

OBJECTIVES

- Web Application Based On DB
 - DB: mysql
 - Programming Language: Python
 - Web Frame: Django
 - Web browser: firefox, chrome, ...

INSTALL DJANGO

\$pip install Django

NEW PROJECT

进入项目所在文件夹,按住shift+右键,选择"在此处打开Powershell"或者 "在此处打开cmd窗口" 也可以在命令行中通过cd 命令进入项 目所在文件夹

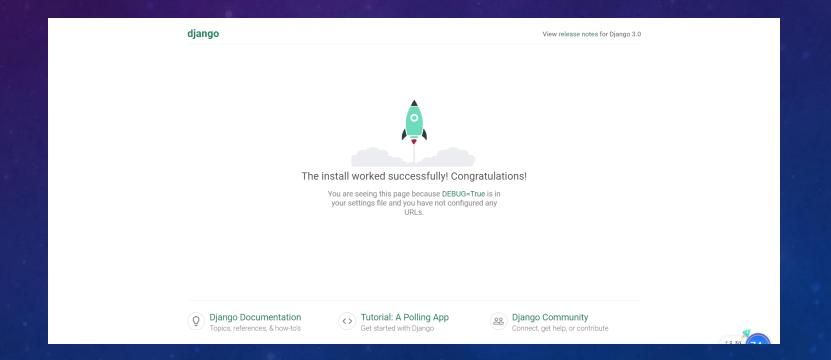
django-admin startproject mysite

```
C:\Users\hyk>e:
E:\>cd pycharm
E:\pycharm>django-admin startproject mysite
E:\pycharm>cd mysite
E:\pycharm\mysite>dir
驱动器 E 中的卷是 数据
卷的序列号是 6C47-DE85
 E:\pycharm\mysite 的目录
2020/05/08
            15:45
                       <DIR>
            15:45
                      <DIR>
2020/05/08
                                   647 manage. py
2020/05/08
            15:45
                      <DIR>
                                       mysite
                3 个目录 418,566,733,824 可用字节
```

START WEB

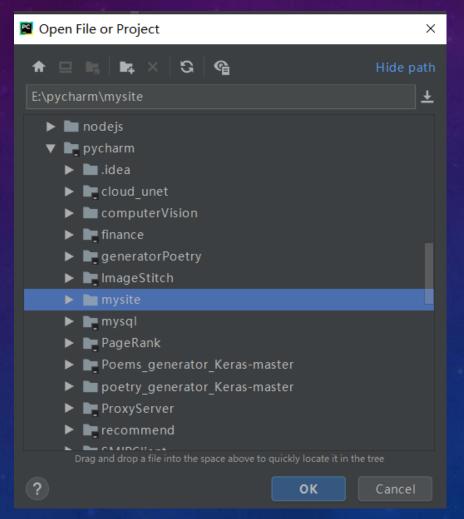
python3 manage.py runserver 0.0.0.0:8000

Web browser:localhost:8000





OPEN PROJECT WITH PYCHARM





TEMPLATES

在mysite项目下新建templates 文件夹

mysite/mysite/settings.py



TEMPLATES

在项目templates 文件夹下新建student.html,代码如下:

```
<!DOCTYPE html>
<head>
    <meta charset="UTF-8">
    <title>Student Manager</title>
</head>
    <form method="post" action="/search-student">
        {% csrf token %}
        <input type="text" name="name">
        <input type="submit" value="search">
    </form>
    \langle tr \rangle \langle th \rangle ID \langle th \rangle \langle th \rangle name \langle th \rangle \langle th \rangle dept name \langle th \rangle \langle th \rangle tot cred \langle th \rangle \langle tr \rangle
        {% for item in students %}
        {% endfor %}
    </body>
</html>
```



VIEW

在先前创建的 mysite 目录下的 mysite 目录新建一个 view.py 文件,并输入代码:

```
from django. shortcuts import render
import pymysql
def show student(request):
    db = pymysql.connect("localhost", "root", "password", "test", port=3306, cursorclass = pymysql.cursors.DictCursor)
    cursor = db. cursor()
    if request.POST:
        name = request.POST['name']
        cursor. execute (sql, ['%'+name+'%'])
        cursor. execute (sql)
    data = cursor.fetchall()
    context['students'] = data
    return render(request, 'student.html', context)
```

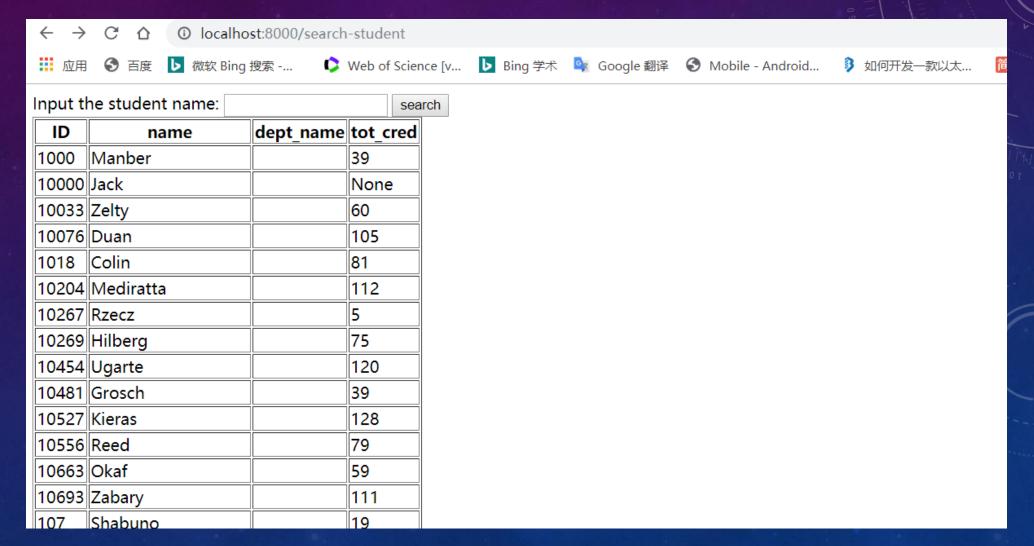
URLS

接着,绑定 URL 与视图函数。打开 urls.py 文件,删除原来代码,将以下代码复制粘贴到 urls.py 文件中:

```
from django.conf.urls import url
from . import view

urlpatterns = [
    url(r'^search-student$', view.show_student),
]
```

WEB APP EXAMPLE



PROJECT STRUCTURE

▼ **im mysite** E:\pycharm\mysite ▼ 🖿 mysite 🐔 __init__.py 🐔 asgi.py 🛵 settings.py 🛵 urls.py \rm view.py 🚜 wsgi.py ▼ 🖿 templates astudent.html 🔥 db.sqlite3 the manage.py

INTRODUCTION PROJECT

- 子目录mysite下表示工程的全局配置,分别为setttings.py、urls.py和wsgi.py,其中
 - ✓ setttings.py包括了系统的数据库配置、应用配置和其他 配置
 - ✓ view.py 处理数据库的逻辑操作
 - ✓ urls.py则表示web工程Url映射的配置
 - ✓ templates目录则为模板文件的目录
 - ✓ manage.py是Django提供的一个管理工具,可以同步数据、库等



