

# 18小组工程说明文件

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## 开发语言说明

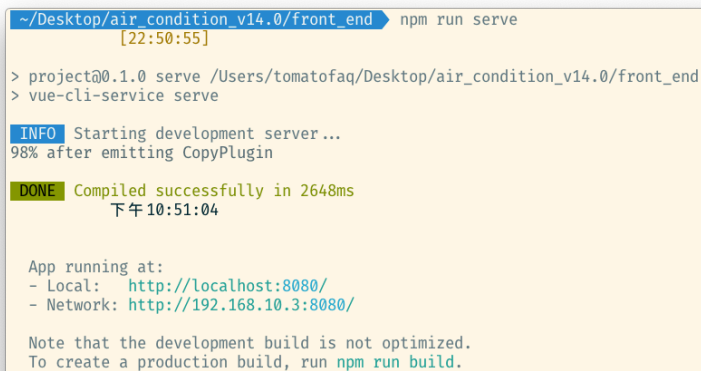
---

基于 `Python3.8` 进行开发。

## 运行方式

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安装完依赖后，运行工程文件夹下的 `run.sh` 即可运行。



```
~/Desktop/air_condition_v14.0/front_end npm run serve
[22:50:55]
> project@0.1.0 serve /Users/tomatofaq/Desktop/air_condition_v14.0/front_end
> vue-cli-service serve

INFO Starting development server...
98% after emitting CopyPlugin

DONE Compiled successfully in 2648ms
  下午10:51:04

App running at:
- Local:   http://localhost:8080/
- Network: http://192.168.10.3:8080/

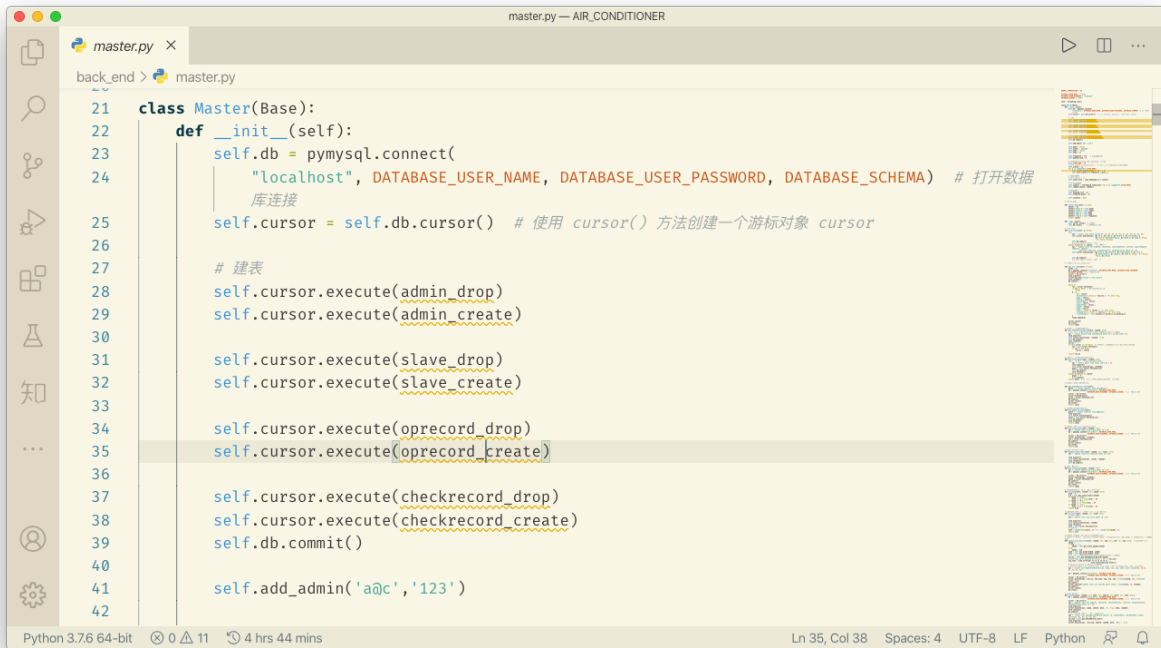
Note that the development build is not optimized.
To create a production build, run npm run build.
```

随后点击其中一个URL即可访问本分布式空调管理系统的界面

## 数据库

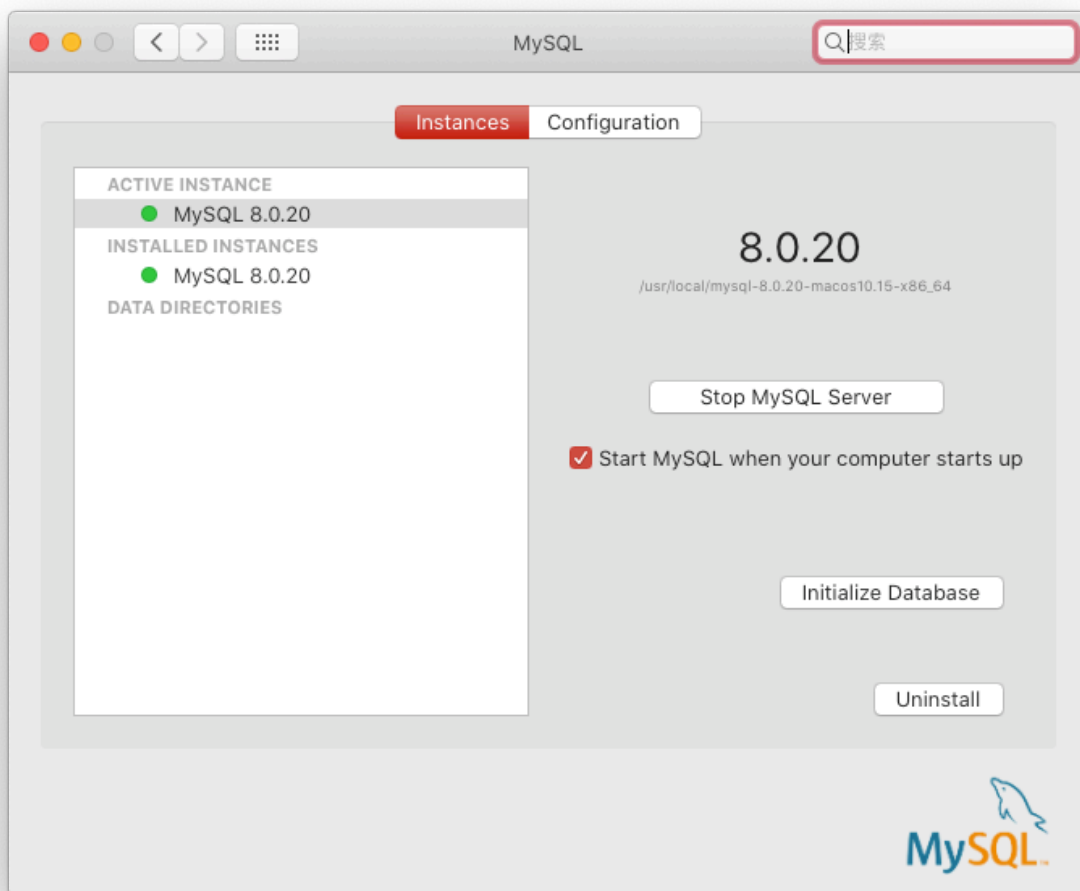
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数据库建库脚本文件 `mysqlTable.py` 已集成到代码中，无需再手动运行。



```
21 class Master(Base):
22     def __init__(self):
23         self.db = pymysql.connect(
24             "localhost", DATABASE_USER_NAME, DATABASE_USER_PASSWORD, DATABASE_SCHEMA) # 打开数据
25         # 库连接
26         self.cursor = self.db.cursor() # 使用 cursor() 方法创建一个游标对象 cursor
27
28         # 建表
29         self.cursor.execute(admin_drop)
30         self.cursor.execute(admin_create)
31
32         self.cursor.execute(slave_drop)
33         self.cursor.execute(slave_create)
34
35         self.cursor.execute(oprecord_drop)
36         self.cursor.execute(oprecord_create)
37
38         self.cursor.execute(checkrecord_drop)
39         self.cursor.execute(checkrecord_create)
40         self.db.commit()
41
42         self.add_admin('a@c', '123')
```

数据库服务器版本为 **MySQL 8.0.20** .



# 环境说明软件安装部署

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## 后端依赖

需要使用 `pip3` 安装以下包。

```
1 PyMySQL==0.9.3
2 Flask_Cors==3.0.8
3 Flask==1.1.2
4 Flask_SocketIO==4.3.0
```

## 前端依赖

在 `front_end` 目录下运行命令 `npm install` 即可完成环境配置。

```
1  {
2    "name": "project",
3    "version": "0.1.0",
4    "private": true,
5    "scripts": {
6      "serve": "vue-cli-service serve",
7      "build": "vue-cli-service build",
8      "lint": "vue-cli-service lint"
9    },
10   "dependencies": {
11     "axios": "^0.19.2",
12     "bootstrap": "^4.5.0",
13     "bootstrap-vue": "^2.14.0",
14     "core-js": "^3.6.4",
15     "json2csv": "^5.0.1",
16     "popper.js": "^1.16.1",
17     "socket.io": "^2.3.0",
18     "socket.io-client": "^2.3.0",
19     "vue": "^2.6.11",
20     "vue-router": "^3.1.6",
21     "vue-socket.io": "^3.0.9",
22     "vue-socket.io-extended": "^4.0.3",
23     "vuex": "^3.4.0",
24     "vuex-persist": "^2.2.0"
25   },
26   "devDependencies": {
27     "@vue/cli-plugin-babel": "~4.3.0",
28     "@vue/cli-plugin-eslint": "~4.3.0",
29     "@vue/cli-service": "~4.3.0",
30     "babel-eslint": "^10.1.0",
31     "eslint": "^6.7.2",
32     "eslint-plugin-vue": "^6.2.2",
33     "vue-template-compiler": "^2.6.11"
34   },
35   "eslintConfig": {
```

```
36     "root": true,
37     "env": {
38       "node": true
39     },
40     "extends": [
41       "plugin:vue/essential",
42       "eslint:recommended"
43     ],
44     "parserOptions": {
45       "parser": "babel-eslint"
46     },
47     "rules": {}
48   },
49   "browserslist": [
50     "> 1%",
51     "last 2 versions",
52     "not dead"
53   ]
54 }
55
```