

必修二15、信息系统项目举例--实现无线开...

1、数据库设计：

```
import sqlite3
db=sqlite3.connect("d.db")
cur=db.cursor()
cur.execute("create table control(light TEXT,status INTEGER)")
```

2、服务器端代码编写：

```
from flask import Flask,render_template,request,redirect
import sqlite3
import datetime
import json
app=Flask(__name__)
@app.route("/turn",methods=['GET'])
def turn():
    v=request.values.get("v")
    db=sqlite3.connect("d.db")
    cur=db.cursor()
    cur.execute("update control set status=%s where light='客厅'"%(v))
    db.commit()
    db.close()
    return redirect("/")
@app.route("/getstatus",methods=['GET'])
def getstatus():
    db=sqlite3.connect("wd.db")
    cur=db.cursor()
    cur.execute("select status from control where light='客厅'")
    status=cur.fetchone()[0]
    return str(status)
@app.route("/",methods=['GET'])
def showdata():
    db=sqlite3.connect("d.db")
    cur=db.cursor()
    cur.execute("select * from tp")
    res=[['temp','time']] + cur.fetchall()
    db.close()
    return render_template('showdata.html',head='开关控制',
                           submit=[{'url':'turn','btext':'执行','context':['v']}])
app.run("0.0.0.0",port=8080)
```

showdata.html 更新：

链接: <https://pan.baidu.com/s/1BdLYhrkPrQY4NEsL3uETEg> 提取码: ejdw

3、智能终端代码编写：

```

4 from mpython import *
5 import Obloq
6 IP='192.168.0.101'
7 PORT="8080"
8 SSID="jf"
9 PASSWORD="pkq88888"
10
11 #uart.init(baudrate=9600,bits=8,parity=None,stop=1,tx=pin2,rx=pin1)
12 while Obloq.connectWifi(SSID,PASSWORD,10000)!=True:
13     display.show(".")
14
15 #display.scroll(Obloq.ifconfig())
16 Obloq.httpSet(IP,PORT)
17
18 while True:
19     errno,resp=Obloq.get("getstatus",10000)
20     print(resp)
21     if resp==0:
22         rgb.fill((255,255,255))
23     else:
24         rgb.fill((0,0,0))
25     rgb.write()
26     sleep(1)

```

4、应用

调用请求: <http://192.168.0.101:8080/turn?v=0> 关灯

调用请求: <http://192.168.0.101:8080/turn?v=1> 开灯