

Assignment 1: create a webapp

Description

Create a webapp, but let an AI chatbot generate the code!

Ideation

The webapp is called “Movie Character Financial Advisor” and gives you personal financial advice based on your financial health and your chosen movie character.

Instructions

- Navigate to the GitHub repo
- Start GitHub Codespace (see README)
- Use any LLM / Chatbot you like
- Fill in the missing Python code in the root directory
- Get creative and don’t be limited by the existing code!

<https://github.com/MitchelNijdam-Rockstars/dnb-ai-hackathon>

Tips

- Is your chatbot writing faulty code?
 - Give it more context about the project
 - Give examples
 - Be more precise in your prompt
- Include context that the chatbot needs to generate the code you want
 - Existing code snippets
 - Which framework / language is used
- Errors in the code? Ask the chatbot what to do

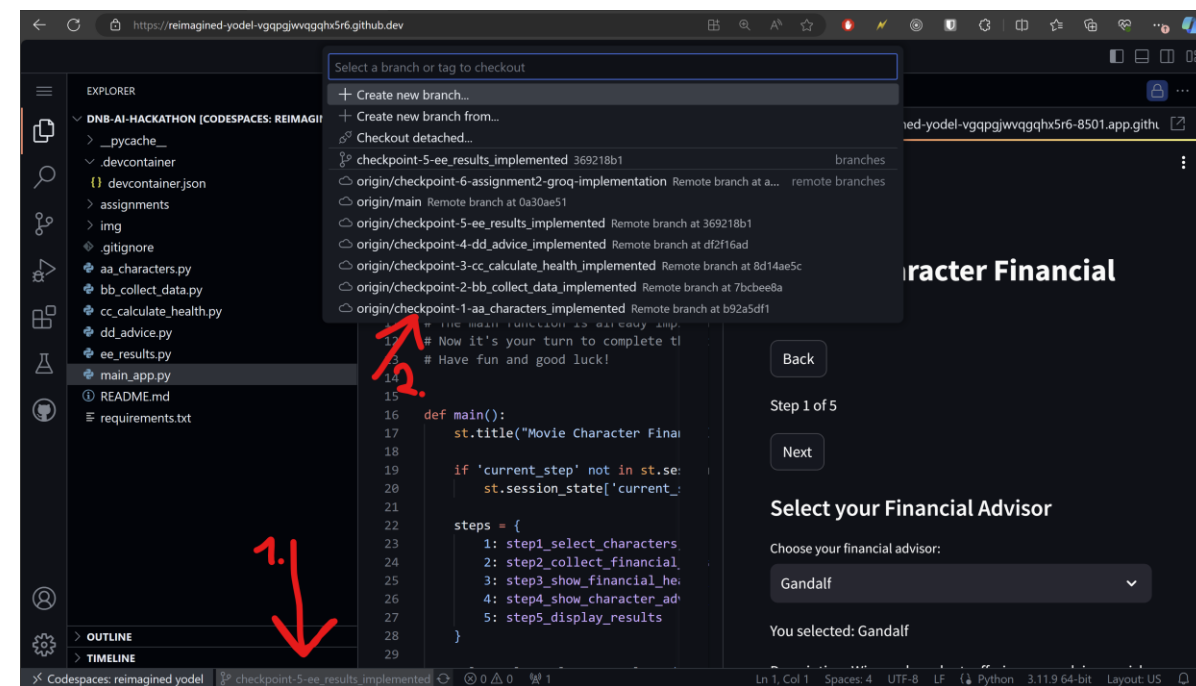
Sources

- [Streamlit reference](#)

Assignment 1: create a webapp

Are you stuck?

- For each step there is an example implementation on the “checkpoint branches”. Every checkpoint will contain examples of the previous checkpoints.
 - See screenshot
 - ⚠️ If you use **force checkout**, git discards your current progress and continues from the checkpoint ⚠️
- Ask for help from any of the organizers! They should be walking around 😊




Assignment 2: AI code analysis

Description

Analyze the quality of your code using the LLM from GroqCloud REST API.

Ideation

Send a system prompt + the source code of assignment 1 to the API from Groq. Display the results on screen 

Instructions

- Create an account in Groq Cloud
- Copy your own API key from the console & read the API documentation
- Use any language / script / tool you want (can be done with python & streamlit too)
- Continue in the GitHub Codespace where you left off with assignment 1
 - See folder **assignment_2** for bad code examples
- Send your prompt + source code to the Groq API
- Visualize the response
- Optimize the prompt to get the best results!

Tips

- Streamlit can read the files and send them to any API
- Not sure how to connect to the Groq API? Or how to get the files as text into the request? Ask your favorite AI chatbot for help

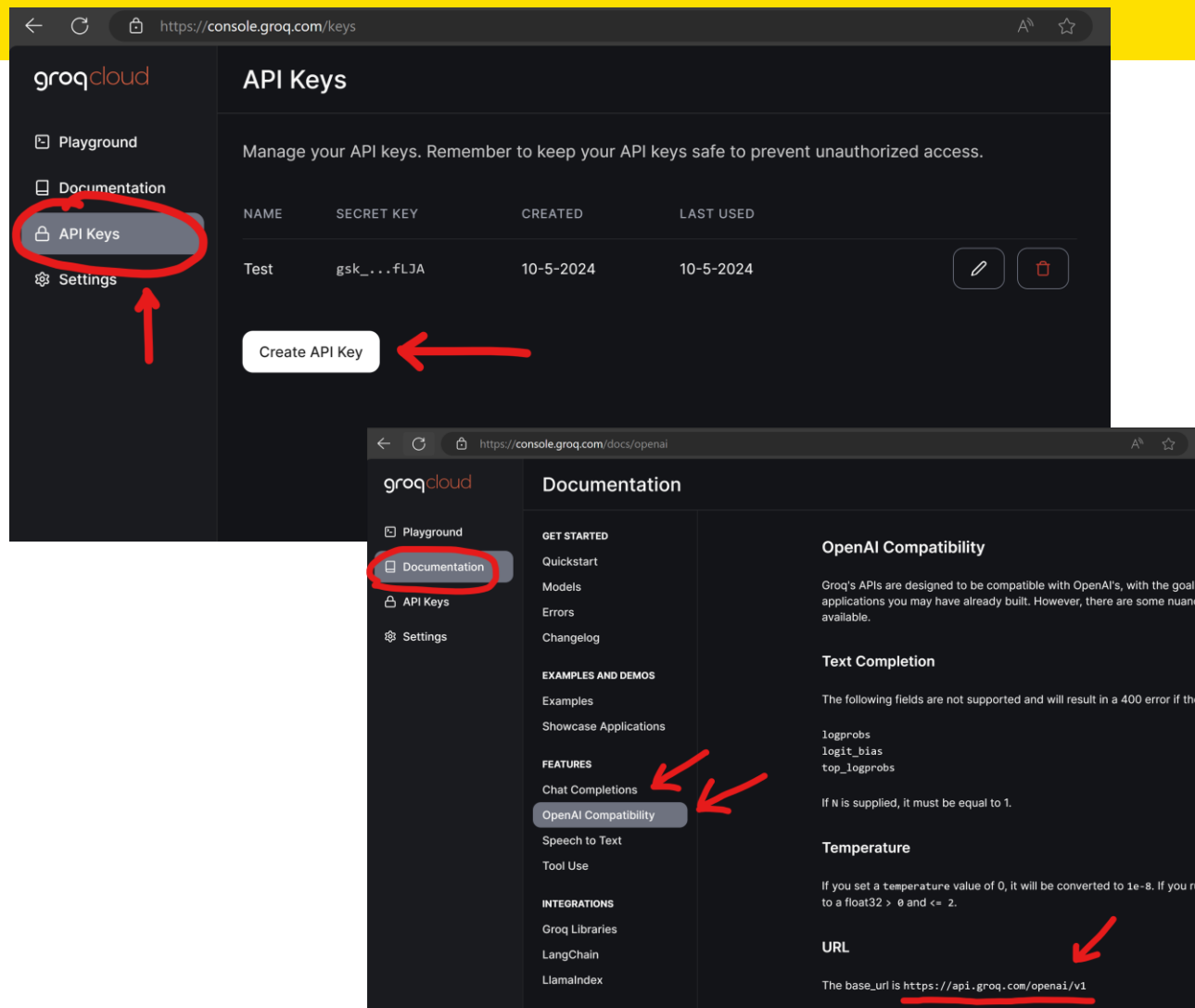
Sources

- [Streamlit reference](#)
- [Groq Cloud Console](#)

Assignment 2: AI code analysis

Groq API instructions

- Create an account in <https://console.groq.com>
- Get your own API key
- Read the documentation
 - Use the Chat Completions or OpenAI compatibility examples
- When using OpenAI compatibility, read the OpenAI documentation
 - <https://platform.openai.com/docs/api-reference/chat>
- Use the LLM model **llama3-70b-8192** for best performance



The image shows two screenshots of the Groq console and documentation pages. The top screenshot is the 'API Keys' page, and the bottom screenshot is the 'Documentation' page.

API Keys Page: The left sidebar shows 'API Keys' highlighted with a red circle and an arrow pointing to it. The main content area shows a table with one key named 'Test' and a 'Create API Key' button highlighted with a red arrow.

NAME	SECRET KEY	CREATED	LAST USED
Test	gsk_...fLJA	10-5-2024	10-5-2024

Documentation Page: The left sidebar shows 'Documentation' highlighted with a red circle. The main content area shows the 'OpenAI Compatibility' section, which is highlighted with a red circle. The 'URL' section at the bottom shows the base URL `https://api.groq.com/openai/v1` highlighted with a red circle and an arrow pointing to it.

Assignment 2: AI code analysis

Are you stuck?

- See the example implementation on the checkpoint branch
 - `checkpoint-6-assignment2_groq_implementation`
- Ask one of the organizers! They should be walking around 😊

