

User accesses webpage



Display page title, header
(GPT-4 Chatbot UI loads)



Check if session state
has any saved chat history

Yes



No



Display previous
messages from
session state

Display empty chat
area (no history)



User enters prompt in chat input
(UI updates)



Append user message to the
session state list



Display user's message in
chat window (UI update)



Send request to OpenAI GPT-4
with user prompt + history



Stream assistant's response
(chunk by chunk from GPT)



Display assistant's message in
chat window (UI update)



Append assistant's response to
session state message



Provide multiple prompts or close
the webpage