

本项目基于python3.10的环境下 (不会下的可以求助舍友)

使用vscode (蓝色的)

使用之前需安装以下插件

The screenshot shows the Visual Studio Code interface with two windows side-by-side. Both windows display the same code editor with Python code for a Flask application. The sidebar on the left lists various extensions, many of which are highlighted with yellow arrows and labeled with red text: '必须的插件' (Must-have plugins) and '其余随意' (Others optional). The extensions include GitHub Copilot, Python, Python Debugger, Python Environments, and others. The status bar at the bottom of each window shows the command line and current file path.

```
questions.json generate_questions.py exam.html index.html style.css settings.json app.py endless.html
```

```
def load_questions():
    path = os.path.join(os.path.dirname(__file__), 'questions.json')
    if not os.path.exists(path): return {"choice": [], "fill_in": [], "true_false": []}
    with open(path, 'r', encoding='utf-8') as f:
        return json.load(f)

@app.route('/')
def index():
    return render_template('index.html')

@app.route('/exam/')
def exam(paper_id):
    data = load_questions()
    # 随机试题生成随机题目
    exam_data = [
        "choice": [q for q in data['choice'] if q['paper_id'] == paper_id],
        "true_false": [q for q in data['true_false'] if q['paper_id'] == paper_id],
        "fill_in": [q for q in data['fill_in'] if q['paper_id'] == paper_id]
    ]
    return render_template('exam.html', paper_id=paper_id, paper_exam_data=exam_data)

@app.route('/endless')
def endless():
    return render_template('endless.html')

def get_all_questions():
    # 回答有题目用无尽模式
    data = load_questions()
    all_q = []
    for q in data['choice']:
        all_q.append({'*': q, 'category': '单选题'})
    for q in data['true_false']:
        all_q.append({'*': q, 'category': '判断题'})
    for q in data['fill_in']:
        all_q.append({'*': q, 'category': '填空题'})
    # 随机乱序
    random.shuffle(all_q)
    return jsonify(all_q)

if __name__ == '__main__':
    app.run(debug=True, port=5000)
```

点终端输入pip install Flask

使用智能体构建

AI 需要可能不准确。  
生成智能体指令以将 AI 载入代码库。

```

19 def exam(paper_id):
20     ...
21     return render_template('exam.html', paper_id=paper_id, paper=exam_data)
22
23 @app.route('/endless')
24 def endless_mode():
25     return render_template('endless.html')
26
27 @app.route('/api/all_questions')
28 def get_all_questions():
29     """返回所有题目用字典格式"""
30     data = load_questions()
31     all_q = []
32     # 统计题数
33     for q in data['choices']:
34         all_q.append({'q": "category": "单选题"})
35         for q in data["true_false"]:
36             all_q.append({'q": "category": "判断题"})
37         for q in data["fill_in"]:
38             all_q.append({'q": "category": "填空题"})
39
40     # 随机打乱
41     random.shuffle(all_q)
42     return jsonify(all_q)
43
44 if __name__ == '__main__':
45     app.run(debug=True, port=5000)

```

问题 插件 测试控制台 窗口

\* Debug mode: on  
\* Running on http://127.0.0.1:5000  
\* Press Ctrl+C to quit.

File C:\Users\Administrator\Desktop\code\pythonExam> pip install flask

使用智能体构建

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1点这里运行

这个主函数

```

1 from flask import Flask, render_template, jsonify
2 import os
3 import json
4 import random
5
6 app = Flask(__name__)
7
8 def load_questions():
9     path = os.path.join(os.path.dirname(__file__), 'questions.json')
10    if not os.path.exists(path): return {"choice": [], "fill_in": [], "true_false": []}
11    with open(path, 'r', encoding='utf-8') as f:
12        return json.load(f)
13
14 @app.route('/')
15 def index():
16     return render_template('index.html')
17
18 @app.route('/exam/')
19 def exam(paper_id):
20     data = load_questions()
21     # 读取试卷的所有题目
22     exam_data = {
23         "choice": [q for q in data['choice'] if q['paper_id'] == paper_id],
24         "true_false": [q for q in data['true_false'] if q['paper_id'] == paper_id],
25         "fill_in": [q for q in data['fill_in'] if q['paper_id'] == paper_id]
26     }
27     return render_template('exam.html', paper_id=paper_id, paper=exam_data)
28
29 @app.route('/endless')
30 def endless_mode():
31     return render_template('endless.html')
32
33 @app.route('/api/all_questions')
34 def get_all_questions():
35     ...
36     Debugger is active!
37     Debugger ID: 442-646-916

```

退出时按CTRL+c

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