周瑞发的网站

欢迎访问

4 min. read

Python程序设计作业#7

2021-07-16 | 2020-12-08 | 2 | 0

Python程序设计#7作业

截止时间：2020年12月7日23:59:59

作业题目

实现remoteProxy的用户数据库的REST管理接口

基于Sanic实现对user.db数据库（SQLite）的管理接口

支持对user用户的增、删、改、查操作。

初步掌握Sanic的使用方法。

remoteRest代码

remoteRest代码嵌入下方的code block中。

```
from sanic import Sanic
from sanic import response
from sanic import exceptions
from sanic.response import json
import aiosqlite
import logging
import signal
import json

```

```
app = Sanic("RemoteProxyAdmin")
app.config.DB_NAME = 'user.db'
@app.exception(exceptions.NotFound)
async def ignore_404(req, exc):
    return response.text('errUrl', status=404)

@app.get('/user')
async def userList(req):
    userList = list()
    async with aiosqlite.connect(app.config.DB_NAME) as db:
        async with db.execute("SELECT name, password, dataRate FROM user;") as cu
            async for row in cursor:
                user = {'name' : row[0], 'password' : row[1], 'dataRate:' : row[2
                logging.debug(f'{user}')
                userList.append(user)
    return response.json(userList)

@app.put('/user')
async def updateUserInfo(req):#每次只能更新一条用户的数据
    update_user_info = req.json
    name = ''
    password = ''
    dataRate = ''
    for k,v in update_user_info.items():
        if(k == 'name'):
            name = v
        elif(k == 'password'):
            password = v
        elif(k == 'dataRate'):
            dataRate = v
    db = await aiosqlite.connect(app.config.DB_NAME)
    sql = 'select * from user where name = \'' + name + '\';'
    cursor = await db.execute(sql)
    row = await cursor.fetchall()
    if(len(row) == 0):
        await cursor.close()
        return response.json({"msg":"user not exist"})
    sql = 'update user set password = \'' + password + '\', dataRate = ' + str(da
    await db.execute(sql)
    await db.commit()
    await db.close()
    return response.json({"msg":"update successful"})

@app.post('/user')
async def insertUserInfo(req):
    insert_user_info = req.json
    name = ''
    password = ''
    dataRate = ''
    for k,v in insert_user_info.items():
        if(k == 'name'):
            name = v
        elif(k == 'password'):
            password = v
        elif(k == 'dataRate'):
            dataRate = v
    sql = 'select * from user where name = \'' + name + '\';'
    db = await aiosqlite.connect(app.config.DB_NAME)
    cursor = await db.execute(sql)
    row = await cursor.fetchall()
    if(len(row) != 0):
        await cursor.close()
        return response.json({"msg":"user already exist"})
    sql = 'insert into user values(\'' + name + '\',\'' + password + '\',' + str(
    await db.execute(sql)
    await db.commit()
    await db.close()
    return response.json({"msg":"insert successful"})

@app.delete('/user')
async def deleteUserInfo(req):
    delete_user_info = req.json
    name = ''
    for v in delete_user_info.values():
        name = v
        break
    sql = 'select * from user where name = \'' + name + '\';'
    db = await aiosqlite.connect(app.config.DB_NAME)
    cursor = await db.execute(sql)
    row = await cursor.fetchall()
    if(len(row) == 0):
        await cursor.close()
        return response.json({"msg":"user not exist"})
    sql = 'delete from user where name = \'' + name + '\';'
    await db.execute(sql)
    await db.commit()
    await db.close()
    return response.json({"msg":"delete successful"})

@app.route("/zrf")
async def test(request):
    return response.json({"hello": "world"})

if __name__ == "__main__":
    app.run(host="0.0.0.0", port=8000)

```

↑

代码说明

源代码中不要出现大段的说明注释，所有文字描述在本节中以行号引用说明。

‹ Python程序设计课程大作业 Python程序设计作业#4 ›

昵称 邮箱 网址(http://)

Just go go

提交

来发评论吧~

Powered By Valine
v1.4.14