Backend Assessment

Framework used:

- FastAPI (along with Uvicorn ASGI web server)
- SQLAlchemy ORM for database queries
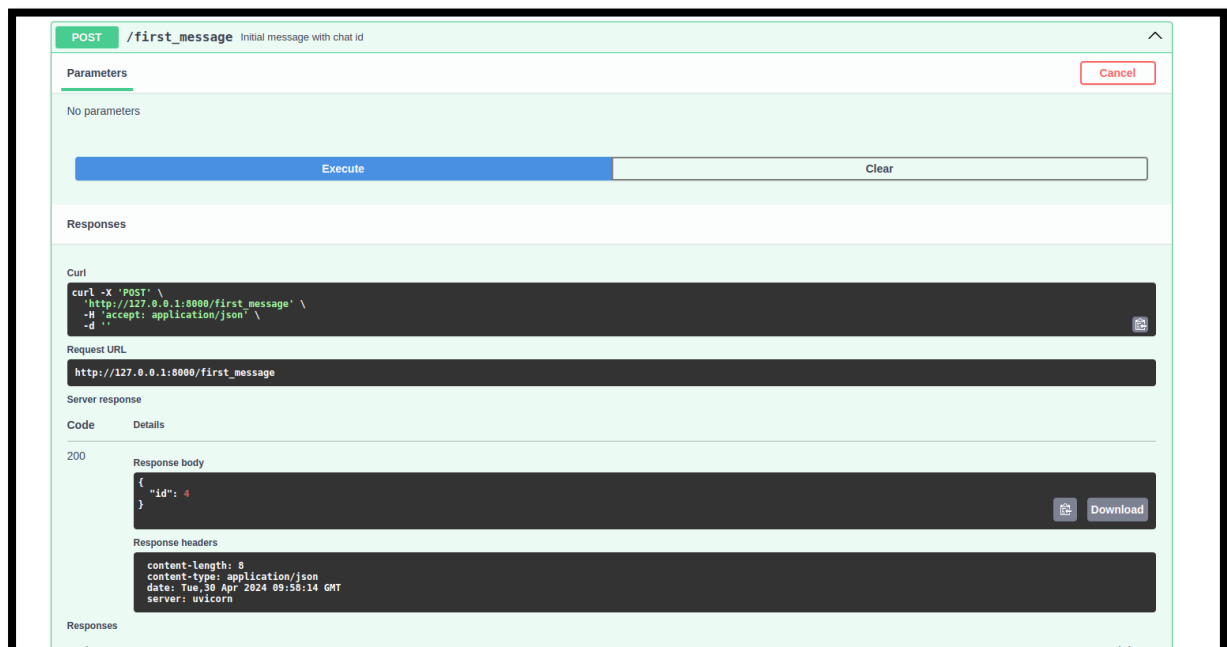
Database used: PostgreSQL

Two models created for Chat and Message Table:

- **Chat Table:**
    - **Column1:** chat_id (primary key)
    - **Column2:** message array
- **Message Table:**
    - **Column1:** id
    - **Column2:** chat_id (foreign key)
    - *... (rest of the details such as sender, message, datetime)*
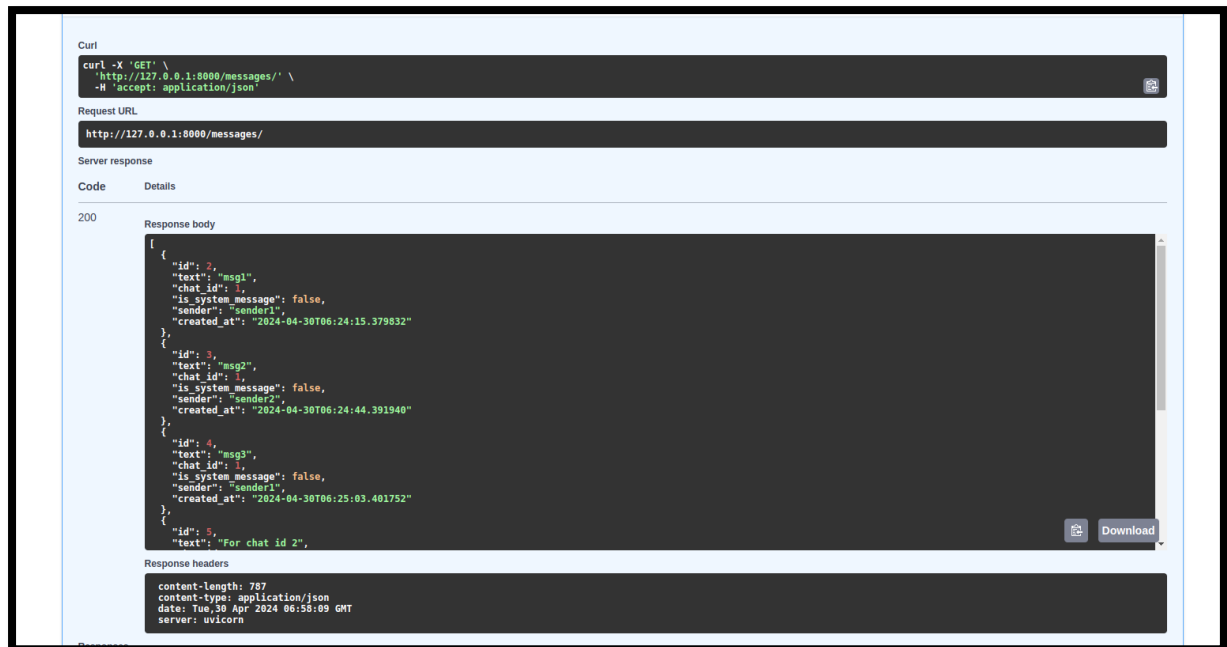
Endpoints:

1. **Endpoint:** `/first_message`
    - **Method:** POST
    - **Description:** To initialize the chat along with chat_id and make an entry in the chat table.
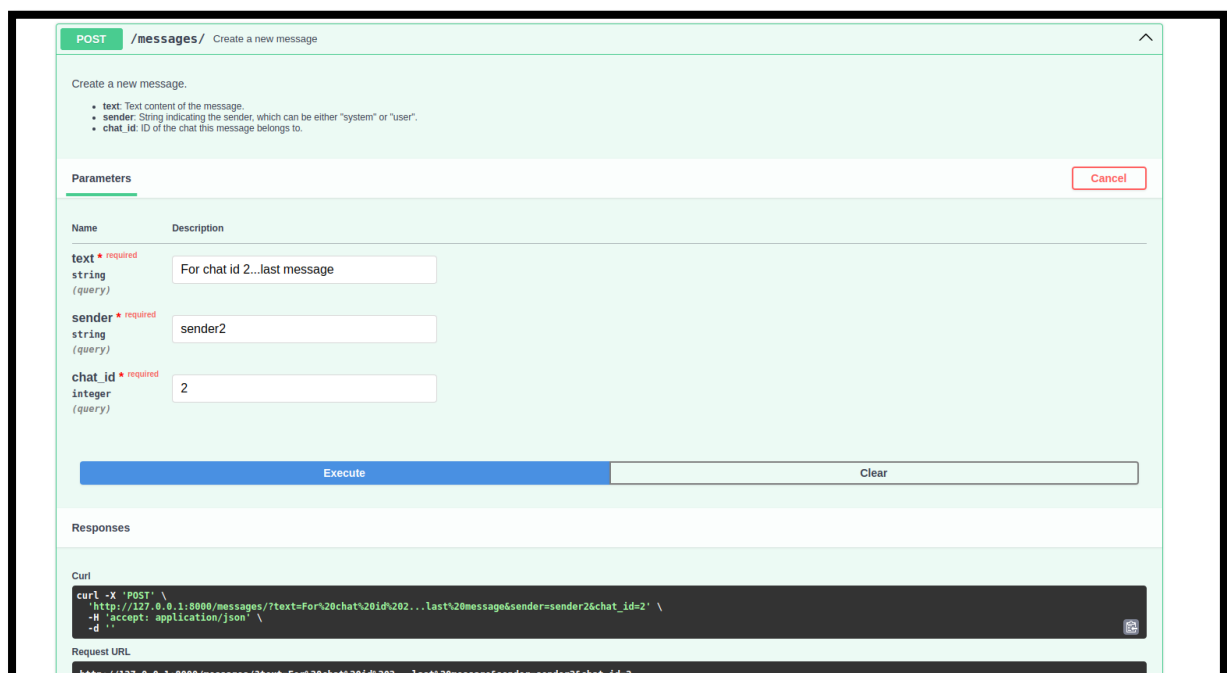
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2. **Endpoint:** `/messages`
   - **Method:** GET
   - **Description:** To retrieve the entire message array.

3. **Endpoint:** `/messages`
   - **Method:** POST
   - **Description:** To begin the chat entry in the message table.

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4. **Endpoint:** `/last_message/{chat_uuid}`
   - **Method:** GET
   - **Description:**
     - Requires chat_id as a parameter.
     - It retrieves the last message of the specified chat_id in the response.