Grog-Bot: An Al ChatBot – Simple Project Overview

This chatbot project is a Streamlit app that lets users chat with an AI using Groq's language models. It responds live as you type and keeps track of your conversation history.

Main Features

- Made with Streamlit simple and interactive UI.
- Connects with Grog's Python SDK for AI chat.
- Shows streaming responses replies appear word by word, like real-time typing.
- Remembers chat history using session state.
- Sidebar lets users:
 - o Pick an Al model (like llama, mistral, gemma)
 - Change response style (temperature)
 - Clear chat history
- Secure API key setup using .streamlit/secrets.toml (not shared online).

Project Files Explained

- app.py → The main code file that runs the app.
- streamlit/secrets.toml → Stores your private API key safely.
- gitignore → Tells GitHub not to upload secrets or unnecessary files.
- requirements.txt → List of packages the app needs.

How the Code Works (In Simple Steps)

1. get_client()

- Gets the Grog API key from your secrets.
- If not found, shows an error.
- If found, creates a Grog client to connect with the Al.

2. stream_response()

- Sends your question to the AI.
- Gets back the answer bit by bit (streaming).
- Builds and shows the full response live as it comes in.

3. UI & Chat Logic

- The app shows a title and welcome message.
- On the left sidebar, users can:
 - Pick a model
 - Adjust how creative the answers are (temperature)
 - o Clear chat
- The chat system:
 - o Tracks messages: everything you and the bot say.
 - Displays chat in message bubbles (like WhatsApp).
 - o Uses a placeholder to show replies as they come in (live streaming).

How to Use & Deploy

Run Locally

- 1. Download (clone) the project.
- 2. Install everything:
- 3. pip install -r requirements.txt
- 4. Create a file named .streamlit/secrets.toml and add your API key:
- 5. GROQ API KEY = "your api key here"
- 6. Run the app:
- 7. streamlit run app.py

Deploy on Streamlit Cloud

- 1. Push the project code to GitHub (don't include the secrets file).
- 2. Go to Streamlit Cloud.
- 3. Create a new app using your GitHub repo.
- 4. In Secrets Manager, add:
- 5. GROQ_API_KEY = your_api_key_here
- 6. Deploy and share your chatbot!

UI Screenshots (Reference)

The following screenshots illustrate the chatbot interface and its functionality.

