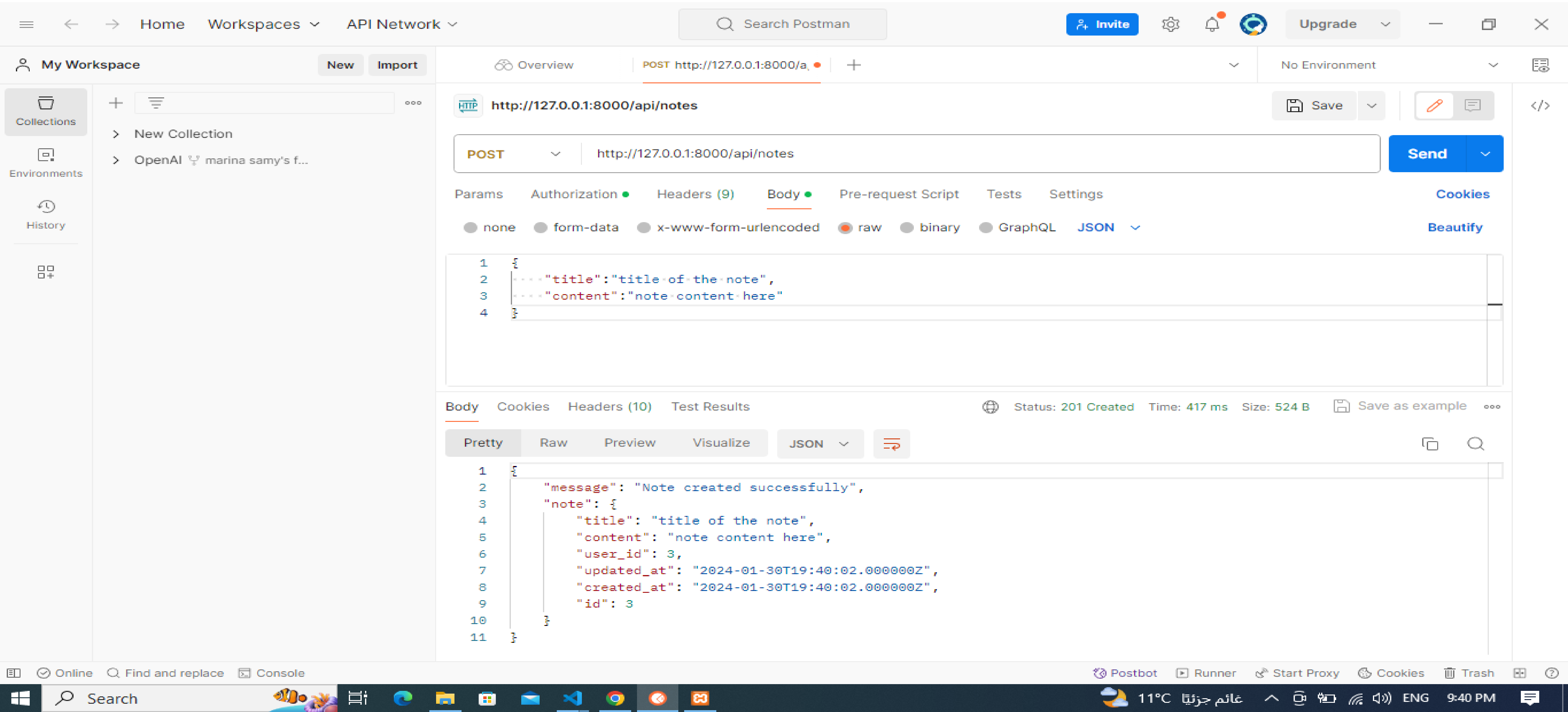
Note CRUD
- GET create new note
  - successful create respo...
- GET get all notes
  - successful get response
- GET get note by id
  - successful response

Body | Cookies | Headers (10) | Test Results — Status: 200 OK Time: 377 ms Size: 473 B — Save as example

Pretty | Raw | Preview | Visualize | JSON

```json
{
    "id": 7,
    "name": "Marina Samy",
    "email": "test@gmail.com",
    "email_verified_at": null,
    "created_at": "2024-01-30T22:22:09.000000Z",
    "updated_at": "2024-01-30T22:22:09.000000Z"
}
```

Create new note



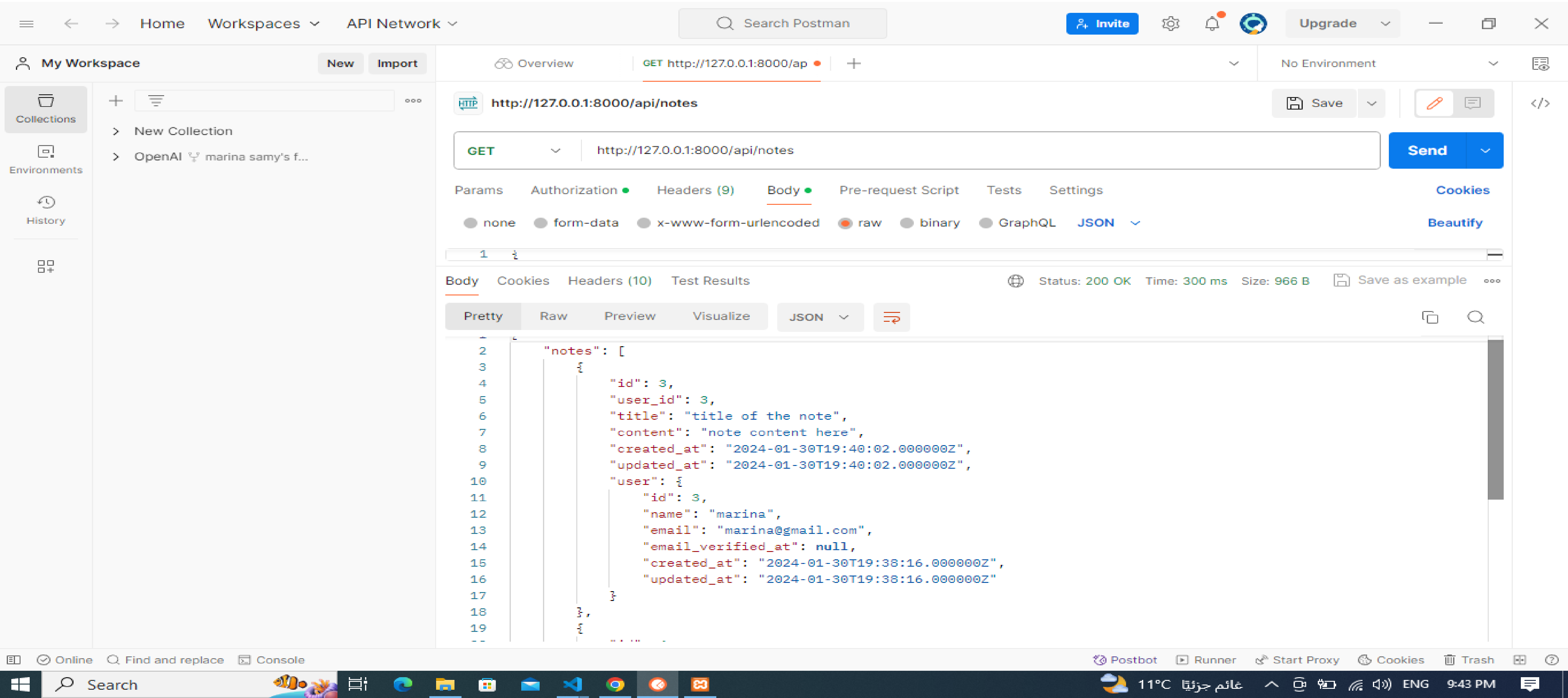
POST http://127.0.0.1:8000/api/notes

```
{
    "title":"title of the note",
    "content":"note content here"
}
```

Status: 201 Created Time: 417 ms Size: 524 B

```
{
    "message": "Note created successfully",
    "note": {
        "title": "title of the note",
        "content": "note content here",
        "user_id": 3,
        "updated_at": "2024-01-30T19:40:02.000000Z",
        "created_at": "2024-01-30T19:40:02.000000Z",
        "id": 3
    }
}
```

Get all notes of user



http://127.0.0.1:8000/api/notes

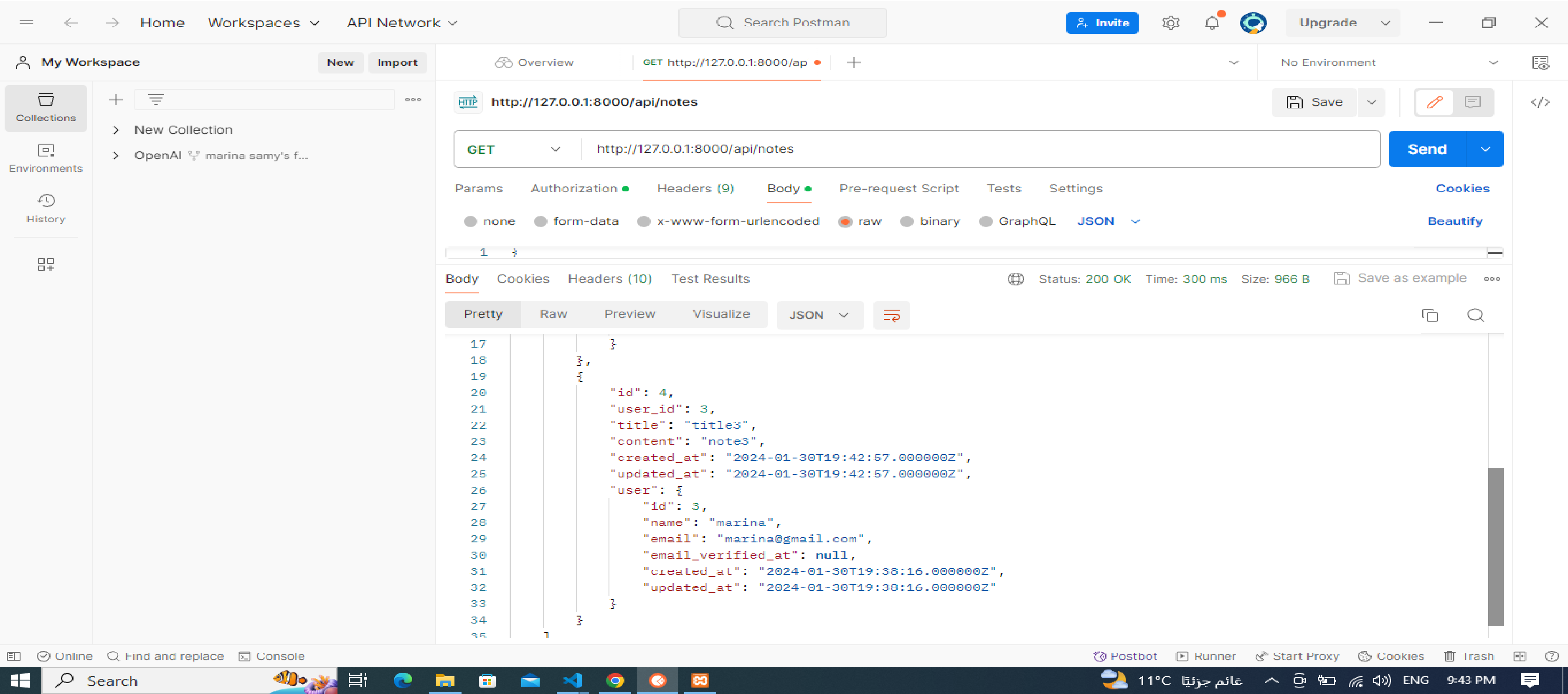
GET http://127.0.0.1:8000/api/notes

```
{
```

Status: 200 OK Time: 300 ms Size: 966 B

```
{
    "notes": [
        {
            "id": 3,
            "user_id": 3,
            "title": "title of the note",
            "content": "note content here",
            "created_at": "2024-01-30T19:40:02.000000Z",
            "updated_at": "2024-01-30T19:40:02.000000Z",
            "user": {
                "id": 3,
                "name": "marina",
                "email": "marina@gmail.com",
                "email_verified_at": null,
                "created_at": "2024-01-30T19:38:16.000000Z",
                "updated_at": "2024-01-30T19:38:16.000000Z"
            }
        },
        {
```

Get remain notes of user



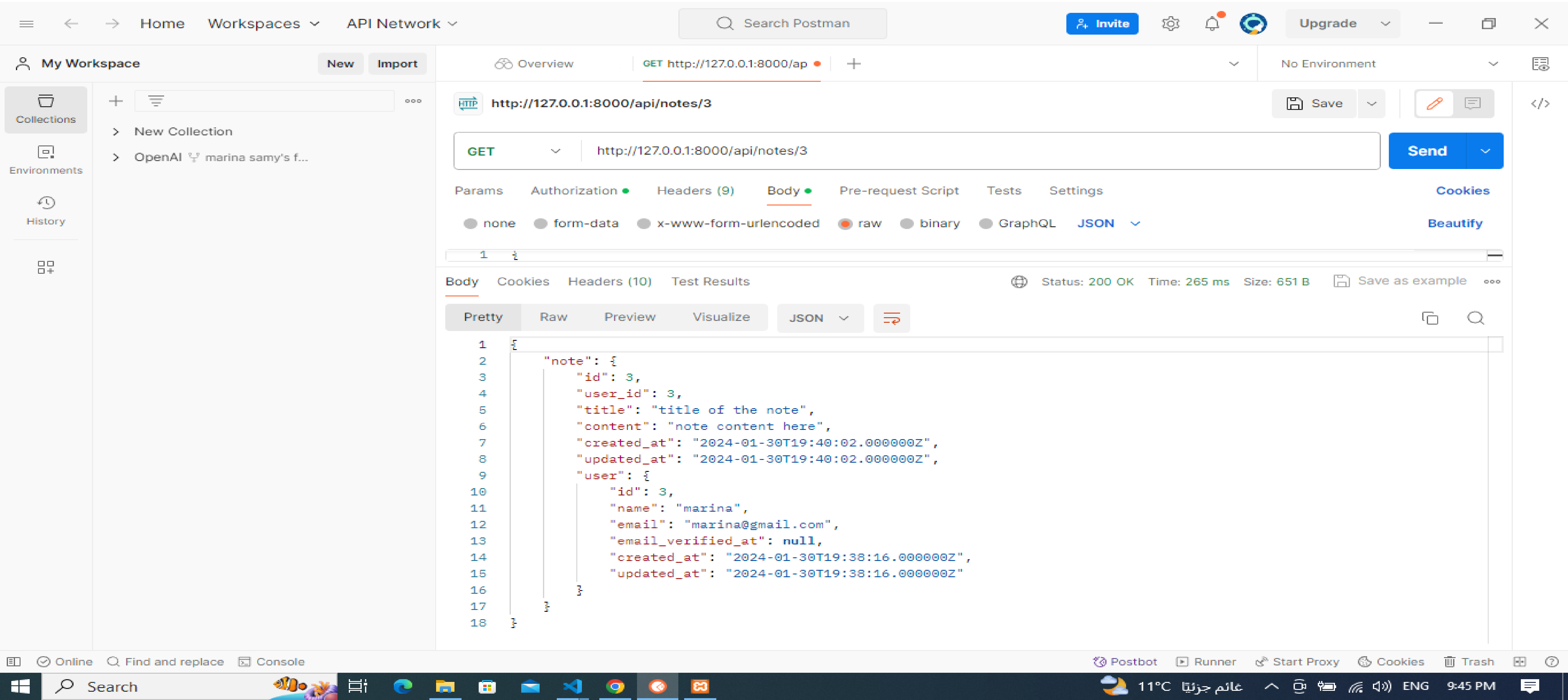
http://127.0.0.1:8000/api/notes

GET http://127.0.0.1:8000/api/notes

Status: 200 OK Time: 300 ms Size: 966 B

```
                }
            },
            {
                "id": 4,
                "user_id": 3,
                "title": "title3",
                "content": "note3",
                "created_at": "2024-01-30T19:42:57.000000Z",
                "updated_at": "2024-01-30T19:42:57.000000Z",
                "user": {
                    "id": 3,
                    "name": "marina",
                    "email": "marina@gmail.com",
                    "email_verified_at": null,
                    "created_at": "2024-01-30T19:38:16.000000Z",
                    "updated_at": "2024-01-30T19:38:16.000000Z"
                }
            }
        ]
```

Get specific note by id

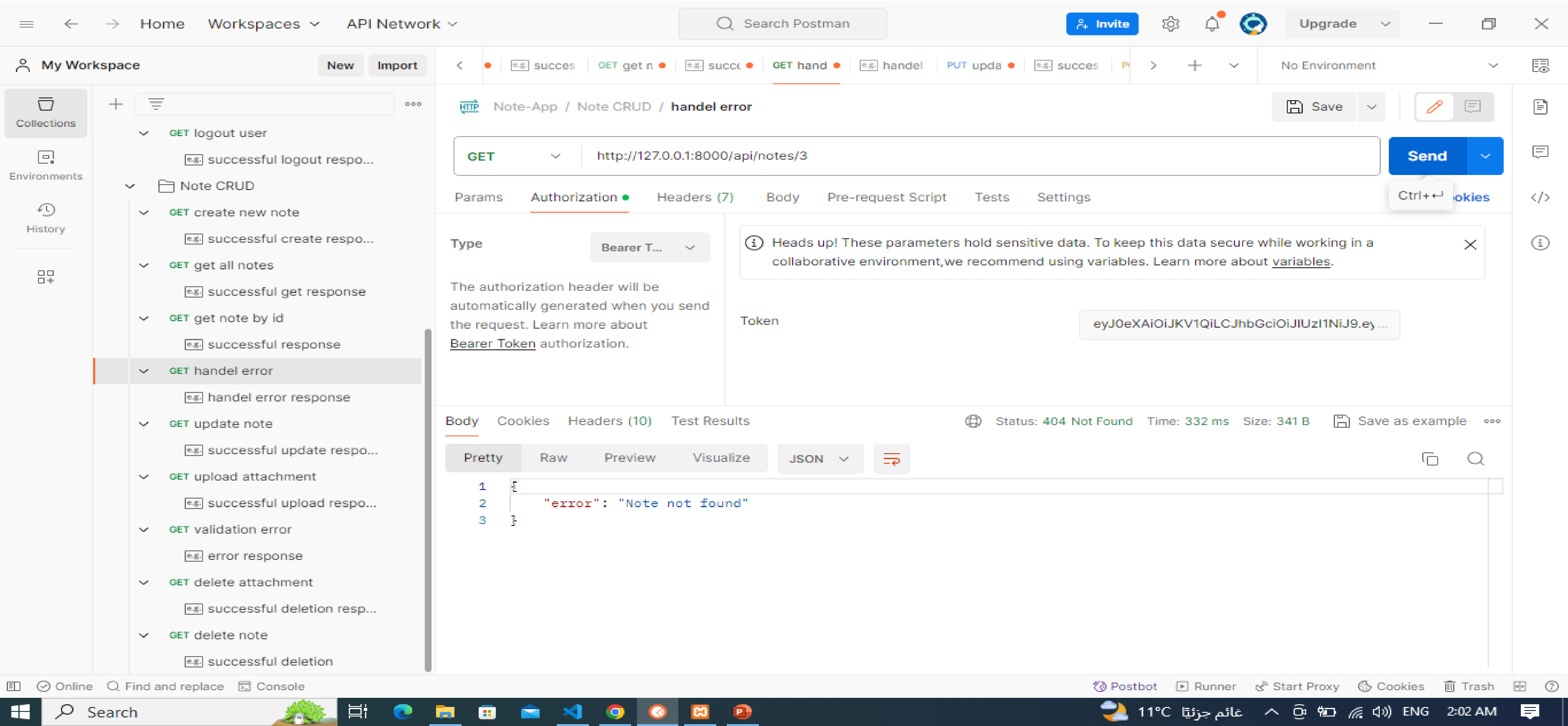


GET http://127.0.0.1:8000/api/notes/3

Status: 200 OK Time: 265 ms Size: 651 B

```
{
    "note": {
        "id": 3,
        "user_id": 3,
        "title": "title of the note",
        "content": "note content here",
        "created_at": "2024-01-30T19:40:02.000000Z",
        "updated_at": "2024-01-30T19:40:02.000000Z",
        "user": {
            "id": 3,
            "name": "marina",
            "email": "marina@gmail.com",
            "email_verified_at": null,
            "created_at": "2024-01-30T19:38:16.000000Z",
            "updated_at": "2024-01-30T19:38:16.000000Z"
        }
    }
}
```

Error handling


Note-App / Note CRUD / handel error

GET http://127.0.0.1:8000/api/notes/3

Authorization — Type: Bearer Token

Token: eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.ey...

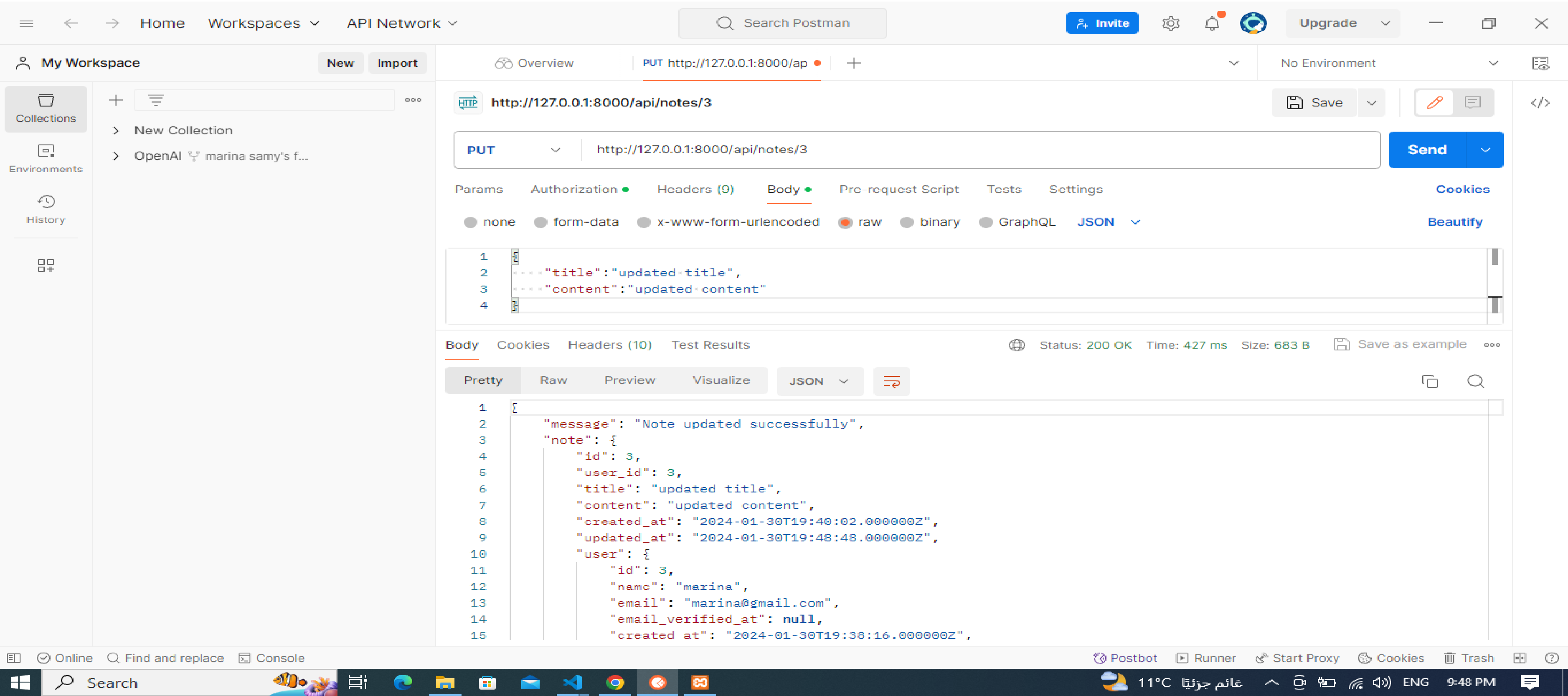
Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment,we recommend using variables. Learn more about variables.

The authorization header will be automatically generated when you send the request. Learn more about Bearer Token authorization.

Status: 404 Not Found Time: 332 ms Size: 341 B

```
{
    "error": "Note not found"
}
```

Update note by id



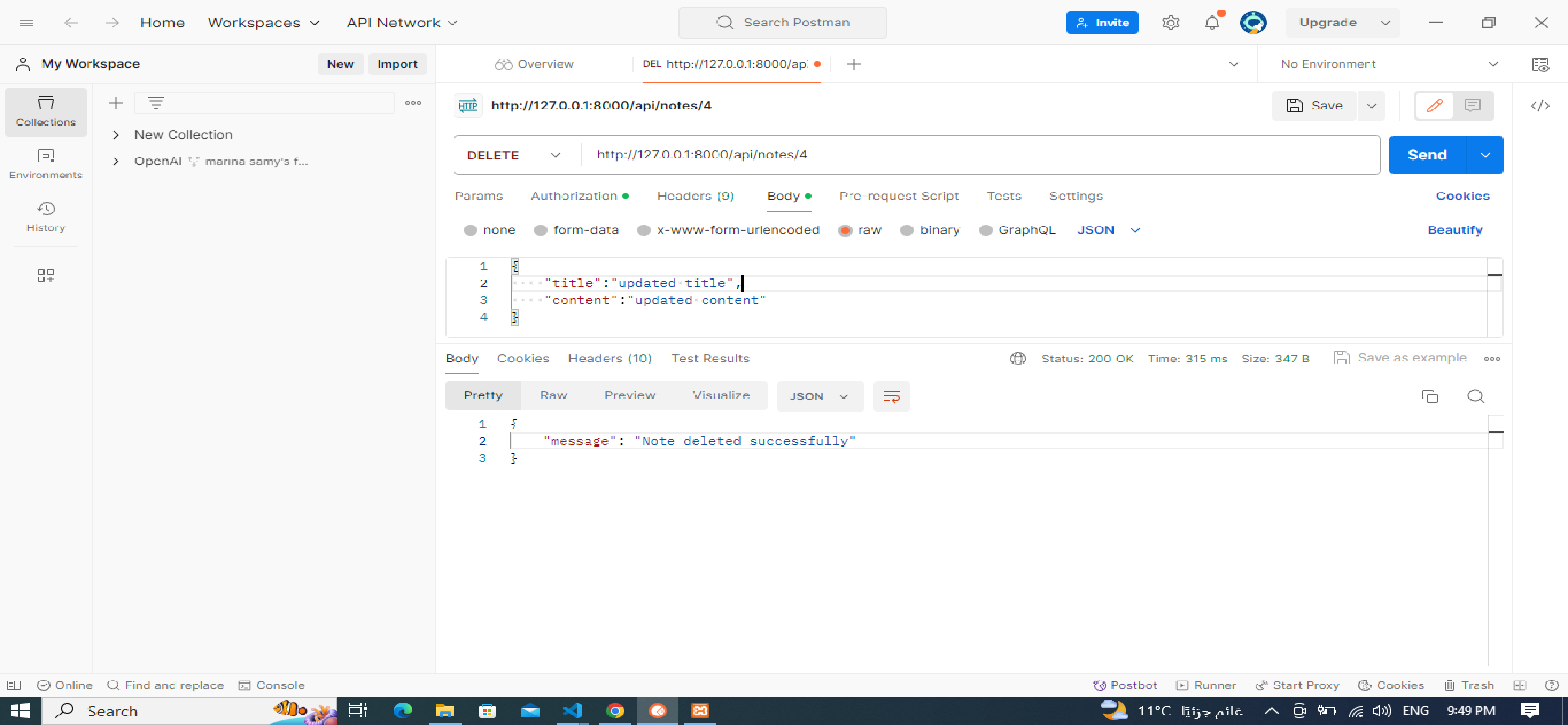
PUT http://127.0.0.1:8000/api/notes/3

```
{
    "title":"updated title",
    "content":"updated content"
}
```

Status: 200 OK Time: 427 ms Size: 683 B

```
{
    "message": "Note updated successfully",
    "note": {
        "id": 3,
        "user_id": 3,
        "title": "updated title",
        "content": "updated content",
        "created_at": "2024-01-30T19:40:02.000000Z",
        "updated_at": "2024-01-30T19:48:48.000000Z",
        "user": {
            "id": 3,
            "name": "marina",
            "email": "marina@gmail.com",
            "email_verified_at": null,
            "created_at": "2024-01-30T19:38:16.000000Z",
```

Delete note by id



http://127.0.0.1:8000/api/notes/4

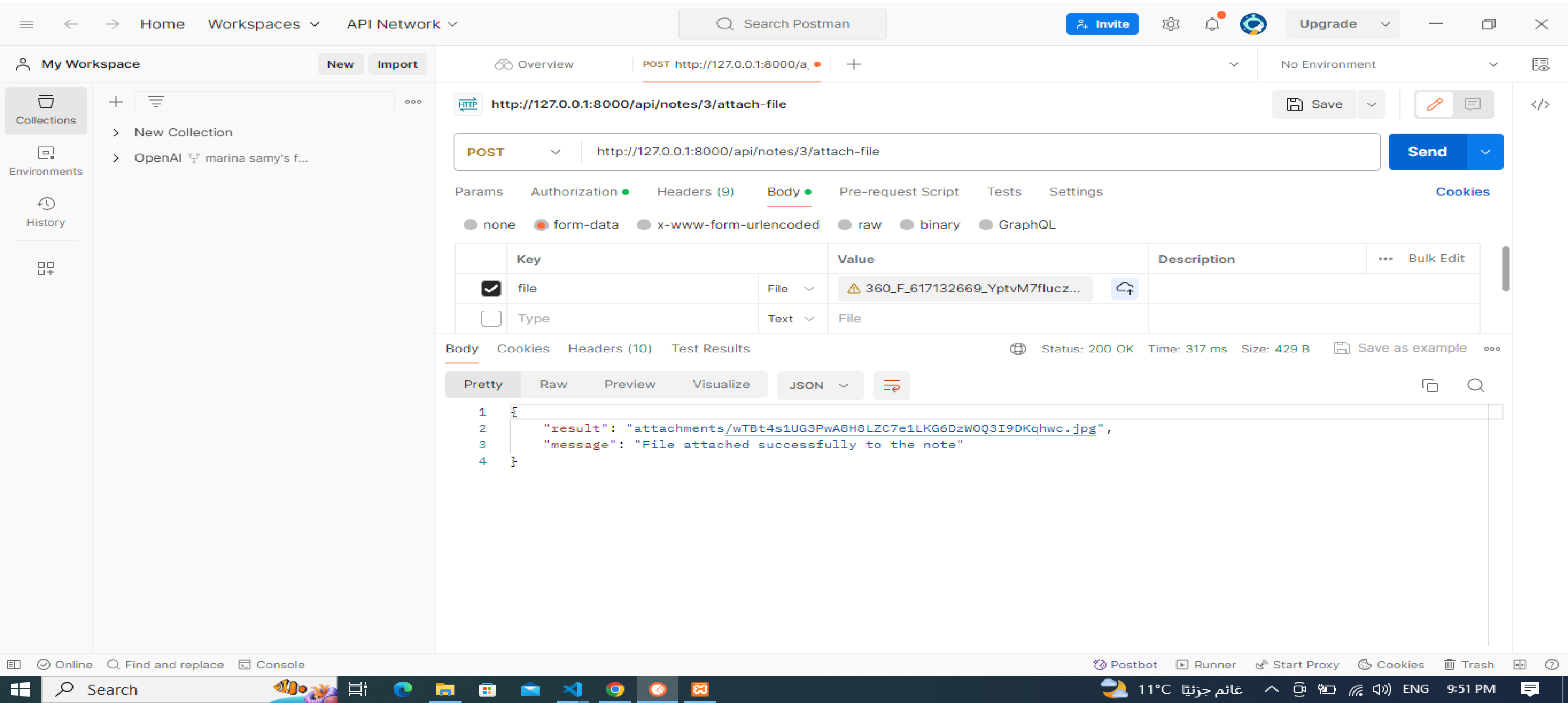
DELETE http://127.0.0.1:8000/api/notes/4

```
{
    "title":"updated title",
    "content":"updated content"
}
```

Status: 200 OK Time: 315 ms Size: 347 B

```
{
    "message": "Note deleted successfully"
}
```

Upload attach for note



POST http://127.0.0.1:8000/api/notes/3/attach-file

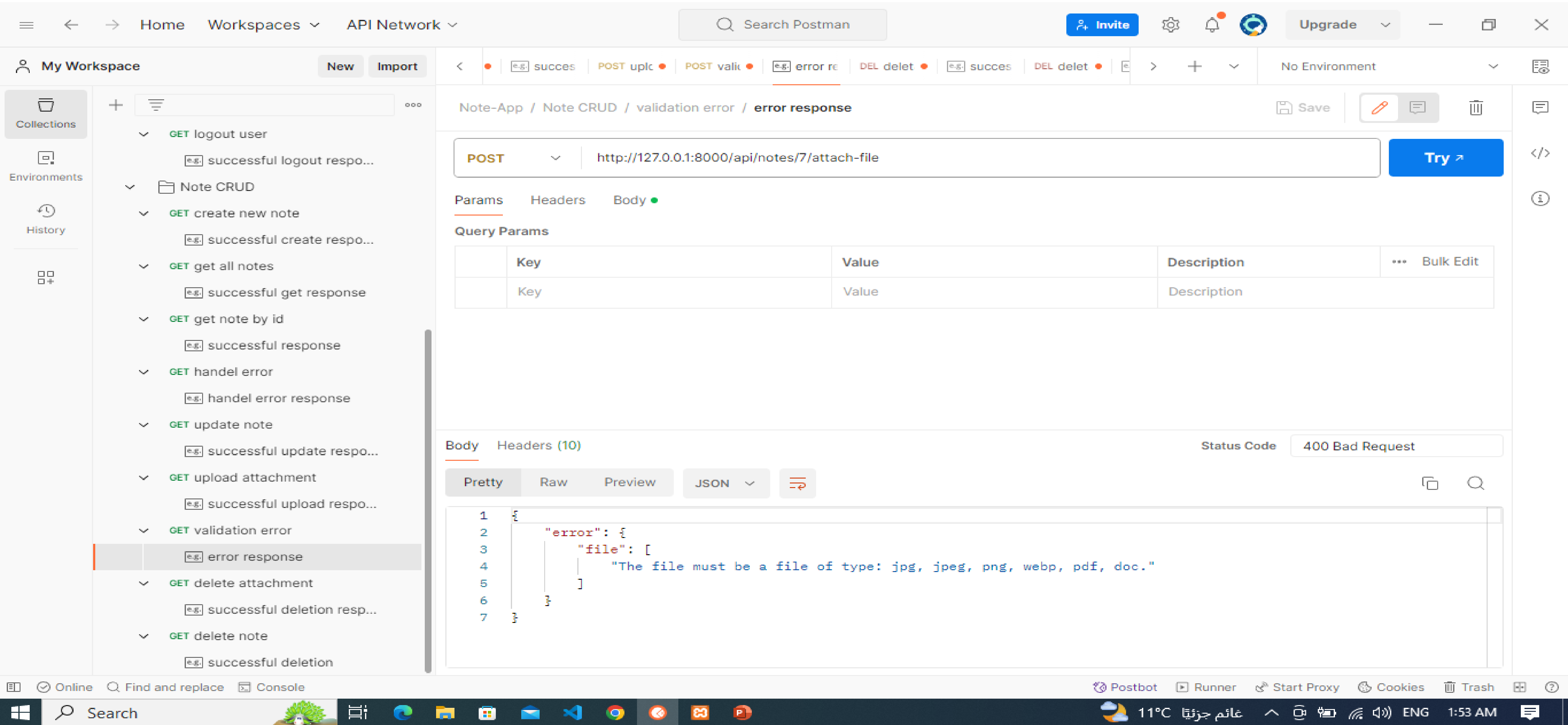
Body: form-data

Key		Value	Description
✓ file	File	360_F_617132669_YptvM7flucz...	
Type	Text	File	

Status: 200 OK Time: 317 ms Size: 429 B

```
{
    "result": "attachments/wTBt4s1UG3PwA8H8LZC7e1LKG6DzWOQ3I9DKqhwc.jpg",
    "message": "File attached successfully to the note"
}
```

Validation error attachment



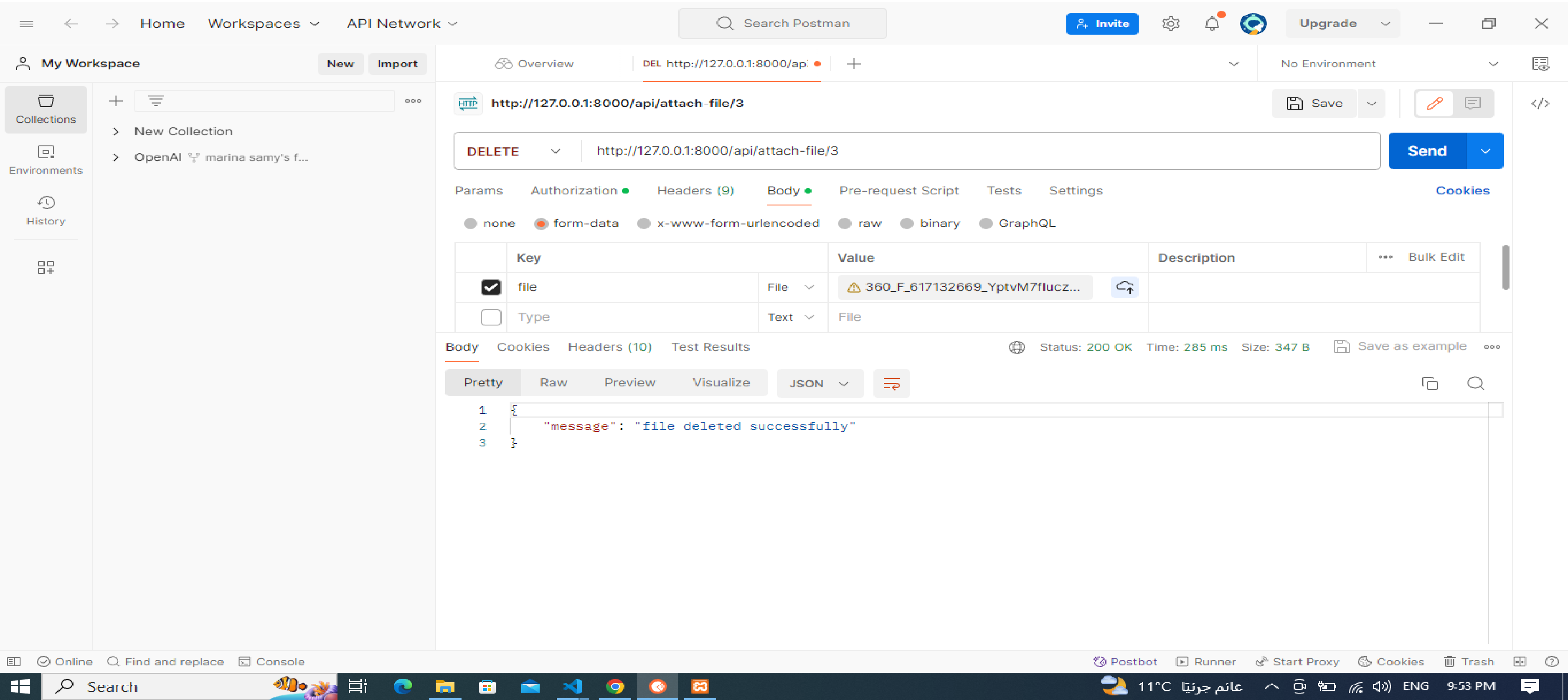
Note-App / Note CRUD / validation error / error response

POST http://127.0.0.1:8000/api/notes/7/attach-file

Status Code 400 Bad Request

```
{
    "error": {
        "file": [
            "The file must be a file of type: jpg, jpeg, png, webp, pdf, doc."
        ]
    }
}
```

Delete specific file by id



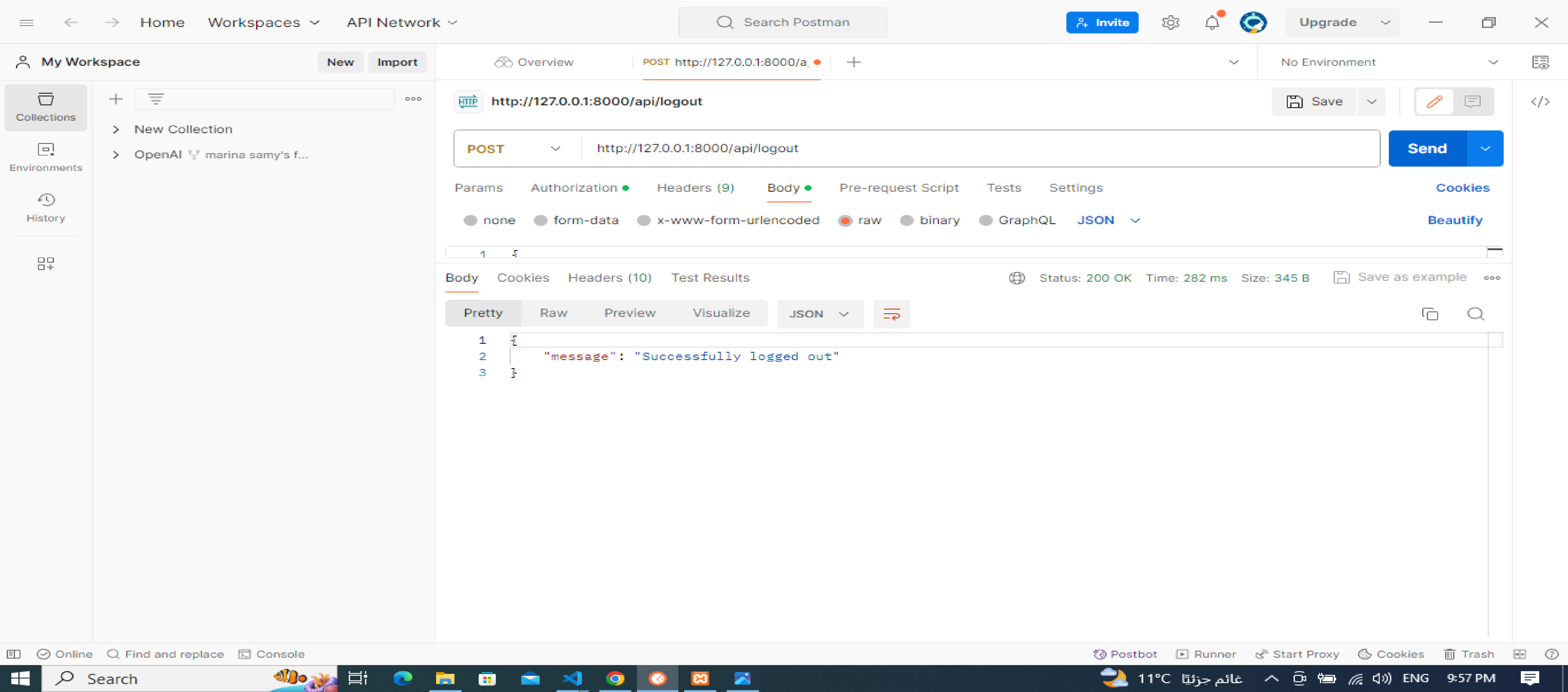
DELETE http://127.0.0.1:8000/api/attach-file/3

Key		Value	Description
✓ file	File	360_F_617132669_YptvM7flucz...	
Type	Text	File	

Status: 200 OK Time: 285 ms Size: 347 B

```
{
    "message": "file deleted successfully"
}
```

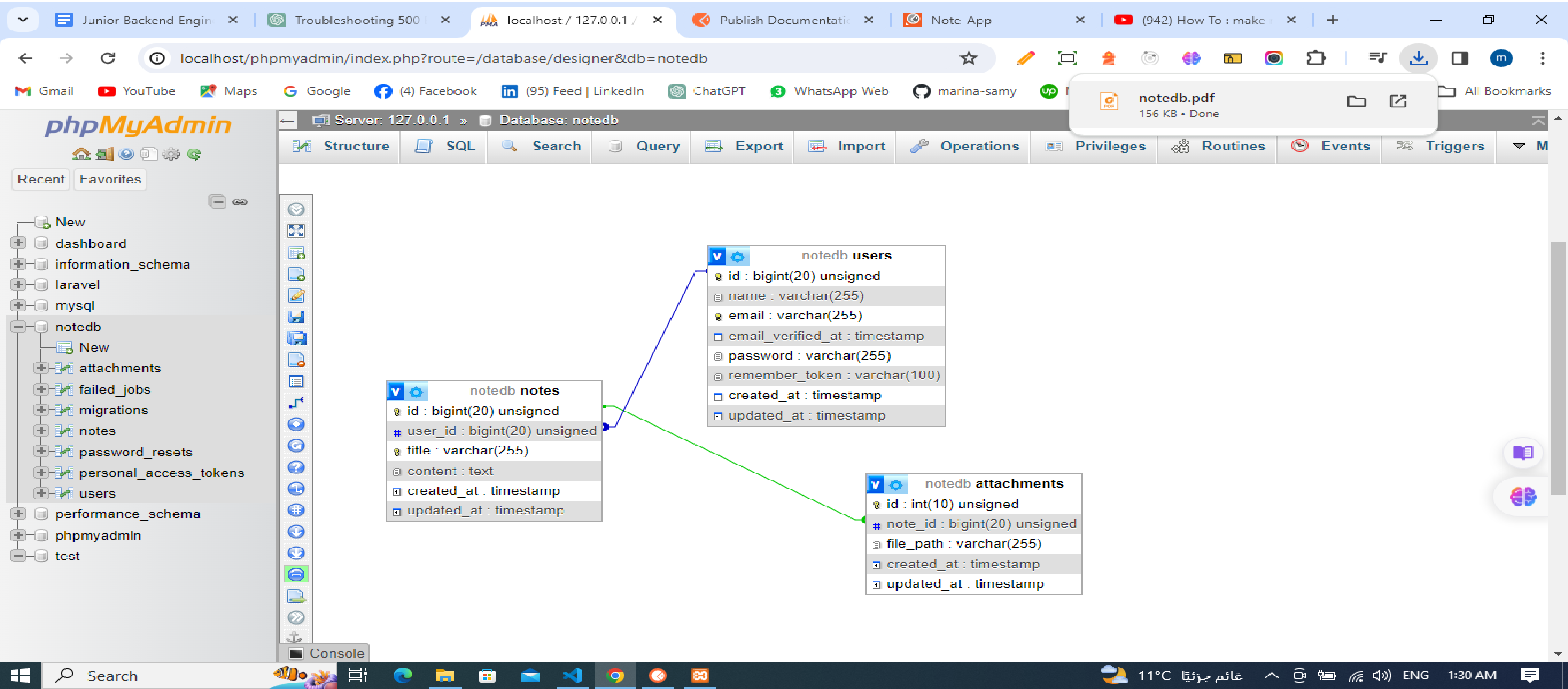
User logout


POST http://127.0.0.1:8000/api/logout

Status: 200 OK Time: 282 ms Size: 345 B

```
{
    "message": "Successfully logged out"
}
```

Database Schema



notedb users
- id : bigint(20) unsigned
- name : varchar(255)
- email : varchar(255)
- email_verified_at : timestamp
- password : varchar(255)
- remember_token : varchar(100)
- created_at : timestamp
- updated_at : timestamp

notedb notes
- id : bigint(20) unsigned
- user_id : bigint(20) unsigned
- title : varchar(255)
- content : text
- created_at : timestamp
- updated_at : timestamp

notedb attachments
- id : int(10) unsigned
- note_id : bigint(20) unsigned
- file_path : varchar(255)
- created_at : timestamp
- updated_at : timestamp

Database Relations

Creating 3 tables
1- user table
2- notes table
3- attachments table

User table has relation one to many with notes table
Notes table has relation one to many with attachments table

Making new table for attachments to allow user to upload more than one file for note not only one and replace it in column notes table