測試 Mistral API

這篇文章是快速測試 Mistral API 的。我使用 `mistral-small-2501` 模型進行這次測試。下面的程式碼顯示如何呼叫 API 並獲取回應。

```python
import os
import requests
from dotenv import load_dotenv
import argparse

load_dotenv()

def call_mistral_api(prompt, model="mistral-small-2501"):
    api_key = os.environ.get("MISTRAL_API_KEY")
    if not api_key:
        print(" 錯誤：MISTRAL_API_KEY 環境變數未設定。")
        return None

    url = "https://api.mistral.ai/v1/chat/completions"
    headers = {
        "Content-Type": "application/json",
        "Accept": "application/json",
        "Authorization": f"Bearer {api_key}"
    }
    data = {
        "model": model,
        "messages": [
            {
                "role": "user",
                "content": prompt
            }
        ]
    }
    try:
        response = requests.post(url, headers=headers, json=data)
        response.raise_for_status()
        response_json = response.json()
        print(response_json)
        if response_json and response_json['choices']:
            content = response_json['choices'][0]['message']['content']
```

```python
            return content
        else:
            print(f"Mistral API 錯誤：無效的回應格式：{response_json}")
            return None
    except requests.exceptions.RequestException as e:
        print(f"Mistral API 錯誤：{e}")
        if e.response:
            print(f" 回應狀態碼：{e.response.status_code}")
            print(f" 回應內容：{e.response.text}")
        return None


def call_codestral_api(prompt, model="codestral-latest"):
    api_key = os.environ.get("MISTRAL_API_KEY")
    if not api_key:
        print(" 錯誤：MISTRAL_API_KEY 環境變數未設定。")
        return None

    url = "https://api.mistral.ai/v1/fim/completions"
    headers = {
        "Content-Type": "application/json",
        "Accept": "application/json",
        "Authorization": f"Bearer {api_key}"
    }
    data = {
        "model": model,
        "prompt": prompt,
        "suffix": "return a + b",
        "max_tokens": 64,
        "temperature": 0
    }
    try:
        response = requests.post(url, headers=headers, json=data)
        response.raise_for_status()
        response_json = response.json()
        print(response_json)
        if response_json and response_json['choices']:
            content = response_json['choices'][0]['message']['content']
            return content
        else:
            print(f"Codestral API 錯誤：無效的回應格式：{response_json}")
```

```python
            return None
        except requests.exceptions.RequestException as e:
            print(f"Codestral API 錯誤：{e}")
            if e.response:
                print(f" 回應狀態碼：{e.response.status_code}")
                print(f" 回應內容：{e.response.text}")
            return None


if __name__ == "__main__":
    parser = argparse.ArgumentParser(description=" 測試 Mistral 和 Codestral API。")
    parser.add_argument("--type", type=str, default="mistral", choices=["mistral", "codestral"], help=" 呼叫的
    args = parser.parse_args()

    if args.type == "mistral":
        prompt = "what's your cutting point of knowledge"
        response = call_mistral_api(prompt)
        if response:
            print(f" 回應：{response}")
    elif args.type == "codestral":
        prompt = "def f("
        response = call_codestral_api(prompt, model="codestral-latest")
        if response:
            print(f" 回應：{response}")
```