

Backend Assessment

Framework used:

- FastAPI (along with Uvicorn ASGI web server)
- SQLAlchemy ORM for database queries

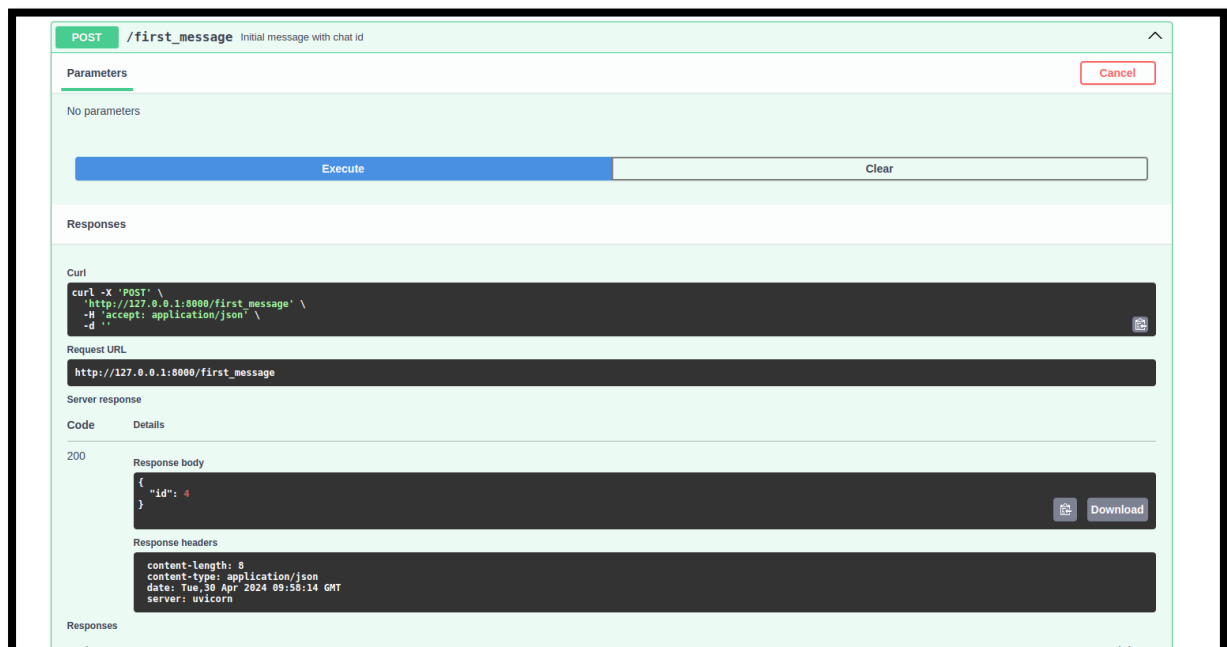
Database used: PostgreSQL

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:

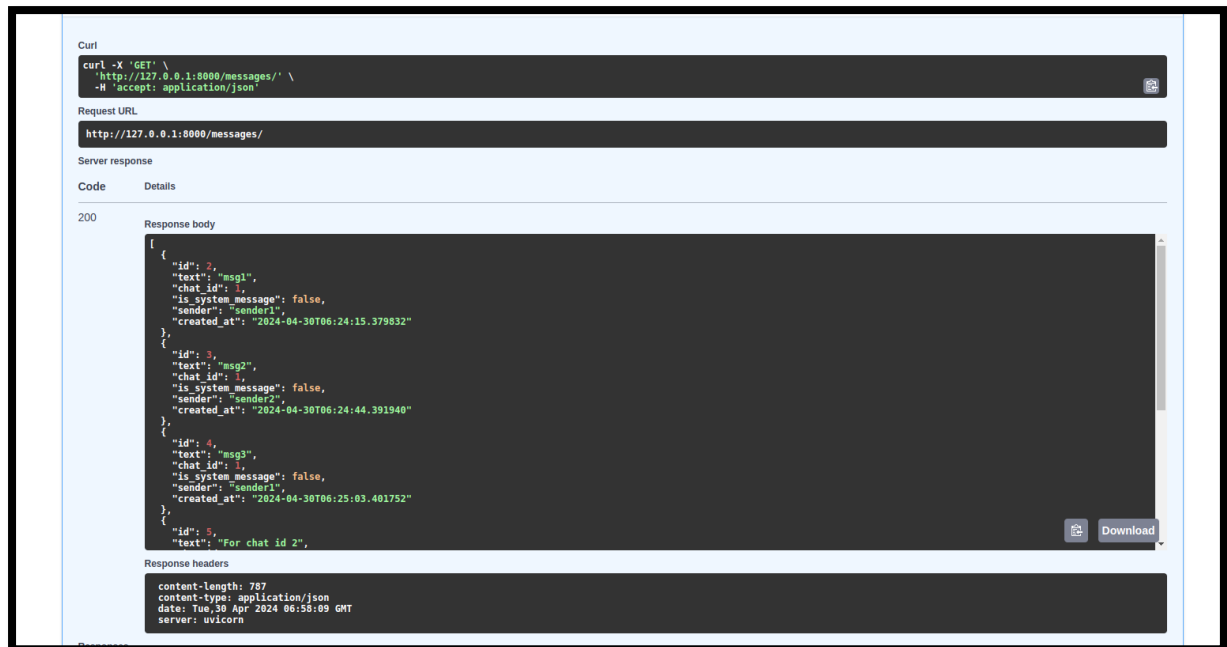
1. **Endpoint:** /first_message
 - **Method:** POST
 - **Description:** To initialize the chat along with chat_id and make an entry in the chat table.



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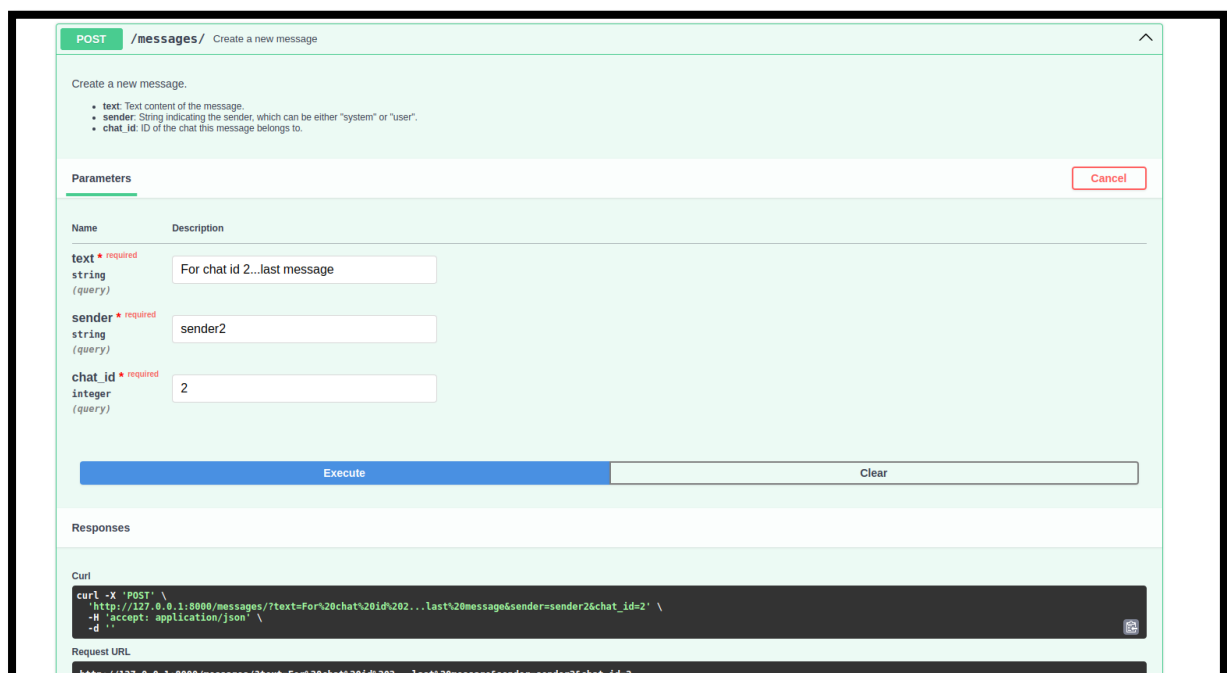
2. Endpoint: /messages

- **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.

GET /last_message/{chat_uuid} Retrieve last message from a user in a chat

Retrieve the last message from a user in a chat by its UUID.

- chat_uuid: UUID of the chat to retrieve the last message from.

Parameters Cancel

| Name | Description |
|---------------------------------|-------------|
| chat_uuid required | |
| integer | |
| (path) | |

1

Execute **Clear**

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/last_message/1' \
  -H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/last_message/1
```

Server response

Code **Details**

200

Response body

```
{
  "text": "msg3",
  "sender": "sender1",
  "created_at": "2024-04-30T06:25:03.401752",
  "system": false
}
```

Response headers

Content-Type: application/json

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