## Product Requirements

- Product Requirements
  1. As a user, I want to ask the chatbot about products with details like category, color, or other attributes and receive a list of suggested products with prices and descriptions.
  2. As a user, I want to get product recommendations within the price range that I provide
- 3. As a user, I want to interact with the chatbot through a simple web interface.

- lectrinical Requirements

  1. Utilize the OpenAI API only for the Inference and embeddings.

  2. Implement search and suggest the best approach for this task.

  3. Use FastAPI to create API endpoints for the Ant functionality.

  4. Implement a React-based frontend using Next, is for the chat interface.

## Assumptions:



















Endpoints GET v1/products

GET v1/products/search/description GET v1/chat/message/categorize

POST v1/chat/message



Chat examples

ASSITANT: Hi, how can I help you? USER: I want to get a shower gel that has a color blue?

ASSISTANT: I found several shower gels, here are my recommendations product 1 product 2

USER: out of these, which ones are natural?

product 2

ASSITANT: Hi, how can I help you? USER: I want to get a shower gel that has a

ASSISTANT: I found several shower gels, here are my recommendations product 1 product 3

USER: out of these, which ones cost below ten dollars

ASSISTANT: product 3

Things needed for scaling the prototype





Requirements: 100 products 100 K daily users

500 k \* 200 = 150 \* 10

don't care about front-end

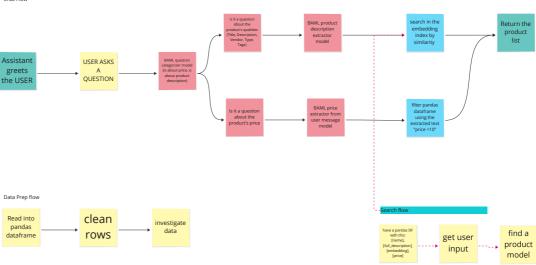
GPT4

confidentia jailbreaks

Users

pkce

Chat Flow





into a separate







create an embedding for

each via calling OpenAl API