

Project 58: History Quiz Generator

Description:

This project creates engaging multiple-choice history quizzes on any era, civilization, war, or event. Great for students, teachers, trivia fans, or just brushing up on your knowledge of the past.

history_quiz_generator.py

```
import openai
import os
import gradio as gr

# Load OpenAI API key from environment
openai.api_key = os.getenv("OPENAI_API_KEY")

# Function to generate history quiz questions
def generate_history_quiz(topic, difficulty):
    # Prompt to make a history teacher AI
    messages = [
        {
            "role": "system",
            "content": (
                f"You are a history quiz creator. Generate 3 multiple-choice q"
                f"at a {difficulty} level. Each question should have 4 options"
                "with a brief explanation at the end."
            )
        },
        {
            "role": "user",
            "content": "Please generate the quiz."
        }
    ]

    try:
        # Call OpenAI API for quiz generation
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo", # GPT-4 gives richer questions
```

```

        messages=messages
    )

    # Return quiz content
    return response["choices"][0]["message"]["content"].strip()

except Exception as e:
    return f"Error: {str(e)}"

# Gradio interface for quiz generation
iface = gr.Interface(
    fn=generate_history_quiz,
    inputs=[
        gr.Textbox(label="Enter History Topic (e.g. World War II, Ancient Egypt)",
        gr.Radio(["beginner", "intermediate", "advanced"], label="Select Difficulty",
    ],
    outputs="text",
    title="🏰 History Quiz Generator",
    description="Enter a history topic and get a multiple-choice quiz with answers",
)

# Launch the quiz generator
iface.launch()

```