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Project 2

1 Product Mission Statement

- -For chatbot users and developers
- -Who need an intelligent, customizable conversational AI solution
- -The ChatGPT 3.5 API-powered chatbot is a versatile artificial intelligence assistant
- -That provides appropriate responses and streamlines user interactions
- -Unlike rule-based chatbots or less advanced AI models
- -Our product offers more advanced natural language processing capabilities with easy integration for diverse applications

2 Product User Stories

- 1."As a student when studying at home, I want to ask questions about my coursework because I need immediate clarification on complex topics."
- 2. "As a housewife when cooking in kitchen, I would like to get in time constructions for dealing with raw meat because I need to finish a delicious and safe dish as soon as possible."
- 3."As a non-native English speaker, I can practice conversational English with the chatbot so that I improve my spoken English in local environment."

3 MVP

- 1. Basic Conversation Functionality: Implement a simple text-based interface for users to input messages and receive responses; integrate the ChatGPT 3.5 API to process user inputs and generate appropriate responses.
- 2. Single-turn Conversations: Focus on handling single-turn conversations initially, where each user input is treated independently.

4 Demo of chatbot

1. Finish the code of how to call API.

```
from openai import OpenAI
client = OpenAI()

messages = []

system_message = input("What type of chatbot you want me to be?")
messages.append({"role":"system","content":system_message})

print("Alright! I am ready to be your friendly chatbot" + "\n" + "You can now type your messages.")

message = input("")

message = input("")

message = input("role":"user","content": message})

response = client.chat.completions.create(model="gpt-3.5-turbo", messages=messages)

print(response.choices[0].message)
```

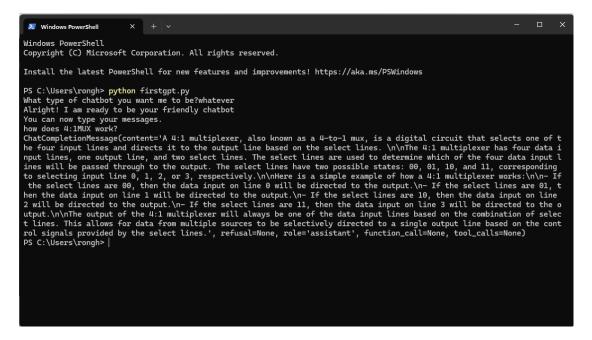
2. Open Command and enter, "python first.py".

```
Windows PowerShell X + V - - - X
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\rongh> python firstqpt.py
```

3. Ask questions about Digital Circuits.



The outcomes show the code uses ChatGPT successfully by calling its APIs.