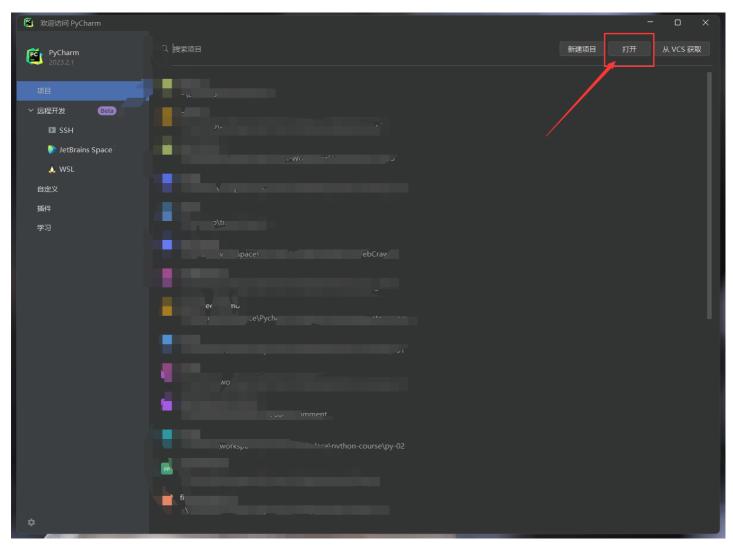
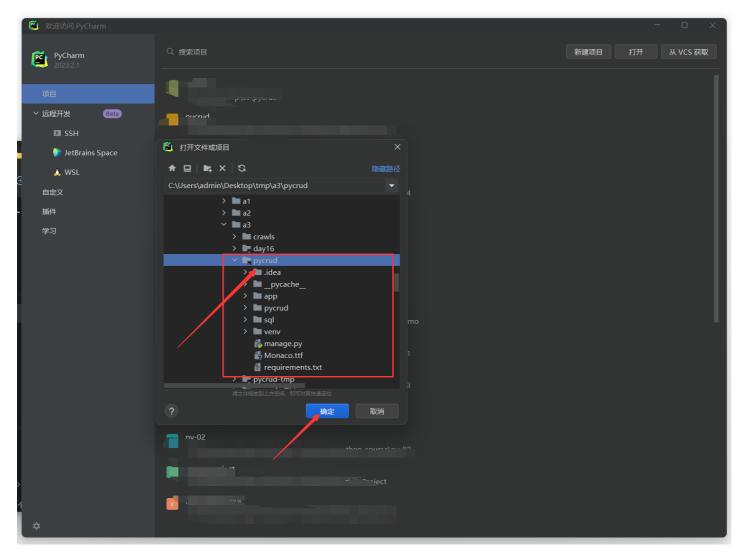
# 课程推荐系统

## 1. 打开项目

1. 打开PyCharm,没有可以下载一个社区版



2. 找到项目目录

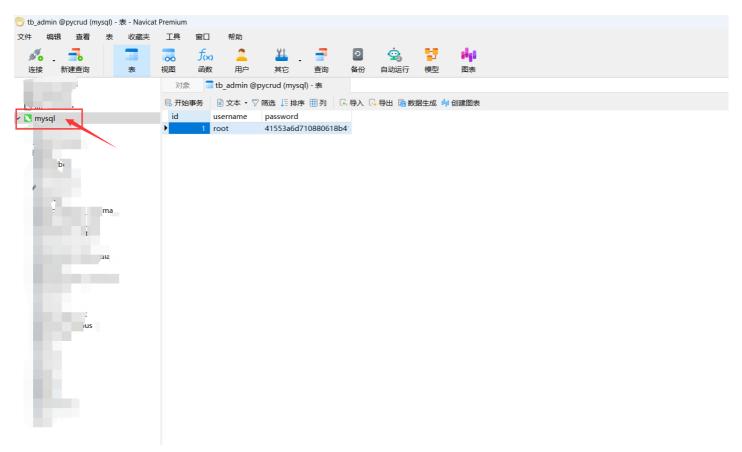


3. 根据自己的用户名和密码进行连接

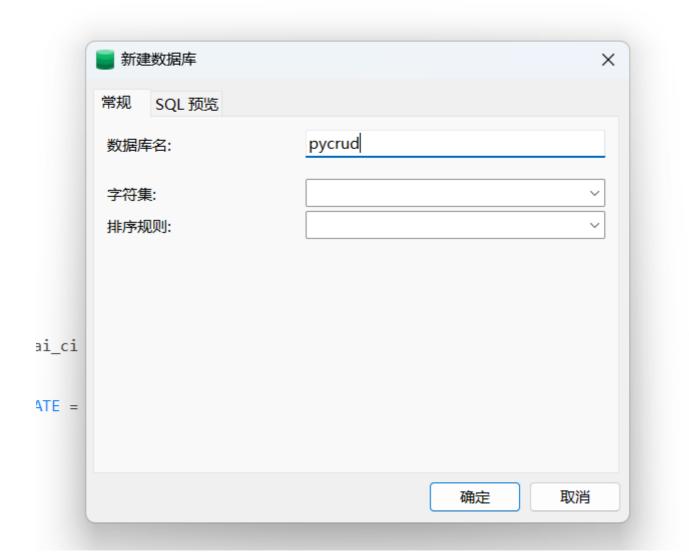
```
🖺 文件(E) 编辑(E) 视图(V) 导航(N) 代码(C) 重构(R) 运行(U) 工具(T) VCS(S) 窗口(W) 帮助(H) pycrud [C:\Users\admin\Desktop\tmp\a3\pycrud] - settings.py
pycrud > pycrud > 🔷 settings.py
                                    ⊚ 🖟 🤻 : 🗕 dj settings.py ×
  ■ 项目 ~
   pycrud C:\Users\admin\Desktop\tmp\a3\pycru
                                                                                'django.template.context_processors.debug',
       🟬 арр
                                                                                'django.template.context_processors.request',
      pycrud
                                                                                'django.contrib.auth.context_processors.auth',
        e _init_.py
                                                                                'django.contrib.messages.context_processors.messages',
        襣 settings.py
        🤷 wsgi.py
    > 🐚 sql
    > ₩ venv library根目录
                                                              WSGI_APPLICATION = 'pycrud.wsgi.application'
      e manage.py
      ⊤T Monaco.ttf
                                                              # Database
      鹬 requirements.txt
    ₩ 外部库
    ■ 临时文件和控制台
                                                              DATABASES = {
                                                                   'default': {
                                                                       'ENGINE': 'django.db.backends.mysql',
                                                                       'NAME': 'pycrud', # 数据库名字
                                                                       'USER': 'root',
'PASSWORD': '123456'
                                                                       'HOST': '127.0.0.
                                                                       'PORT': 3306,
                                                              # Password validation
                                                              # https://docs.djangoproject.com/en/4.2/ref/settings/#auth-password-valida
                                                              AUTH_PASSWORD_VALIDATORS = [
                                                                       'NAME': 'django.contrib.auth.password_validation.UserAttributeSimi
                                                                       'NAME': 'django.contrib.auth.password_validation.MinimumLengthVali
```

### 2. 导入数据库

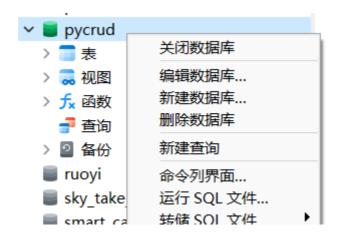
1. 打开navcat,选择本机或者远程数据库,进行连接

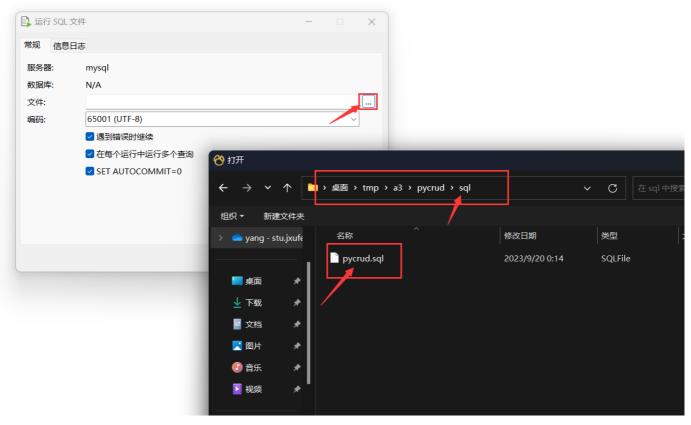


#### 2. 新建数据库

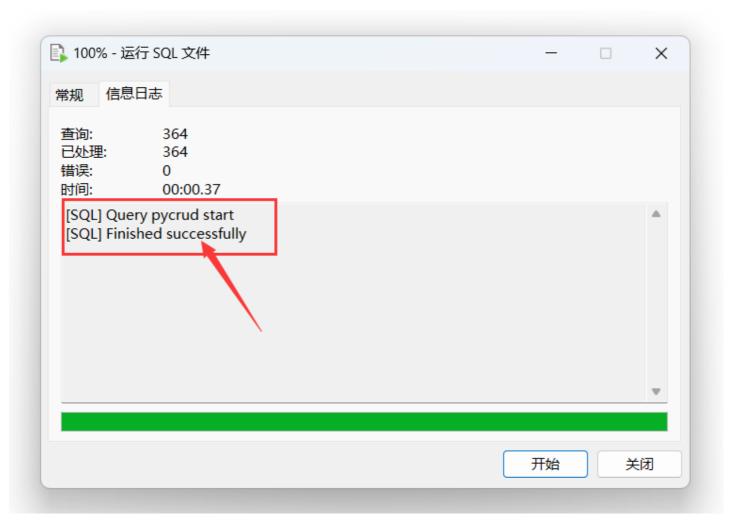


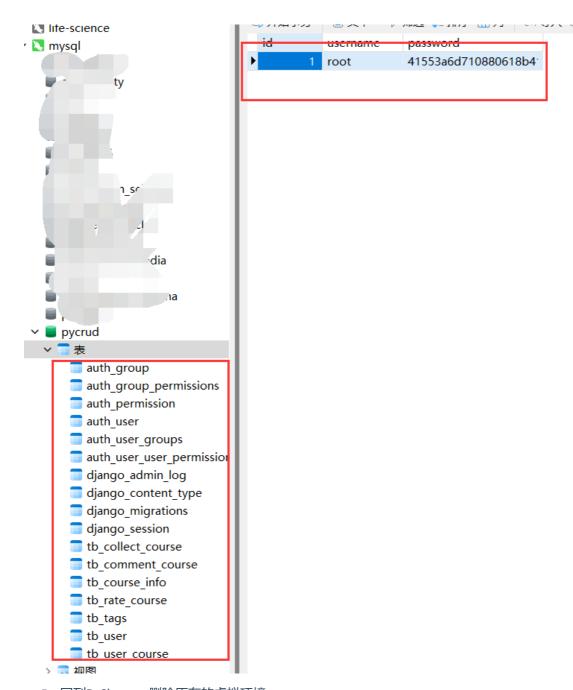
#### 3. 导入数据到数据库



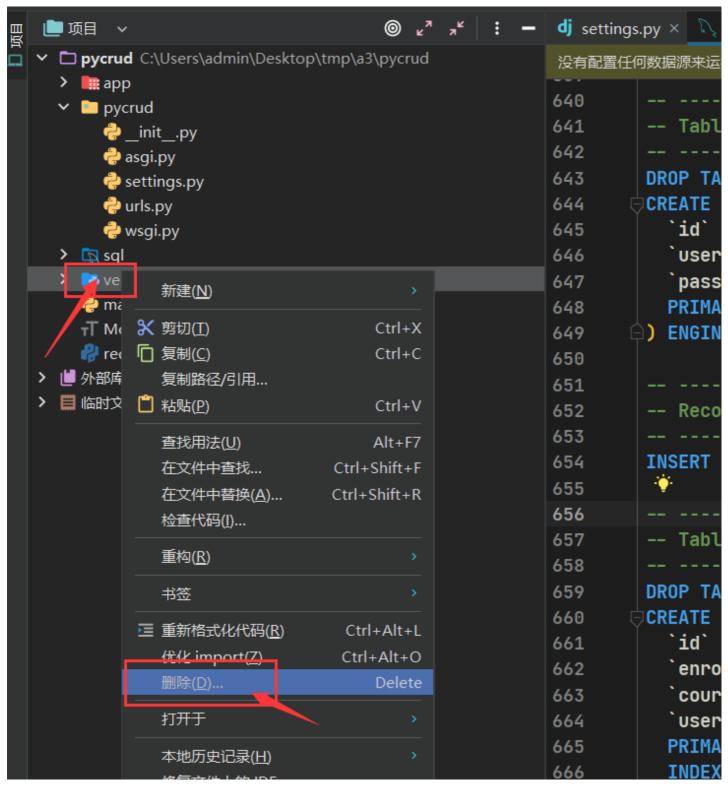


#### 4. 导入成功

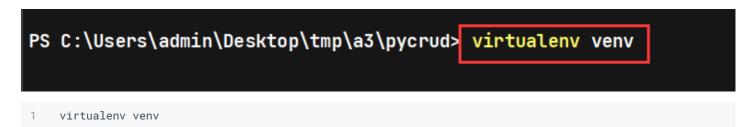




5. 回到PyCharm, 删除原有的虚拟环境



6. 创建虚拟环境



7. 修改requirements.txt内容, 更新依赖为如下

```
asgiref==3.7.2
2
     Django==4.2.5
3
     et-xmlfile==1.1.0
4
     image = = 1.5.33
5
     mysql-connector-python==8.1.0
6
     mysqlclient==2.2.0
     openpyx1==3.1.2
8
     Pillow==10.0.1
9
     protobuf==4.21.12
     six = 1.16.0
10
11
     sqlparse==0.4.4
     typing_extensions==4.8.0
12
     tzdata==2023.3
13
```

8. 激活虚拟环境

PS C:\Users\admin\Desktop\tmp\a3\pycrud\venv> .\Scripts\activate.ps1

进入venv,运行如下命令

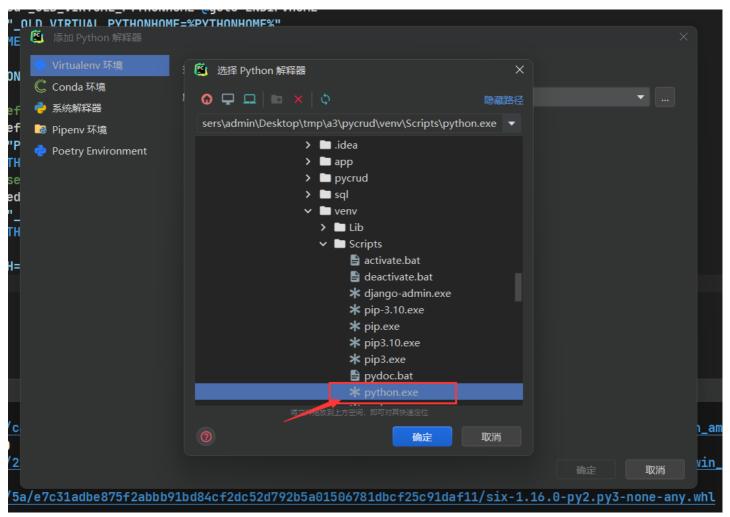
- 1 .\Scripts\activate.ps1 左边亮起(venv)标识即为激活成功
  2 .\Scripts\activate.bat
  - 9. 安装依赖

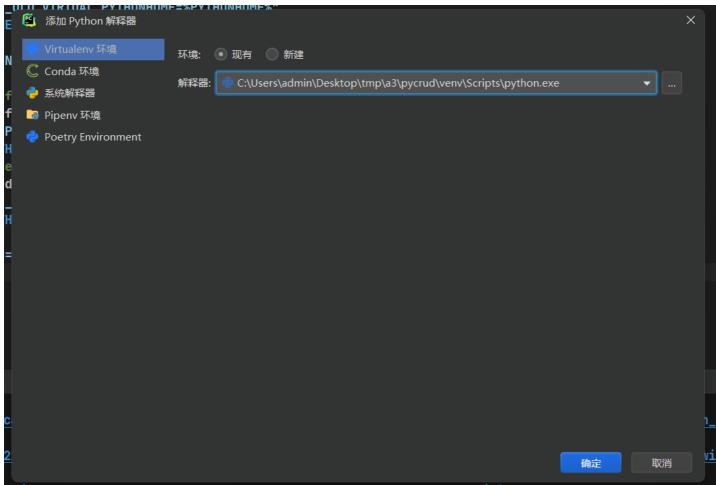
#### 

- 1 pip install -r requirements.txt
- 10. 没有报错就是成功了

```
Collecting Pillow==10.0.1 (from -r requirements.txt (line 8))
Using cached https://mirrors.bfsu.edu.cn/pypi/web/packages/23/ca/7296d769f62266c0f94bf76496bc77114e7a96d2de3d7bcba91d0ba2856f/Pillow-10.0.1-cp310-cp310-win_amd64.whl (2.5 MB)
Using cached https://mirrors.bfsu.edu.cn/pypi/web/packages/f8/21/56796f96eadb1e19746990278312de28c8dced584e38ea7ee770e912c7af2/protobuf-4.21.12-cp310-abi3-win_amd64.whl (527 kB Collecting six==1.16.0 (from -r requirements.txt (line 10))
Using cached https://mirrors.bfsu.edu.cn/pypi/web/packages/d9/5a/e7c31adbe875f2abbb91bd84cf2dc52d792b5a01506781dbcf25c91daf11/six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting sqlparse==0.4.4 (from -r requirements.txt (line 11))
Using cached https://mirrors.bfsu.edu.cn/pypi/web/packages/98/5a/66d7c9305baa9f11857f247d4ba761402cea75db6058ff850ed7128957b7/sqlparse=0.4.4-py3-none-any.whl (41 kB)
Collecting typing extensions==4.8.0 (from -r requirements.txt (line 12))
Using cached https://mirrors.bfsu.edu.cn/pypi/web/packages/24/21/7d397a4b7934ff4028987914ac1044d3b7d52712f30e2ac7a2ae5bc86dd0/typing_extensions-4.8.0-py3-none-any.whl (31 kB)
Collecting typing extensions=extensions=extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensions+extensio
```

- 11. 这种方式仅限于PyCharm社区版或者没有虚拟环境管理的IDE
- 12. PyCharm中添加虚拟环境





#### 3. 运行项目

1. 运行命令

```
(venv) PS C:\Users\admin\Desktop\tmp\a3\pycrud>
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
September 20, 2023 - 22:39:56
Django version 4.2.5, using settings 'pycrud.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

[20/Sep/2023 22:40:00] "GET / HTTP/1.1" 302 0
[20/Sep/2023 22:40:00] "GET /all_course/ HTTP/1.1" 200 31514
[20/Sep/2023 22:40:00] "GET /static/css/style.css HTTP/1.1" 200 174
```

1 python manage.py runserver

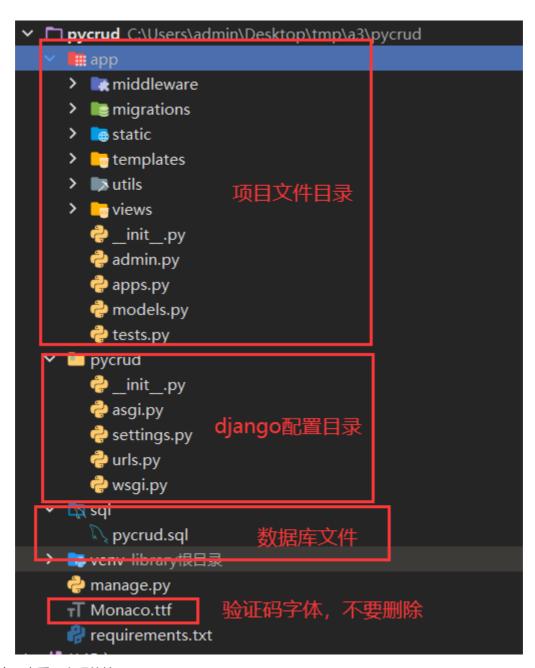
#### 2. 打开 http://127.0.0.1:8000/



### 4. 项目介绍

#### 4.1 项目目录

1. 目录



2. 在urls.py中可查看已实现的接口

```
pycrud C:\Users\admin\Desktop\tmp\a3\pycrud
                                                                                                         from django.conf import settings
                                                                                                        from django.contrib import admin
   > middleware
                                                                                                        from django.urls import path, re_path
    > migrations
                                                                                                        from django.views.static import serve
       statio
      templates
                                                                                                        from app.views import user, app, course
       views

init_.py

admin.py
                                                                                                               path('<u>admin/</u>', admin.site.urls),
        apps.py
models.py
                                                                                                                \label{lem:cot_root_root} re\_path(r'\underline{\ \ \ }', serve, \{'document\_root': settings.MEDIA\_ROOT\}, name='media'), \\
                                                                                                           path("", app.index, name="index"), # 首页
path("login/", user.login, name="login"), # 登录
path("logout/", user.logout, name="logout"), # 退出
path('image/code/', user.image_code), # 验证码
path('search/', course.search, name="search"),
path("course/<int:course_id>/", course.course, name="course"), # 具体的课程
path('all_course/', course.new_course, name="new_course"), # 新课速递
path("not_course/", course.hot_course, name="hot_course"), # 納]课程
path("sort_course/", course.sort_course, name="sort_course"), # 课程分类
# path("register/", user.register, name="register"), # 注册
        etests.py
   pycrud
       init_.py
  🖪 sql
   manage.pv
                                                                                                               # path("register/", user.register, name="register"), # 注册
# path("modify_pwd/", user.modify_pwd, name="modify_pwd"), # 修改密码
                                                                                                                # path("select/<int:course_id>/", views.select_course, name="select"), # # path("score/<int:course_id>/", views.score, name="score"), # 评分 # path("comment/<int:course_id>/", views.comment, name="comment"), # 评论
|■ 外部库
■ 临时文件和控制台
                                                                                                                # path("comment_like/<int:comment_id>/", views.comment_like, name="comment_like"), # 给评论点赞
```

3. 在 app/moduls.py 中可查看对应的ORM模型

```
🚜 🖈 🗜 🛑 dj settings.py × 🛝 pycrud.sql × 🦸 requirements.txt × dj manage.py × dj urls.py × 🦺 models.py
  ♦ № 23 G
> 📦 User(models.Model)
                                                                    db_table = 'tb_tags'
Tags(models.Model)
                                                                     verbose_name = "课程类别"
 CourseInfo(models.Model)
                                                                     verbose_name_plural = "课程类别"
 RateCourse(models.Model)
                                                   164 📬
                                                                 def __str__(self):
 CollectCourse(models.Model)
                                                                     return self.name
                                                            class CourseInfo(models.Model):
                                                                 name = models.CharField(verbose_name="课程名", max_length=255)
course_code = models.CharField(unique=True, verbose_name="课程编号", max_length=255)
                                                                 teacher = models.CharField(verbose_name="讲师", max_length=255)
about = models.TextField(verbose_name="描述")
pic = models.FileField(verbose_name="对面图片", max_length=64, upload_to='course_cover')
                                                                 tags = models.ForeignKey(
                                                                     Tags,
                                                                     on_delete=models.CASCADE,
                                                                     verbose_name="类别
                                                                     related_name="tags",
                                                                     blank=True,
                                                                 select_num = models.IntegerField(verbose_name="选修人数", default=0)
                                                                 db_table = 'tb_course_info'
                                                                     verbose_name = "课稿
                                                                     verbose_name_plural = "课程"
                                                   194 📬
                                                                 def __str__(self):
                                                                     return self.name
                                                                 course = models.ForeignKey(
```

4. 其他部分可自行探索,不会再问