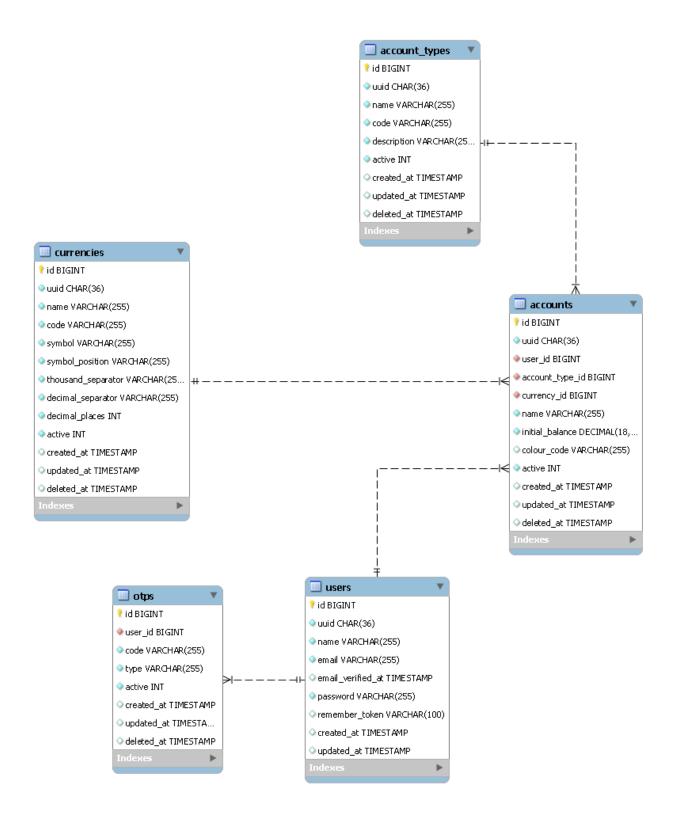
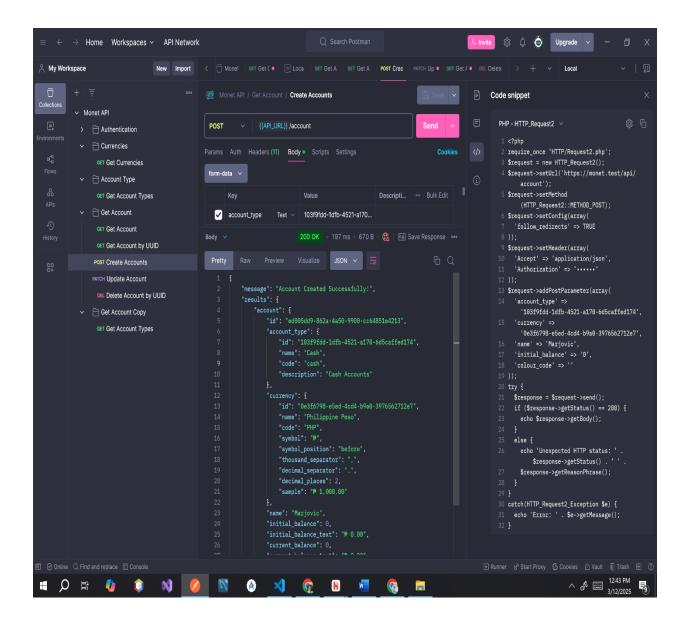
CRUD UI FRAMEWORK – we were working for it

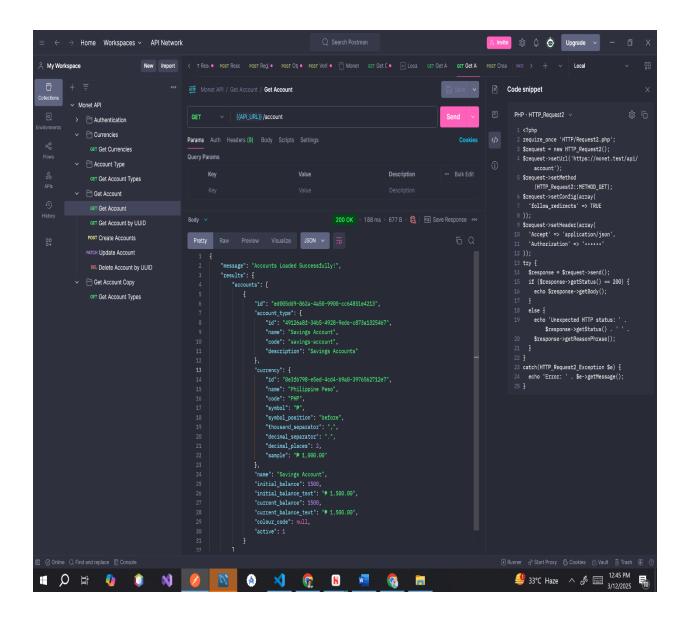
DATABASE SCHEMA DIAGRAM



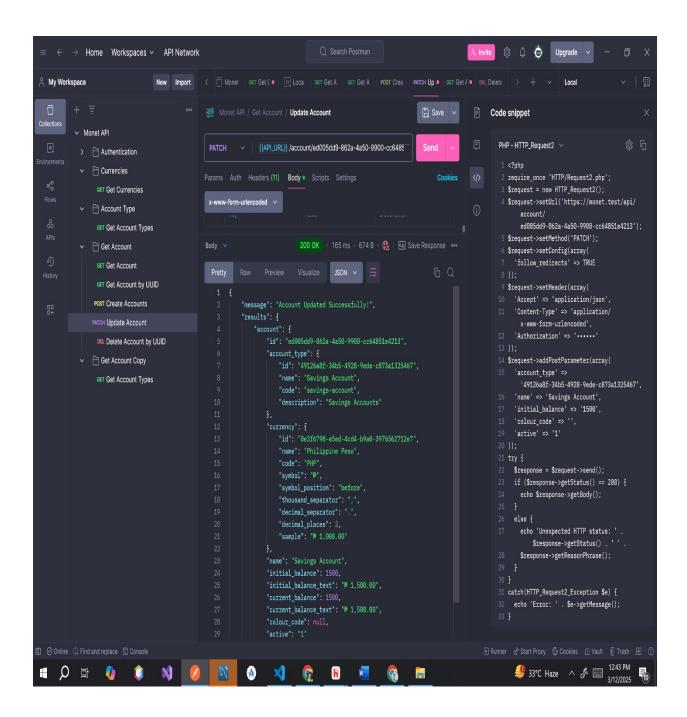
CREATE ACCOUNT



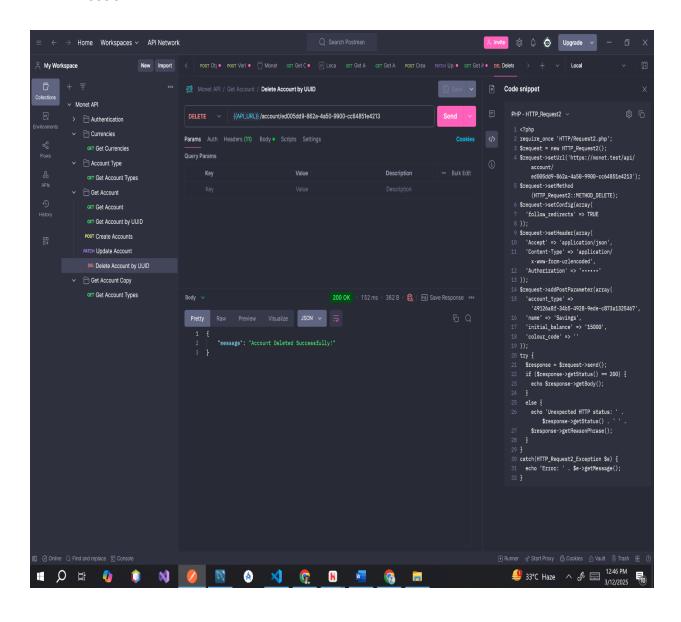
READ ACCOUNT



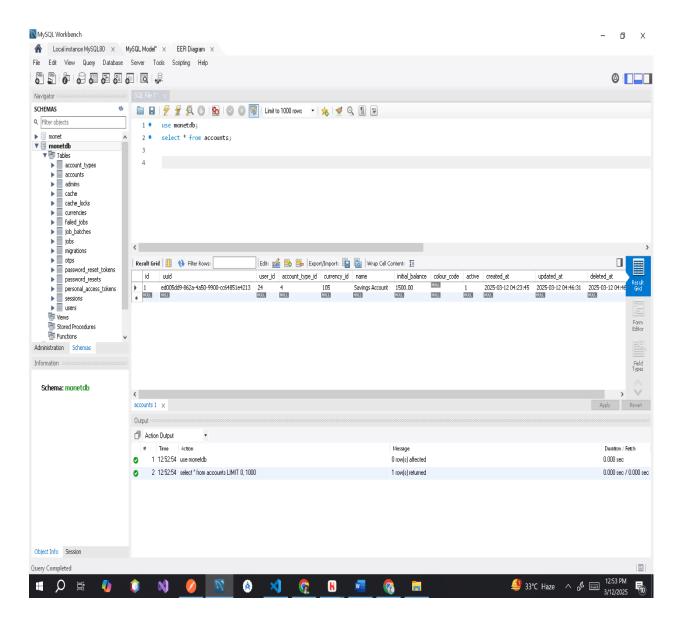
UPDATE ACCOUNT



DELETE ACCOUNT



Database



CHALLENGES AND SOLUTIONS

1. Issue: Incorrect API Endpoints

Challenge:

- You may enter the wrong API URL, leading to errors like 404 Not Found.
- Example: Sending requests to /user instead of /api/user.

Solution:

- Double-check the API documentation.
- Ensure the correct base URL and endpoints are used.

2. Issue: Incorrect HTTP Methods

Challenge:

- Using the wrong method (e.g., GET instead of POST).
- Sending a PUT request for creating instead of updating.

Solution:

- Follow CRUD principles:
 - Create → POST
 - o Read → GET
 - \circ Update \rightarrow PUT / PATCH
 - o Delete → DELETE

3. Issue: Missing or Incorrect Headers

Challenge:

- API requires headers like Content-Type: application/json, but they are missing.
- Authorization headers are required but not included.

Solution:

- Add required headers in Postman under the Headers tab.
- For authentication, include tokens using Authorization settings.

4. Issue: Incorrect JSON Data Format

Challenge:

- Sending malformed JSON causes 400 Bad Request errors.
- Example of incorrect JSON:
- { "name": "John, "age": 25 }

Solution:

- Always validate JSON before sending.
- Use Postman's Prettify feature to format JSON properly.

5. Issue: Database Not Updating

Challenge:

- POST or PUT requests succeed but do not update the database.
- API might return a success response, but changes don't reflect.

Solution:

- Check server logs for errors.
- Ensure API is correctly handling data and committing changes to the database.

6. Issue: CORS Policy Errors

Challenge:

• If testing with a frontend, you might get CORS (Cross-Origin Resource Sharing) issues.

Solution:

- Enable CORS on the backend.
- Use a CORS extension in the browser for local testing.

7. Issue: Authentication & Authorization Errors

Challenge:

• API requires authentication, but token is missing or expired.

Solution:

• Obtain a fresh authentication token.

• Use Postman's Authorization tab to add API keys, JWT tokens, or OAuth credentials.

8. Issue: Unexpected API Response

Challenge:

• The API returns an unexpected response (wrong data or errors).

Solution:

- Debug using Postman's Console (Ctrl + Alt + C) to inspect request details.
- Compare request and response data.