Sheets 文件夹置于工程主目录下 setting 中 INSTALLED APPS 增加一项: 'Sheets'

工作目录下终端输入命令 python manage.py migrate python manage.py makemigrations Sheets python manage.py migrate Sheets

views 中调用数据库操作接口: from Sheets import db_intfs 用户注册/登陆/注销:

```
def create_superuser(username, password, email):
    "创建超级用户,所有参数均为字符串类型"

def create_new_doctor(username, password, name, sex, tel, email, department, age):
    "创建医生用户,除了 age 为整形,所有参数均为字符串类型,sex 请传'f'或'm'"

def create_new_patient(username, password, name, sex, tel, email, age):
    "创建患者用户,除了 age 为整形,所有参数均为字符串类型,sex 请传'f'或'm'"

def verify_and_login(username, password, login_request):
    "检验用户信息是否合法: 若合法则调用 auth.login 登陆且返回 True,否则返回 False,最后一个参数为 HttpRequest 类型"

def logout(logout_request):
    "注销用户登陆,最后一个参数为 HttpRequest"
```

新增表项:

数据库查询:

```
def all_departments():
    "获取所有科室信息,返回字典列表 department: [{第一个科室信息},{第二个科室信息},...]"
```

```
department[0]['depa_name'] 科室名称
    department[0]['depa name'] 科室描述
def doctor_of_depa(depa_name):
   医生信息的字典键值:
   doctor[0]['user id'] 医生用户 id
   doctor[0][doctor_id'] 医生编号 id
   doctor[0]['doctor_name'] 医生姓名
   doctor[0]['doctor_sex'] 医生性别
   doctor[0]['doctor tel'] 医生电话
   doctor[0]['doctor_age'] 医生年龄
   doctor[0]['doctor_department'] 医生所属科室
def get_user_info(user_id):
    若为医生:
   user_info['group'] = 'doctor'
   user_info['user_id']
   user_info['doctor_id']
   user_info['doctor_name']
   user_info['doctor_sex']
   user_info['doctor_tel']
   user info['doctor email']
   user_info['doctor_department']
   user_info['doctor_age']
   若为患者:
   user_info['group'] = 'patient'
   user_info['user_id']
   user_info['patient_id']
   user_info['patient_name']
   user_info['patient_sex']
   user_info['patient_tel']
   user_info['patient_email']
    user_info['patient_age']
def look_up_medi_record(record_id):
   "通过病历 ID 调取整条病历记录,返回字典 record"
   病历状态说明: 医生通过设置病历表中 confirm, cancel, complete 三个布尔字段来改变病历状态
   confirm
                         complete
                                     status
                                     预约中 (newappo)
                                     已拒绝 (refused)
                                     待诊断 (waiting)
                                     已诊断(handled)
                                     己作废(calloff)
```

```
有误
                                         (error)
   record['record_id']
   record['appo_confirm']: 医生是否确认了预约,布尔型
   record['appo_complete']: 医生是否完成了预约,布尔型
   record['appo_cancel']: 医生是否取消了预约,布尔型
   record['doctor id']
   record['doctor_name']
   record['doctor sex']
   record['doctor_tel']
   record['doctor email']
   record['doctor_department']
   record['doctor_age']
   record['patient_id']
   record['patient_name']
   record['patient sex']
   record['patient_tel']
   record['patient_email']
   record['patient_age']
   record['submit_time']:预约提交时间,格式'YYYY-MM-DD HH:MM:SS'
   record['appo_time']: 预约时间点,格式'YYYY-MM-DD HH:MM:SS'
   record['problem']: 患给出的症状描述
   record['appo message']: 患者预约时可能提交的附带信息
   record['cancel_message']: 医生取消/拒绝预约时的携带信息
   record['symptom']: 医生给出的患病名称
   record['detail']: 医生给出的患病细节
   record['diagnosis']: 医嘱
   record['prescription']: 医生给的处方,也是字典列表
       prescription: 列表类型[
          字典 1{
             'drug': 药品名称
             'usage': 用法
             'dosage': 用量
          字典 2{
             'drug': ''
             'usage': ''
             'dosage': ''
def doc_ask_newappo(doctor_id):
                          k, 返回字典列表 tmp: [{患者1的预约情况},{患者2的},{患者3
```

```
tmp[i]['record_id']: 病历 id
   tmp[i]['patient id']
   tmp[i]['patient_name']
   tmp[i]['patient_sex']
   tmp[i]['patient_tel']
   tmp[i]['patient_email']
   tmp[i]['patient age']
   tmp[i]['submit_time']:预约提交时间,格式'YYYY-MM-DD HH:MM:SS'
   tmp[i]['appo time']: 预约时间点,格式'YYYY-MM-DD HH:MM:SS'
   tmp[i]['problem']: 患者症状描述
   tmp[i]['appo_message']: 患者预约时可能提交的附带信息
def doc_ask_waiting(doctor_id):
                            录,返回字典列表:[{患者1的预约情况},{患者2的},{患者3
   tmp[i]['record_id']
   tmp[i]['patient id']
   tmp[i]['patient_name']
   tmp[i]['patient_sex']
   tmp[i]['patient_tel']
   tmp[i]['patient_email']
   tmp[i]['patient_age']
   tmp[i]['submit_time']
   tmp[i]['appo time']
   tmp[i]['problem']
   tmp[i]['appo_message']
def pat_ask_history(patient_id):
                双历史病历,返回字典 tmp:包含三个键'refused','handled','calloff',分
   别对应被拒绝的预约记录,被处理的预约记录,被取消的预约记录。键值为字典列表:
   'refused':[{患者第一条被拒记录},{第二条},..],
   'handled':[{患者已完成的第一条看病记录},{第二},...],
   'calloff':[{被医生取消的第一条预约记录},{第二条},...]}"
   举例:若查询1号患者的历史病历,返回 tmp 字典,查看其第一条已经处理完成的病历记录
   tmp['handled'][0]['record_id']: 病历编号
   tmp['handled'][0]['doctor_id']
   tmp['handled'][0]['doctor_name']
   tmp['handled'][0]['doctor_sex']
   tmp['handled'][0]['doctor_tel']
   tmp['handled'][0]['doctor_email']
   tmp['handled'][0]['doctor_department']
   tmp['handled'][0]['doctor_age']
   tmp['handled'][0]['submit_time']
   tmp['handled'][0]['appo_time']
```

```
tmp['handled'][0]['problem']
   tmp['handled'][0]['appo message']
   tmp['handled'][0]['symptom']: 医生给出的患病名称
   tmp['handled'][0]['detail']: 医生给出的患病细节
   tmp['handled'][0]['diagnosis']: 医嘱
   tmp['handled'][0]['prescription']: 医生给的处方,也是字典列表
       prescription: 列表类型[
          字典 1{
              'drug': 药品名称
              'usage': 用法
              'dosage': 用量
          字典 2{
              'drug': ''
              'usage': ''
              'dosage': ''
def pat_ask_record(patient_id):
   "通过患者 ID 获取以处理与待处理的病历返回字典 tmp: { 'undone':[{患者正在预约中的第一条记
   录},{第二条},..], 'done':[{患者已完成的第一条看病记录},{第二}, ...]}"
   tmp['undone'][0]['record id']:正在预约中的第一条记录的病历编号
   tmp['undone'][0]['doctor_id']
   tmp['undone'][0]['doctor_name']
   tmp['undone'][0]['doctor_sex']
   tmp['undone'][0]['doctor_tel']
   tmp['undone'][0]['doctor email']
   tmp['undone'][0]['doctor_department']
   tmp['undone'][0]['doctor_age']
   tmp['undone'][0]['appo_time']: 预约时间点,格式'YYYY-MM-DD HH:MM:SS'
   tmp['done'][0]['record_id']: 已经完成的第一条记录的病历编号
   tmp['done'][0]['doctor_id']
   tmp['done'][0]['doctor_name']
   tmp['done'][0]['doctor_sex']
   tmp['done'][0]['doctor_tel']
   tmp['done'][0]['doctor email']
   tmp['done'][0]['doctor_department']
   tmp['done'][0]['doctor_age']
   tmp['done'][0]['appo_time']
   tmp['done'][0]['symptom']: 主诉: 感冒
   tmp['done'][0]['detail']: 症状细节: 发烧
   tmp['done'][0]['diagnosis']: 诊断: 病毒性感冒
   tmp['done'][0]['prescription']: 医生给的处方,也是字典列表
```

更新数据库:

```
def make_appointment(patient_id, doctor_id, appo_time, submit_time='1970-01-01 00:00:00', comfirm=True, problem='患者暂未描述症状', message='无消息'):
    "患者预约医生,前两个参数分别为患者 id 和医生 id,appo_time 格式为'YYY-MM-DD HH:MM:SS'"

def doctor_confirm(record_id):
    "医生确认预约"

def doctor_diagnose(record_id, symptom, detail, diagnosis, prescription=[{"drug":'*',"usage":"*","dosage":"*"}]):
    "医生记录病历信息,完成诊断,symtom 为主诉,detail 为病症细节描述,diagnosis 为诊断结果,prescription 请传字典列表,若无就别传这个参数"

def doctor_cancel(record_id, cancel_message='更多信息请联系您预约的医生'):
    "医生取消或者拒绝一次预约,第一个参数为整形,第二个参数为字符串类型"
```

删除表项:

```
def delete_doctor(doctor_id):
    "通过医生 id 删除医生"

def delete_patient(patient_id):
    "通过患者 id 删除患者"

def delete_department(name):
    "通过部门字符串名称删除部门"

def delete_medi_record(record_id):
    "通过 id 删除一条病历记录"

def delete_drug(name):
    "通过药品名删除药品"
```