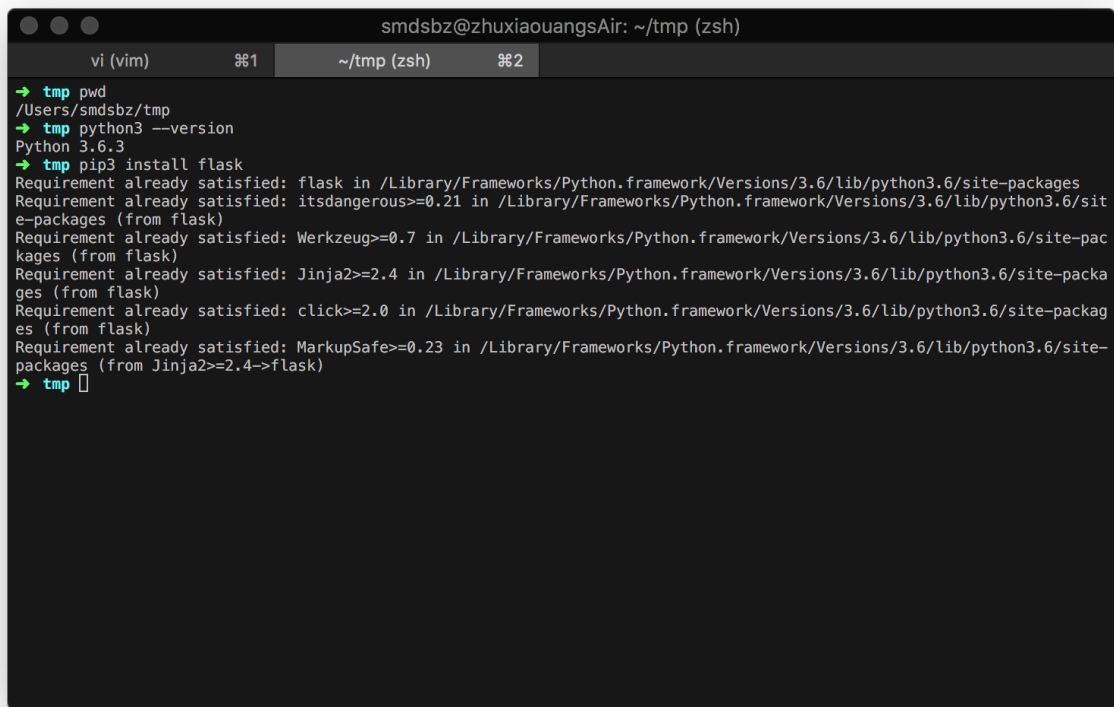


LAB03

综合开发场景模拟

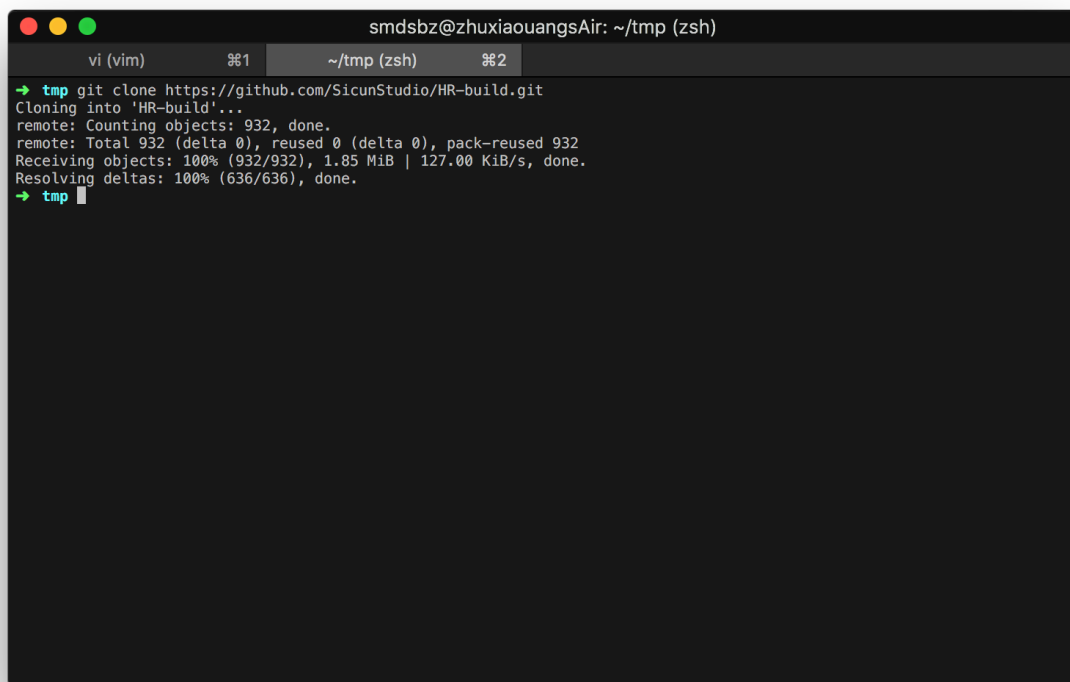
环境建立



```
smdsbz@zhuxiaouangsAir: ~/tmp (zsh)
vi (vim)  %1      ~/tmp (zsh)  %2
→ tmp pwd
/Users/smdsbz/tmp
→ tmp python3 --version
Python 3.6.3
→ tmp pip3 install flask
Requirement already satisfied: flask in /Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages
Requirement already satisfied: itsdangerous>=0.21 in /Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages (from flask)
Requirement already satisfied: Werkzeug>=0.7 in /Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages (from flask)
Requirement already satisfied: Jinja2>=2.4 in /Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages (from flask)
Requirement already satisfied: click>=2.0 in /Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages (from flask)
Requirement already satisfied: MarkupSafe>=0.23 in /Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages (from Jinja2>=2.4->flask)
→ tmp
```

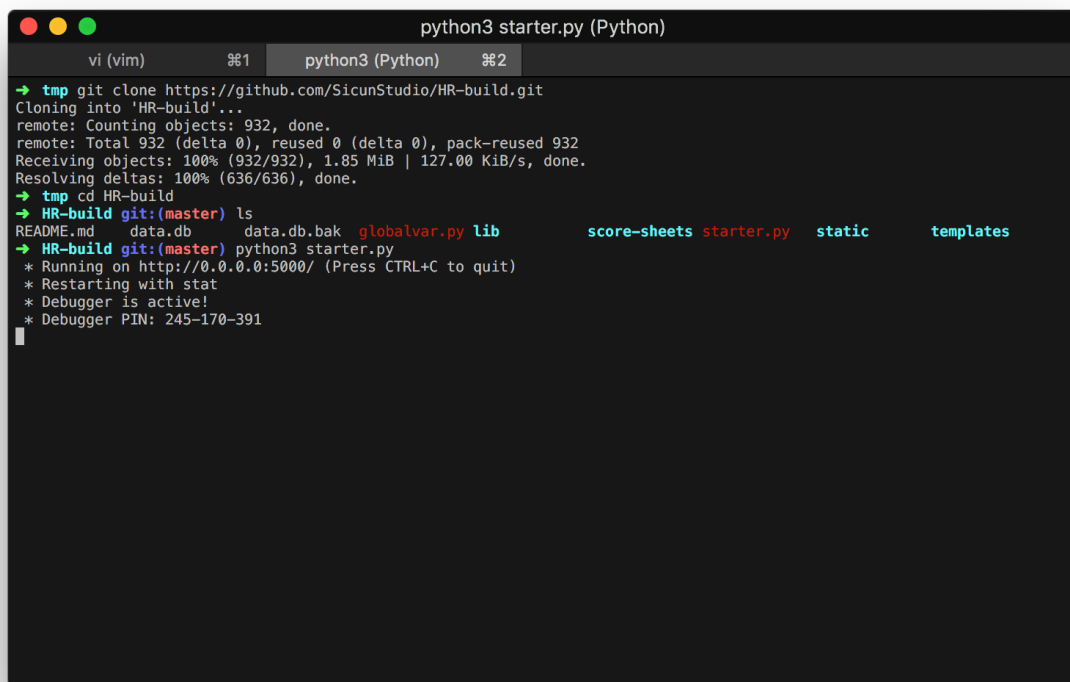
1. 安装 Python3.6
2. 通过内建 pip 安装 flask 包

GitHub 仓库同步至本地

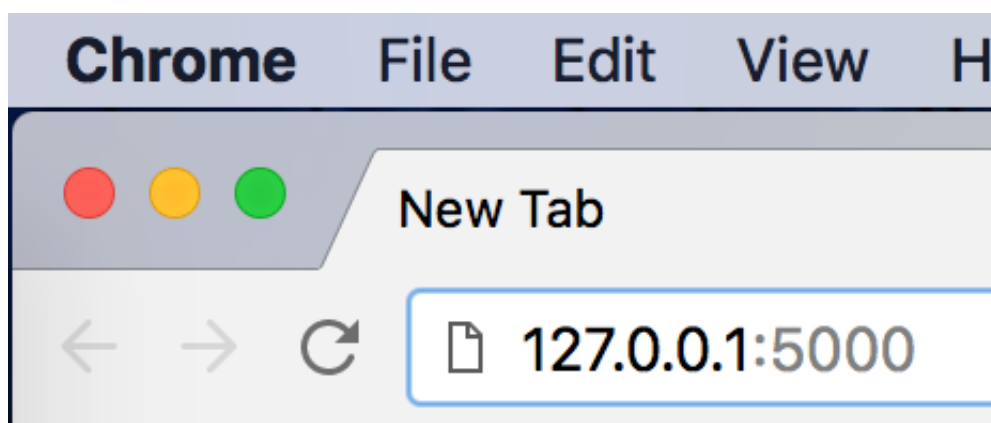


```
smdsbz@zhuxiaouangsAir: ~/tmp (zsh)
vi (vim) %1 ~/tmp (zsh) %2
→ tmp git clone https://github.com/SicunStudio/HR-build.git
Cloning into 'HR-build'...
remote: Counting objects: 932, done.
remote: Total 932 (delta 0), reused 0 (delta 0), pack-reused 932
Receiving objects: 100% (932/932), 1.85 MiB | 127.00 KiB/s, done.
Resolving deltas: 100% (636/636), done.
→ tmp
```

试运行



```
python3 starter.py (Python)
vi (vim)  %1  python3 (Python)  %2
→ tmp git clone https://github.com/SicunStudio/HR-build.git
Cloning into 'HR-build'...
remote: Counting objects: 932, done.
remote: Total 932 (delta 0), reused 0 (delta 0), pack-reused 932
Receiving objects: 100% (932/932), 1.85 MiB | 127.00 KiB/s, done.
Resolving deltas: 100% (636/636), done.
→ tmp cd HR-build
→ HR-build git:(master) ls
README.md  data.db  data.db.bak  globalvar.py  lib  score-sheets  starter.py  static  templates
→ HR-build git:(master) python3 starter.py
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 245-170-391
```



注意：

- 使用 `python3 <main.py>` 运行程序，不要使用官网展示的通过 Flask script 运行的方式。
- 可以看到服务虽然挂载在 `0.0.0.0:5000` 上，即广播地址上运行，但是请在浏览器地址栏中显式指明访问 `127.0.0.1:5000`，即本地回环地址。开发过程中，除非测试需要，推荐使用本地回环地址。

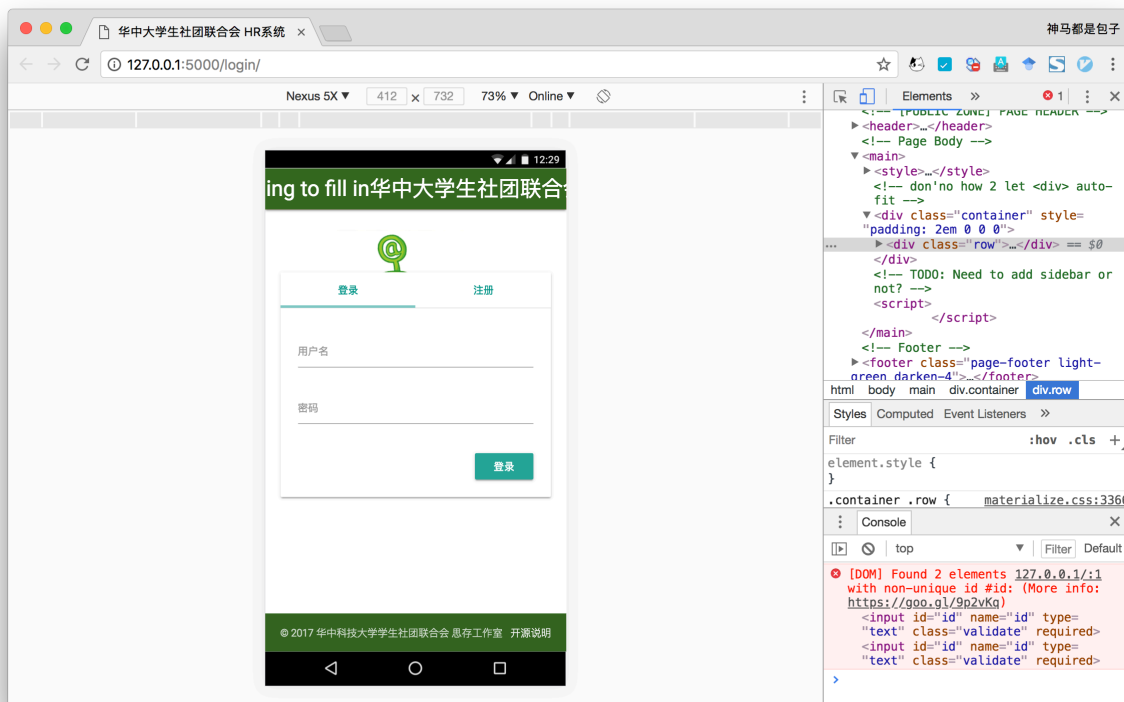
作出修改

将端口地址改回本地。

```
vi starter.py (vim)
vi (vim)  %1 vi (vim)  %2 python3 (Python)  %3
432 # print(depart)
433 return jsonify(
434     result=getOnePerson(depart, direction, content),
435     freetime=getFreetime(depart, direction, content)
436 )
437
438
439 @app.route('/get_time_freetime/', methods=['GET'])
440 @login_verify
441 def get_time_freetime():
442     freetime_choice_raw = request.args.get('freetime_choice','')
443     #freetime_choice = freetime_choice_raw.split(',')
444     # print(depart)
445     return jsonify(
446         # TODO: Write this method.
447         #result=getPersonsByFreetimeChoice(freetime_choice)
448         #result = searchFreetime(freetime_choice)
449         result=searchFreetime(freetime_choice_raw)
450     )
451
452
453 ##### Miscellaneous entries #####
454 @app.route('/opensource/')
455 def opensource_info():
456     return render_template("opensource-info.html")
457
458 ##### run #####
459
460 if __name__ == '__main__':
461     app.run(host="127.0.0.1", debug=True)
462
463
NORMAL starter.py
"starter.py" 463L, 13478C written
python utf-8[unix] 99% 462/463 ln : 27
```

此时服务在回环地址上运行，将不能通过在同一 WiFi 下的其它设备访问服务。

之前是因为想看手机上的运行效果，所以调至广播地址，但实际上 Chrome 开发工具可以做同样的事（DevTool左上角第二个按钮）。开发时请一定考虑不同设备下的用户体验，如此时 navbar 上文字明显过多。



提交修改

```
smdsbz@zhuxiaouangsAir: ~/tmp/HR-build (zsh)
vi (vim)  %1  ~/tmp/HR-build (zsh)  %2
→ HR-build git:(master) ✗ git status      # 查看当前未提交内容
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   starter.py

no changes added to commit (use "git add" and/or "git commit -a")
→ HR-build git:(master) ✗ git add *      # 提交所有文件, '*' 为所有文件
The following paths are ignored by one of your .gitignore files:
__pycache__
Use -f if you really want to add them.
→ HR-build git:(master) ✗               # '.gitignore' 文件中包含所有你不希望提交的内容
→ HR-build git:(master) ✗               # 比如 Python 的运行时预编译文件夹 '__pycache__/'
→ HR-build git:(master) ✗               # 可以在 GitHub 创建项目的时候, 针对开发语言选择预制的 '.gitignore'
→ HR-build git:(master) ✗ # 注册修改, 一定填写有意义的 commit 信息
→ HR-build git:(master) ✗ git commit -m 'switched-back to loop-ip, sefely develop under public wifi'
[master 8fca023] switched-back to loop-ip, sefely develop under public wifi
1 file changed, 2 insertions(+), 1 deletion(-)
→ HR-build git:(master) git status      # 同步到 GitHub 前检查一次
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
→ HR-build git:(master) git push      # 同步
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 339 bytes | 339.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/SicunStudio/HR-build.git
   ad46594..8fca023  master -> master
→ HR-build git:(master) █
```

继续修改

注意：

- 切忌多人同时修改一份文件。
- 先 work，再 work perfect！提供解决方案是第一位的，完善解决方案具体实现、理解借鉴的代码是后话。