**Chatbot API**

**Endpoint List:**

**POST/chat/**

**Description:** sends a user massage to the chatbot, receives a response, and updates the chat history in database.

**HTTP Method:** POST

**URL:** <http://13.215.97.78:8000/chat/>

**AUTHENTICATION:** A token is required to access /chat endpoint. (Please refer to the sample request)

Changes:

1. Add authentication

**Request format for chat**

{

"userid": int,

"persona": "string",// defaults to "The Clinical Specialist"

"question": "string",

"fierceness": int

}

**Respond format for chat**

{

"userid": "int",

"answer": "string" // Chatbot's response

}

Changes:

1. Remove username from the request body
2. Add fierceness
3. Set “The Clinical Specialist” as the default value for persona
4. Convert “Answer” to “answer”

**Sample Request and Response**

**Request on Linux/MacOS (need to include the token for authentication)**

curl -X 'POST' \

'http://13.215.97.78:8000/chat/' \

-H 'Authorization: Bearer eyJhbGciOiLWhHp+5eC.Hdg2GMlMNH8qORCEtSIhjckM5ALf2K' \

-H 'Content-Type: application/json' \

-d '{

"userid": 3,

"question": "What should I do today?",

"fierceness": 0

}'

**Request on Windows**

curl -X POST "http://13.215.97.78:8000/chat/" ^

-H "Authorization: Bearer eyJhbGciOiLWhHp+5eC.Hdg2GMlMNH8qORCEtSIhjckM5ALf2K" ^

-H "Content-Type: application/json" ^

-d "{\"userid\": 3, \"question\": \"What should I do today?\", \"fierceness\": 0}"

**3. Response**

{"userid":3,"answer":"Take some time for self-care today. Engage in activities that bring you peace and joy, whether it's reading an uplifting book, taking a relaxing bath, practicing gentle yoga or meditation, or spending time outdoors in nature. Be kind and patient with yourself. If you need to rest, allow yourself that respite. Nourish your mind, body, and spirit with whatever feels most nurturing and replenishing for you in this moment."}

**Tables and Schema in Current Database**

**Table 1: uset\_list**  
**Schema:**

CREATE TABLE [dbo].[user\_list] (

[id] INT NOT NULL,

[username] VARCHAR (MAX) NOT NULL,

[password] VARCHAR (MAX) NOT NULL,

[name] VARCHAR (MAX) NULL,

[weight\_loss\_description] VARCHAR (MAX) NULL,

[num\_meals] INT NULL,

[num\_snacks] INT NULL,

[reduce\_portion\_size] VARCHAR (MAX) NULL,

[change\_food\_choice] VARCHAR (MAX) NULL,

[modified\_by] VARCHAR (MAX) NULL,

[created\_timestamp] DATETIME2 (7) NOT NULL,

[modified\_timestamp] DATETIME2 (7) NULL,

[first\_login\_timestamp] DATETIME2 (7) NULL,

[onboarding\_timestamp] DATETIME2 (7) NULL,

[login\_timestamp] DATETIME2 (7) NULL,

[current\_day\_number] INT NULL,

[current\_week\_number] INT NULL,

[bmi] FLOAT (53) NULL,

[tdee] FLOAT (53) NULL,

[weight] INT NULL,

[height] INT NULL,

[waist] INT NULL,

[daily\_activity\_level] VARCHAR (MAX) NULL,

[medical\_history] VARCHAR (MAX) NULL,

[personal\_values] VARCHAR (MAX) NULL,

[device\_uuid] VARCHAR (MAX) NULL,

CONSTRAINT [PK\_user\_list] PRIMARY KEY CLUSTERED ([id] ASC)

);

**Table 2: user\_demo**

**Schema:**

CREATE TABLE [dbo].[user\_demo] (

[id] INT NOT NULL,

[username] VARCHAR (MAX) NOT NULL,

[name] VARCHAR (MAX) NULL,

[age] INT NOT NULL,

[gender] VARCHAR (MAX) NOT NULL,

[phone\_number] INT NOT NULL,

[chat\_history] VARCHAR (MAX) NULL,

[last\_persona] VARCHAR (MAX) NULL,

CONSTRAINT [PK\_user\_demo] PRIMARY KEY CLUSTERED ([id] ASC),

CONSTRAINT [FK\_user\_demo\_user\_list] FOREIGN KEY ([id]) REFERENCES [dbo].[user\_list] ([id])

);

**Table 3: lab\_test\_result**  
**Schema:**

CREATE TABLE [dbo].[lab\_test\_result] (

[id] INT NOT NULL,

[username] VARCHAR (MAX) NOT NULL,

[lab\_id] INT NOT NULL,

[test\_item] VARCHAR (MAX) NOT NULL,

[test\_result] FLOAT (53) NOT NULL,

[test\_dt] DATETIME2 (7) NOT NULL,

CONSTRAINT [PK\_lab\_test\_result] PRIMARY KEY CLUSTERED ([lab\_id] ASC),

CONSTRAINT [FK\_lab\_test\_result\_user\_list] FOREIGN KEY ([id]) REFERENCES [dbo].[user\_list] ([id])

);

**Table 4: weekly\_reflection\_problems\_and\_goals**

**Schema:**

CREATE TABLE [dbo].[weekly\_reflection\_problems\_and\_goals] (

[user\_id] INT NULL,

[name] VARCHAR (MAX) NULL,

[date\_range] VARCHAR (MAX) NOT NULL,

[week\_number] INT NOT NULL,

[id] INT NOT NULL,

[weekly\_reflection\_id] INT NOT NULL,

[problem] VARCHAR (MAX) NOT NULL,

[goal] VARCHAR (MAX) NOT NULL,

[created\_timestamp] DATETIME2 (7) NOT NULL,

CONSTRAINT [PK\_weekly\_reflection\_problems\_and\_goals] PRIMARY KEY CLUSTERED ([id] ASC),

CONSTRAINT [FK\_weekly\_reflection\_problems\_and\_goals\_user\_list] FOREIGN KEY ([user\_id]) REFERENCES [dbo].[user\_list] ([id])

);

**Table 5: persona\_info**

**Schema**

CREATE TABLE [dbo].[persona\_info] (

[persona\_id] INT NOT NULL,

[persona] VARCHAR (MAX) NULL,

[user\_message] VARCHAR (MAX) NULL,

[ai\_message] VARCHAR (MAX) NULL,

PRIMARY KEY CLUSTERED ([persona\_id] ASC)

);

**Available personas**

The Clinical Specialist

The Fitness Drill Sergeant

The Holistic Healer

The Buddy Coach

The Tech-Driven Motivator