Backend for blog

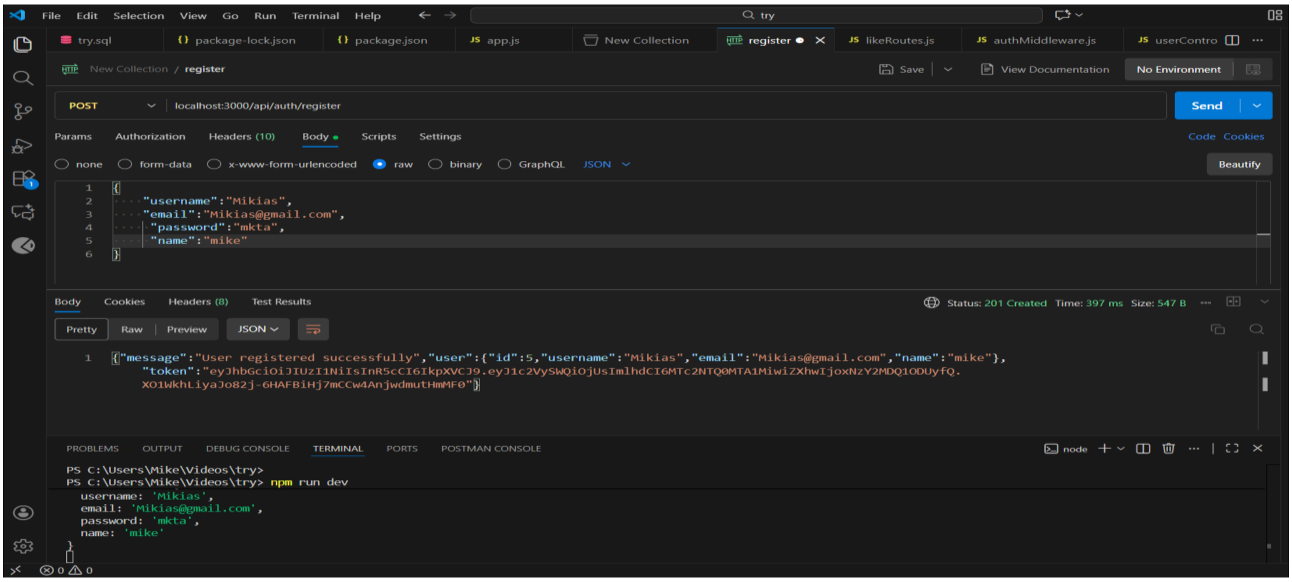
Libraries and tools used

- Node
- Express
- PostgreSQL(and pgadmin)
- CORS
- JWT
- Bcryp

Functionalities and Features

- User Registration and Login with JWT authentication
- Follow and Unfollow
- Create read update and delete blog
- Rate blog
- Create edit and delete comment on blogs
- like unlike blogs
- Search blog by title or by us**er**

All the mentioned functionalities and features have been implemented and tested using postman extesion on vs code and proved to be working, however from the required features I had trouble including profile pictures and did not include it, every other thing is done and here are few SELECTED screenshots.



POST localhost:3000/api/auth/register

Body: ○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

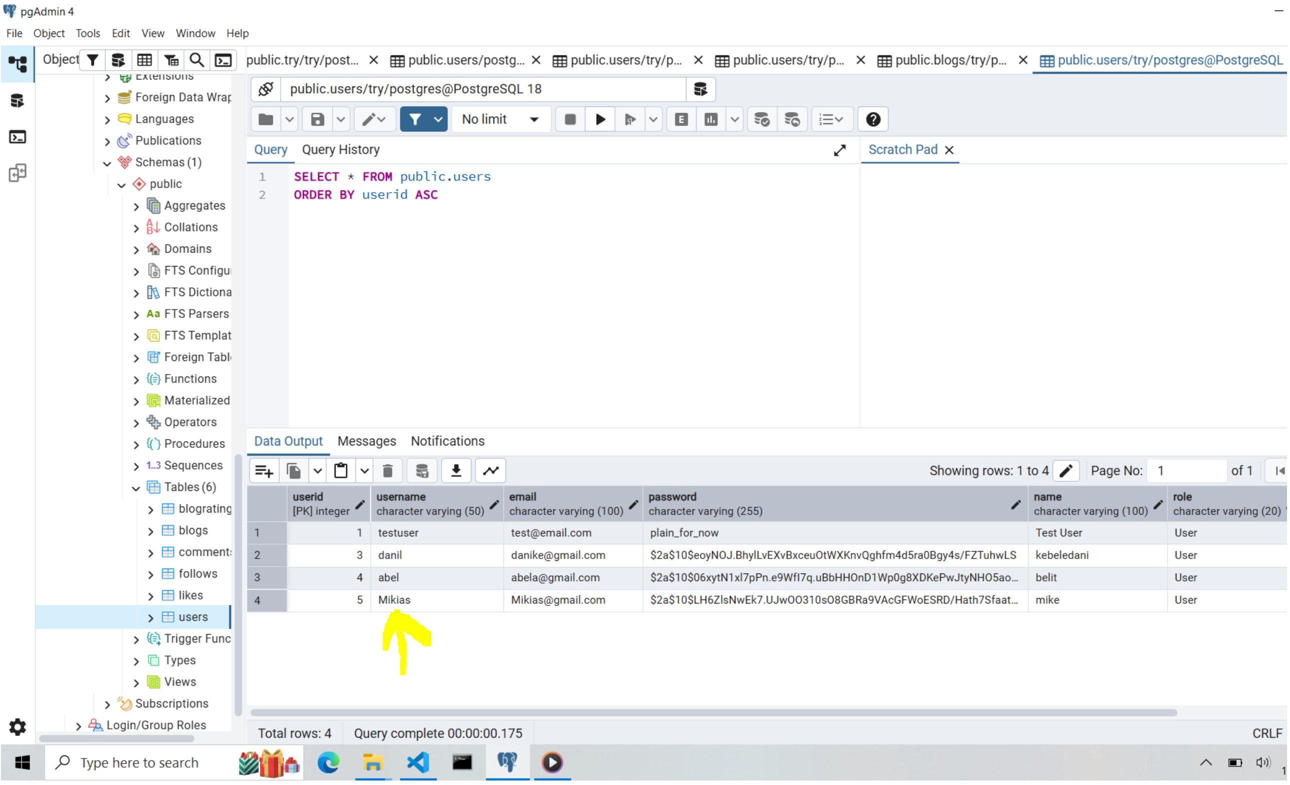
```json
{
    "username":"Mikias",
    "email":"Mikias@gmail.com",
     "password":"mkta",
     "name":"mike"
}
```

Status: 201 Created Time: 397 ms Size: 547 B

```
{"message":"User registered successfully","user":{"id":5,"username":"Mikias","email":"Mikias@gmail.com","name":"mike"},
    "token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VySWQiOjUsImlhdCI6MTc2NTQ0MTA1MiwiZXhwIjoxNzY2MDQ1ODUyfQ.
    XO1WkhLiyaJo82j-6HAFBiHj7mCCw4AnjwdmutHmMF0"}
```

```
PS C:\Users\Mike\Videos\try>
PS C:\Users\Mike\Videos\try> npm run dev
  username: 'Mikias',
  email: 'Mikias@gmail.com',
  password: 'mkta',
  name: 'mike'
}
```

register



public.users/try/postgres@PostgreSQL 18

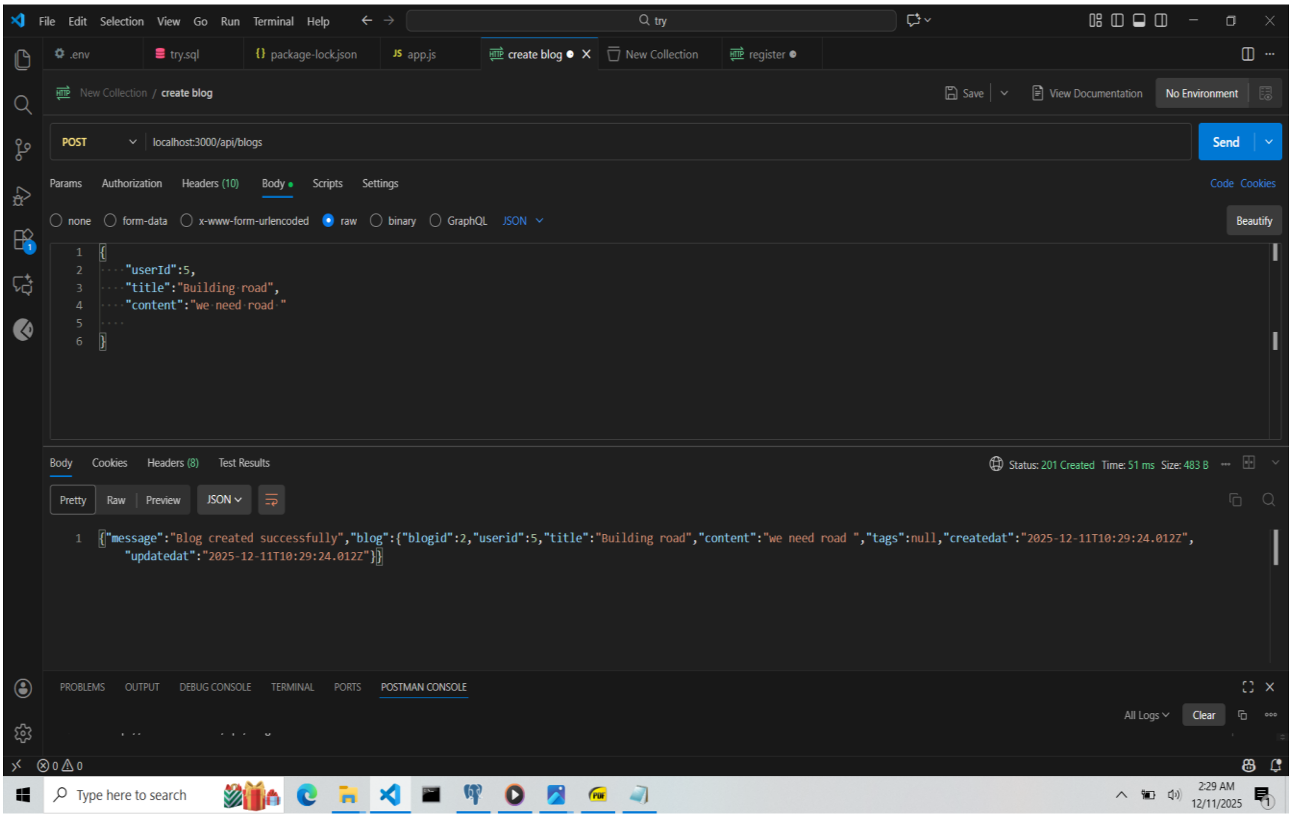
```
SELECT * FROM public.users
ORDER BY userid ASC
```

Showing rows: 1 to 4 Page No: 1 of 1

	userid [PK] integer	username character varying (50)	email character varying (100)	password character varying (255)	name character varying (100)	role character varying (20)
1	1	testuser	test@email.com	plain_for_now	Test User	User
2	3	danil	danike@gmail.com	$2a$10$eoyNOJ.BhylLvEXvBxceuOtWXKnvQghfm4d5ra0Bgy4s/FZTuhwLS	kebeledani	User
3	4	abel	abela@gmail.com	$2a$10$06xytN1xl7pPn.e9Wfl7q.uBbHHOnD1Wp0g8XDKePwJtyNHO5ao…	belit	User
4	5	Mikias	Mikias@gmail.com	$2a$10$LH6ZlsNwEk7.UJwO0310sO8GBRa9VAcGFWoESRD/Hath7Sfaat…	mike	User

Total rows: 4 Query complete 00:00:00.175

create blog



New Collection / create blog

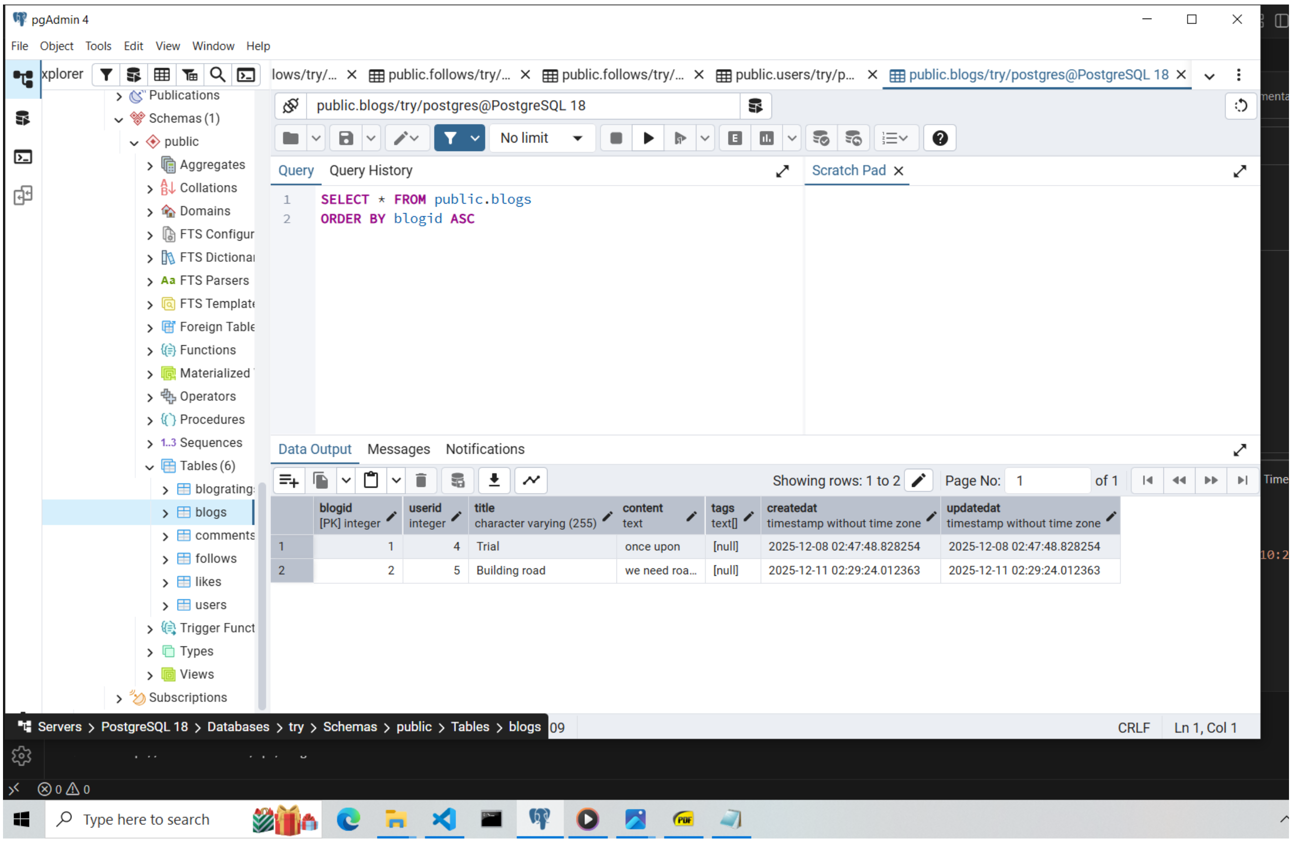
POST localhost:3000/api/blogs

```
{
    "userId":5,
    "title":"Building road",
    "content":"we need road "
    
}
```

Status: 201 Created Time: 51 ms Size: 483 B

```
{"message":"Blog created successfully","blog":{"blogid":2,"userid":5,"title":"Building road","content":"we need road ","tags":null,"createdat":"2025-12-11T10:29:24.012Z",
    "updatedat":"2025-12-11T10:29:24.012Z"}}
```

Blog created



public.blogs/try/postgres@PostgreSQL 18

```sql
SELECT * FROM public.blogs
ORDER BY blogid ASC
```

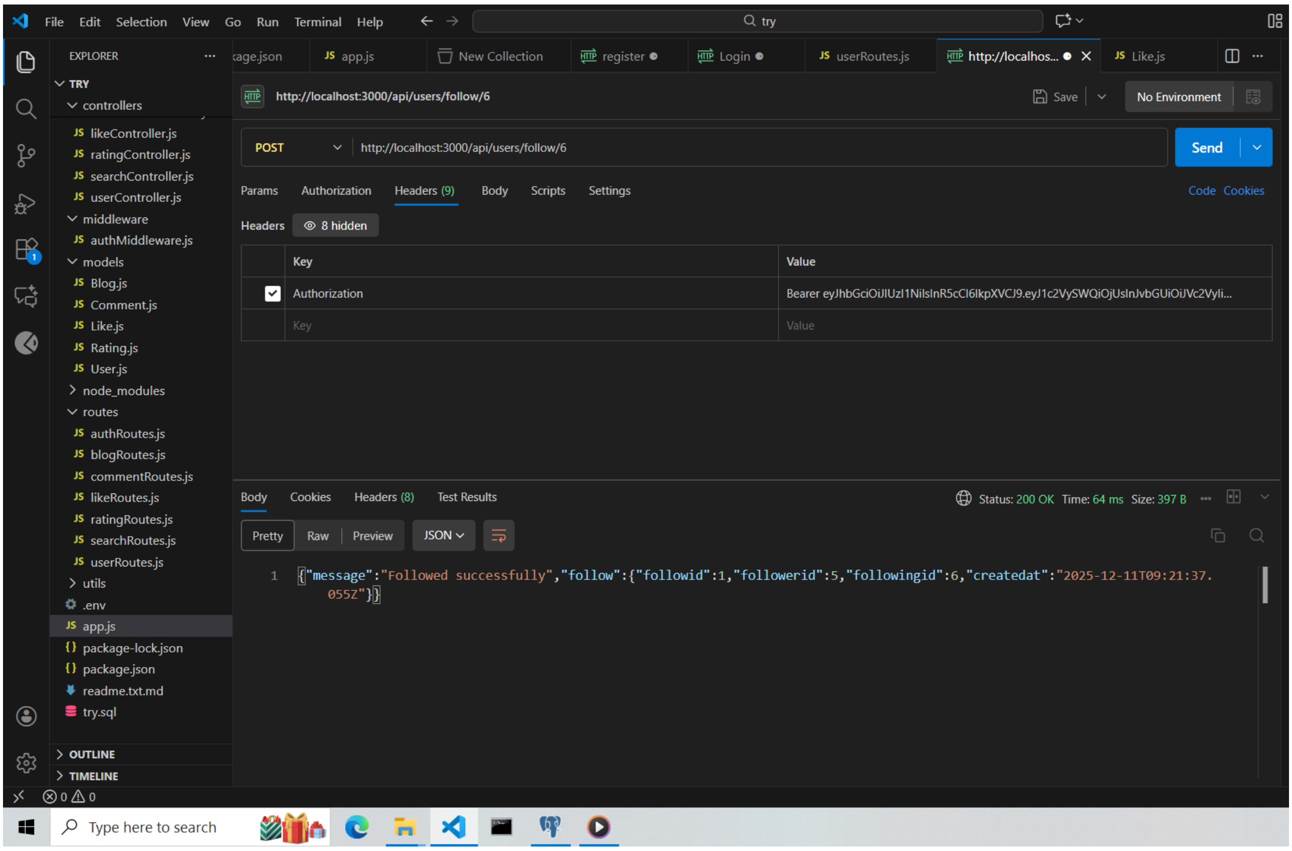
Data Output

Showing rows: 1 to 2 Page No: 1 of 1

	blogid [PK] integer	userid integer	title character varying (255)	content text	tags text[]	createdat timestamp without time zone	updatedat timestamp without time zone
1	1	4	Trial	once upon	[null]	2025-12-08 02:47:48.828254	2025-12-08 02:47:48.828254
2	2	5	Building road	we need roa...	[null]	2025-12-11 02:29:24.012363	2025-12-11 02:29:24.012363

Servers > PostgreSQL 18 > Databases > try > Schemas > public > Tables > blogs

then follow /unfollow



http://localhost:3000/api/users/follow/6

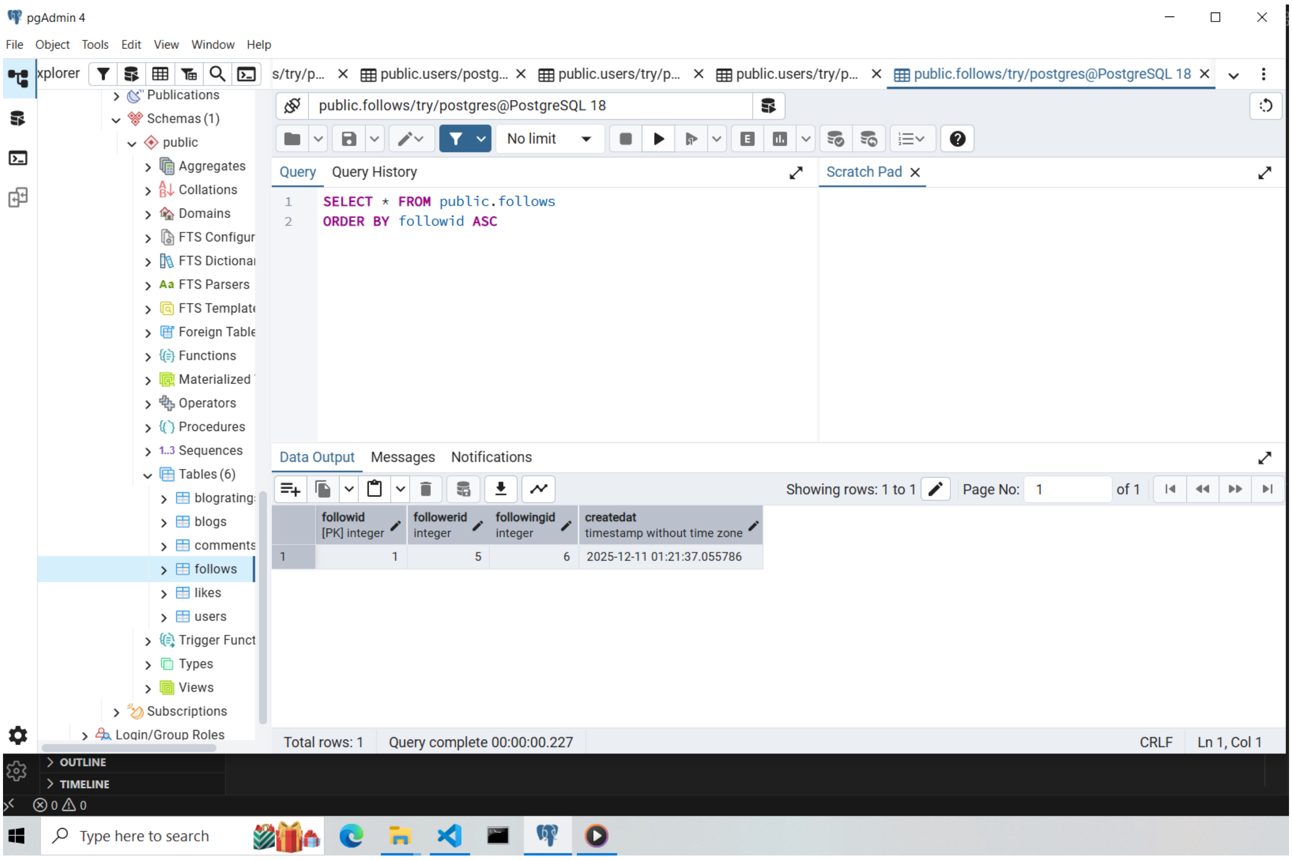
POST http://localhost:3000/api/users/follow/6

Headers (9)

	Key	Value
☑	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VySWQiOjUsInJvbGUiOiJVc2Vyli...

Status: 200 OK Time: 64 ms Size: 397 B

```json
{"message":"Followed successfully","follow":{"followid":1,"followerid":5,"followingid":6,"createdat":"2025-12-11T09:21:37.055Z"}}
```


public.follows/try/postgres@PostgreSQL 18

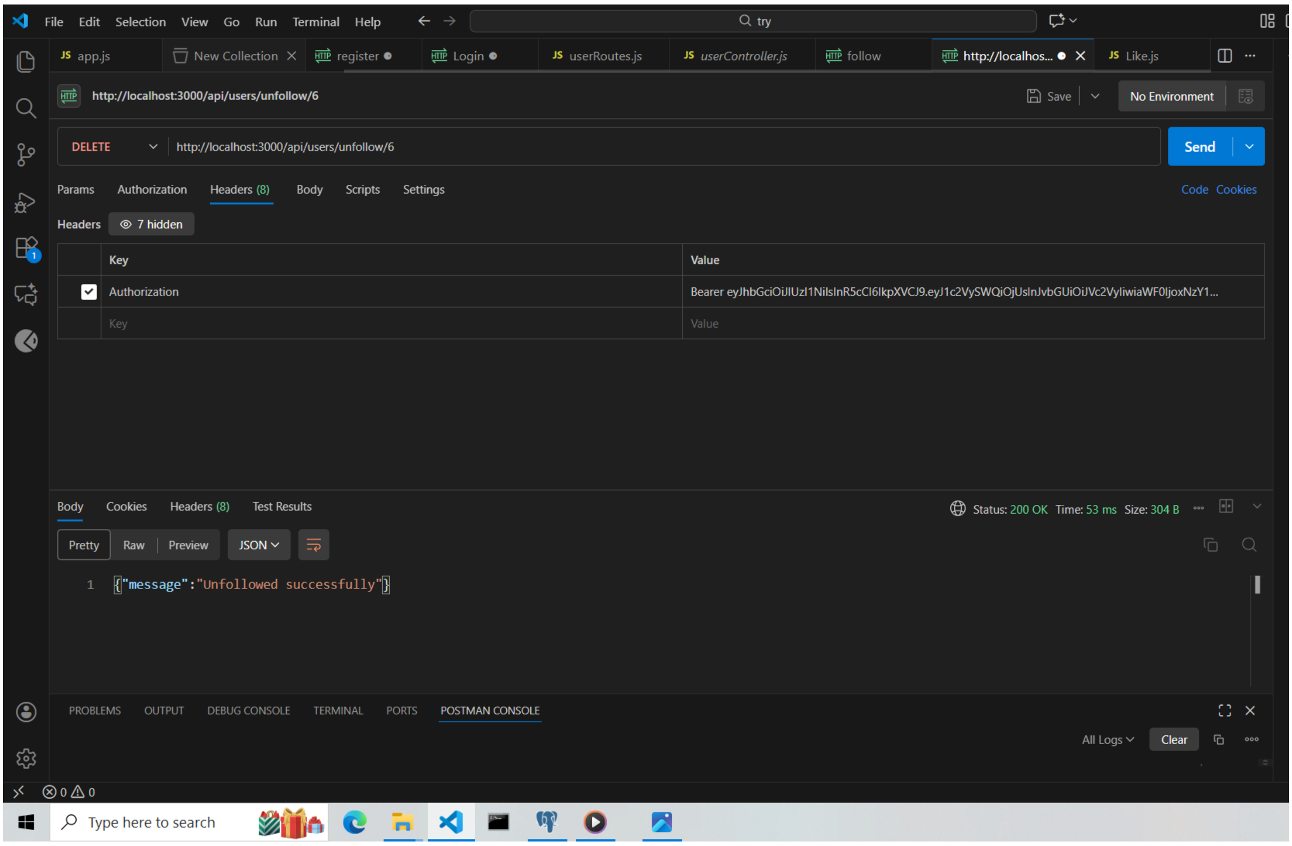
```
SELECT * FROM public.follows
ORDER BY followid ASC
```

Data Output

	followid [PK] integer	followerid integer	followingid integer	createdat timestamp without time zone
1	1	5	6	2025-12-11 01:21:37.055786

Showing rows: 1 to 1 Page No: 1 of 1

Total rows: 1 Query complete 00:00:00.227


DELETE http://localhost:3000/api/users/unfollow/6

Headers (8)

Key	Value
☑ Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VySWQiOjUsInJvbGUiOiJVc2VyIiwiaWF0IjoxNzY1...

Status: 200 OK Time: 53 ms Size: 304 B

```
{"message":"Unfollowed successfully"}
```

Ready to explain and answer questions.