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# Fastapi串接前端



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#fastapi # react

先在後端資料夾的main.py設置路由(這裡後端用內插法示範)

前端會傳送2張照片(一張舊照片、一張新照片)到後端，後端處理完後會傳送一張內插過程圖到前端

main.py的路由(這裡只有路由的設定)

```
from interpolated import getImgInterpolated

@app.post("/interpolated/")
async def interpolated(image1: UploadFile = File(...), image2: UploadFile = File(...)):
    try:
        image_data1 = await image1.read()
        image_data2 = await image2.read()
        oldImage = Image.open(io.BytesIO(image_data1)).convert("RGB")
        newImage = Image.open(io.BytesIO(image_data2)).convert("RGB")
        response = getImgInterpolated(oldImage, newImage)
        return StreamingResponse(response, media_type="image/jpeg") # 直接回傳圖
    except Exception as e:
        return JSONResponse(content={"error": str(e)}, status_code=400)
```

interpolated.py

```
from PIL import Image, ImageOps
import torch
import cv2
import numpy as np
from diffusers import StableDiffusionPipeline
from io import BytesIO

def getImgInterpolated(oldImage, newImage):
    # 內插法過程

    # 轉換資料再return
    img_bytes = BytesIO() # 建立一個 BytesIO 物件
    merged_image.save(img_bytes, format="JPEG") # 把圖片存進 BytesIO
    img_bytes.seek(0) # 將指標移到開頭
    return img_bytes # 回傳 BytesIO 物件
    # 顯示合併後的圖片
    # merged_image.show()
```

## 前端發送請求

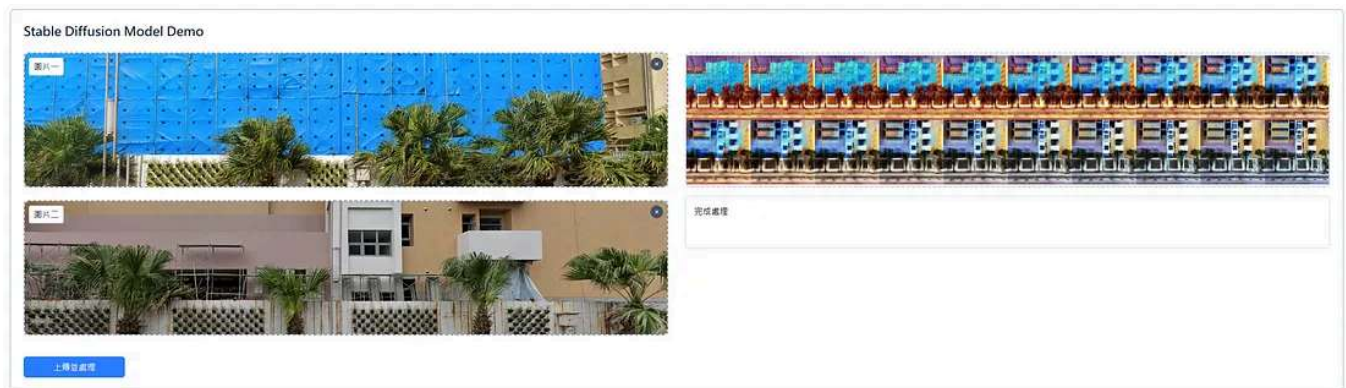
```
try {
    const response = await fetch("http://localhost:8000/interpolated/", {
        method: "POST",
        body: formData,
    });

    if (!response.ok) {
        throw new Error("圖片處理失敗");
    }

    const blob = await response.blob(); // 解析後端返回的 JSON 數據
    const imageUrl = URL.createObjectURL(blob); // 創建圖片 URL
    setResult({
        image: imageUrl, // 使用後端返回的圖片 URL
        text: "完成處理", // 使用後端返回的文字
    });
} catch (error) {
    console.error("上傳錯誤", error);
    setError("圖片處理失敗，請重試"); // 設置錯誤訊息
} finally {
    setUploading([false, false]); // 重置上傳狀態
}
};
```

要注意資料型態的傳送否則很容易出問題，也可以先透過fastapi的docs檢查自己的後端路由

## 結果

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## Written by Rich

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