Flask框架实现文件服务器 (支持上传和下载)



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最近测试的时候需要模拟一个文件服务器,支持文件的上传和下载功能。百度了一下各位大神的博客,结合公司的实际情况,写了一个文件服务器。

环境信息: python3.7.4 + Flask (1.1.1)

测试工具: requests(2.22.0)

目录结构:

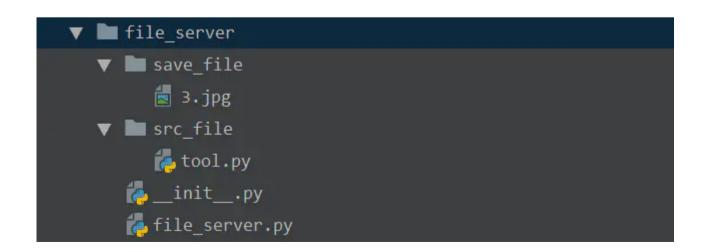


image.png

代码如下:

```
import os
from string import Template
from flask import Flask, request, send file
from werkzeug.utils import secure filename
app = Flask( name )
pwd = os.path.dirname( file )
#定义文件的保存路径和文件名尾缀
UPLOAD FOLDER = os.path.join(pwd,'save file')
ALLOWED_EXTENSIONS = {'txt', 'pdf', 'png', 'jpg', 'jpeg', 'gif'}
app.config['UPLOAD FOLDER'] = UPLOAD FOLDER
HOST = "192.168.52.235"
PORT = 5000
@app.route('/index')
def index():
    返回一个网页端提交的页面
    :return:
    0.00
    html = Template("""
    <!DOCTYPE html>
    <html>
       <body>
         <form action = "http://$HOST:$PORT/upload" method = "POST"</pre>
            enctype = "multipart/form-data">
             <input type = "file" name = "file" />
```

```
<input type = "submit"/>
          </form>
      </body>
   </html>
   """)
   html = html.substitute({"HOST": HOST, "PORT": PORT})
   return html
def allowed file(filename):
   检验文件名尾缀是否满足格式要求
   :param filename:
   :return:
   return '.' in filename and \
          filename.rsplit('.', 1)[1].lower() in ALLOWED EXTENSIONS
@app.route('/upload', methods=['GET', 'POST'])
def upload file():
   上传文件到save file文件夹
   以requests上传举例
   wiht open('路径','rb') as file_obj:
       rsp = requests.post('http://localhost:5000/upload,files={'file':file obj})
       print(rsp.text) --> file uploaded successfully
    0.00
   if 'file' not in request.files:
       return "No file part"
   file = request.files['file']
   if file.filename == '':
       return 'No selected file'
   if file and allowed file(file.filename):
       filename = secure_filename(file.filename)
       file.save(os.path.join(app.config['UPLOAD FOLDER'], filename))
       return 'file uploaded successfully'
   return "file uploaded Fail"
```

```
@app.route("/download")
76
    def download_file():
77
78
        下载src file目录下面的文件
79
        eg:下载当前目录下面的123.tar 文件, eg:http://localhost:5000/download?fileId=123.tar
80
        :return:
81
        0.00
82
        file name = request.args.get('fileId')
83
        file path = os.path.join(pwd,'src file',file name)
84
        if os.path.isfile(file_path):
85
            return send file(file path,as attachment=True)
86
        else:
87
            return "The downloaded file does not exist"
    if __name__ == '__main__':
        app.run(host=HOST, port=PORT)
```

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1.打开web上传页



image.png

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2.选择上传文件

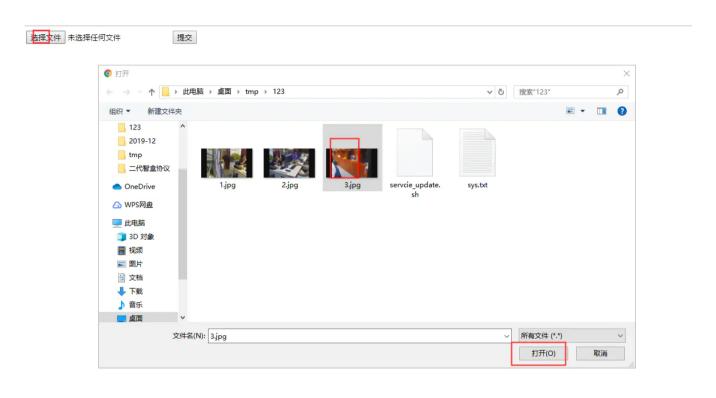
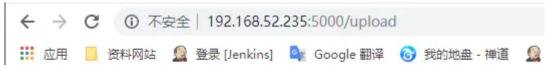


image.png

3.点击提交, 查看结果:



ps:如果save_file有同名的文件会直接覆盖,如果需做备份和报错处理,可自行研究(常用的文件操作)

通过requests上传,代码如下:

```
1 #文件服务器的测试脚本
2 import requests
3 
4 URL="http://192.168.52.235:5000/upload"
5 
6 f = open(r'D:\work\tools\file_server\templates\upload.html','rb')
7 
8 rsp = requests.get(URL,files={'file':f})
9 print(rsp.text)
```

下载src_file下面的文件的url, get或者post都支持,浏览器直接打开,或者接口调用工具打开; url:http://localhost:5000/download?fileId=tool.py



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