## Topic: Project Setup, Modern Admin Panel Part 1

## Speaker: Udemy Instructor Destiny | Notebook: Health Management System Using Django



- 1. Create a new folder and a new environment. Activate it.
- \$ python -m venv venv
- \$ source venv/scripts/activate
- \$ pip freeze
- \$ pip install django
- 2. Create a new project: in this new folder.
- \$ django-admin startproject HMS\_main.
- 3. Run the server:
- \$ python manage.py runserver

http://localhost:8000/

- 4. Open now a VS Code with this folder or type:
- \$ code .
- \* we have to use PIP INSTALL DJANGO again in VS Code's terminal.

```
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
 python -m venv venv
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
$ venv\scripts\activate
bash: venvscriptsactivate: command not found
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
$ source venv/scripts/activate
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
$ pip install django
Collecting django
 Downloading Django-5.1.2-py3-none-any.whl.metadata (4.2 kB)
Collecting asgiref<4,>=3.8.1 (from django)
 Using cached asgiref-3.8.1-py3-none-any.whl.metadata (9.3 kB)
Collecting sqlparse>=0.3.1 (from django)
 Using cached sqlparse-0.5.1-py3-none-any.whl.metadata (3.9 kB)
Collecting tzdata (from django)
 Using cached tzdata-2024.2-py2.py3-none-any.whl.metadata (1.4 kB)
Downloading Django-5.1.2-py3-none-any.whl (8.3 MB)
                                            - 8.3/8.3 MB 19.7 MB/s eta 0:00:00
Using cached asgiref-3.8.1-py3-none-any.whl (23 kB)
Using cached sqlparse-0.5.1-py3-none-any.whl (44 kB)
Using cached tzdata-2024.2-py2.py3-none-any.whl (346 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.8.1 django-5.1.2 sqlparse-0.5.1 tzdata-2024.2
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
$ pip freeze
asgiref==3.8.1
Django==5.1.2
sqlparse==0.5.1
tzdata==2024.2
(venv)
osilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
$ django admin startproject HMS_main .
bash: django: command not found
(venv)
osilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
$ django-admin startproject HMS_main .
(venv)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
$ python manage.py runserver
Watching for file changes with StatReloader
[12/Oct/2024 19:34:46] "GET / HTTP/1.1" 200 12068
Performing system checks...
System check identified no issues (0 silenced).
You have 18 unapplied migration(s). Your project may not work properly until you
apply the migrations for app(s): admin, auth, contenttypes, sessions. Run 'python manage.py migrate' to apply them.
October 12, 2024 - 19:33:35
Django version 5.1.2, using settings 'HMS_main.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
(venv)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
$ code .
```

- \$ python manage.py startapp base
- \$ python manage.py startapp doctor
- \$ python manage.py startapp patient
- \$ python manage.py startapp userauths

```
∠ Health_Mgt_Sy

×
      EXPLORER
                               gitignore
                                             settings.py ×
                               hms_prj > • settings.py > • INSTALLED_APPS
    ∨ HEALTH_MGT_S... 📴 🖔 🗗 ···
      > base
                                       ALLOWED_HOSTS = []
      > doctor

∨ hms_prj

       > _pycache_
       __init__.py
       asgi.py
       settings.py
                                       INSTALLED_APPS = [
       urls.py
                                             'django.contrib.admin',
       wsgi.py
                                             'django.contrib.auth',
      > patient
      > Resource
                                            'django.contrib.contenttypes',
      > userauths
                                             'django.contrib.sessions',
      > venv
                                             'django.contrib.messages',
      gitignore
                                             'django.contrib.staticfiles',

■ db.sqlite3

      manage.py
                                            'base',
                                             'doctor',
                                  42
                                             'patient',
                                             'userauths'
```

6. Create a new folder, TEMPLATES and update our SETTINGS.PY.

```
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                                                                                                        P Health_Mgt_System
                                        settings.pv X
                           hms_prj > 🍁 settings.py > 🚱 ROOT_URLCONF
    ∨ HEALTH_MGT_S... 🛱 🖔 🗐 ···
O
     > base
                                  MIDDLEWARE = [
     > doctor
                                        'django.middleware.clickjacking.XFrameOptionsMiddleware',
     ∨ hms_prj
      > _pycache_
      _init_.py
                              56
                                   ROOT_URLCONF = 'hms_prj.urls'
      asgi.py
      settings.py
      urls.py
                                   TEMPLATES = [
      wsgi.pv
      > patient
                                            'BACKEND': 'django.template.backends.django.DjangoTemplates',
     > Resource
                                            'DIRS': [os.path.join(BASE_DIR, 'templates')],
     > templates
     > userauths
                                             'APP_DIRS': True,
     > venv
                                            'OPTIONS': {
     gitignore
                                                 context_processors': [
     ■ db.sqlite3
                                                     'django.template.context_processors.debug',
     manage.py
                                                     'django.template.context processors.request'
                                                     'django.contrib.auth.context_processors.auth',
                                                     'django.contrib.messages.context_processors.messages',
                                                ],
```

7. Set up the STATIC AND MEDIA configurations.

```
P Health_Mgt_System
 EXPLORER
                                        settings.py X
                          hms_prj > • settings.py > • MEDIA_URL
∨ HEALTH_MGT_S... 📴 🖔 🗿 ···
                                  USE_TZ = True
 > base
 > doctor
 ∨ hms_prj
  > __pycache__
    _init_.py
  asgi.py
  settings.py
  urls.py
  wsgi.py
                                  STATIC URL = 'static/'
 > patient
                                  STATIC_ROOT = os.path.join(BASE_DIR, 'staticfiles')
 > Resource
                                  STATICFILES DIRS = [
 > templates
                                       os.path.join(BASE_DIR, 'static')
 > userauths
 > venv
 .gitignore
 ■ db.sqlite3
 manage.py
                                  MEDIA URL = '/media/'
                           130
                                  MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
```

8. Update SETTINGS.PY to override default login/logout and user models:

```
×
                                                                      Health_Mgt_System
      EXPLORER
                                            settings.py X
                              hms_prj > • settings.py > {} os
Ф
     Explorer (Ctrl+Shift+E)
      > doctor
                                      from pathlib import Path

∨ hms_prj

                                 14
                                      import os
       > _pycache_
                                       from django.contrib.messages import constants as messages
       __init__.py
      asgi.py
     settings.py
       urls.py
                                       BASE_DIR = Path(__file__).resolve().parent.parent
       wsgi.py
      > patient
      > Resource
```

9. For messages and forms configuration, update our SETTINGS.PY:

```
×
                                                                    Health_Mgt_System
      EXPLORER
                                            settings.py X
                              hms_prj > 🌵 settings.py > ...

∨ HEALTH_MGT_SYSTEM

      > base
      > doctor
                                      MEDIA_URL = '/media/'
Q
      ∨ hms_prj
                                      MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
       > _pycache_
      _init_.py
      asqi.py
                                      LOGIN_URL = '/'
     settings.py
      urls.py
                                      LOGIN_REDIRECT_URL = '/'
      wsgi.py
                                      LOGOUT_REDIRECT_URL = '/'
      > patient
      > Resource
      > templates
      > venv
                                      MESSAGE_TAGS = {
      gitignore
                                           messages.ERROR: 'danger',

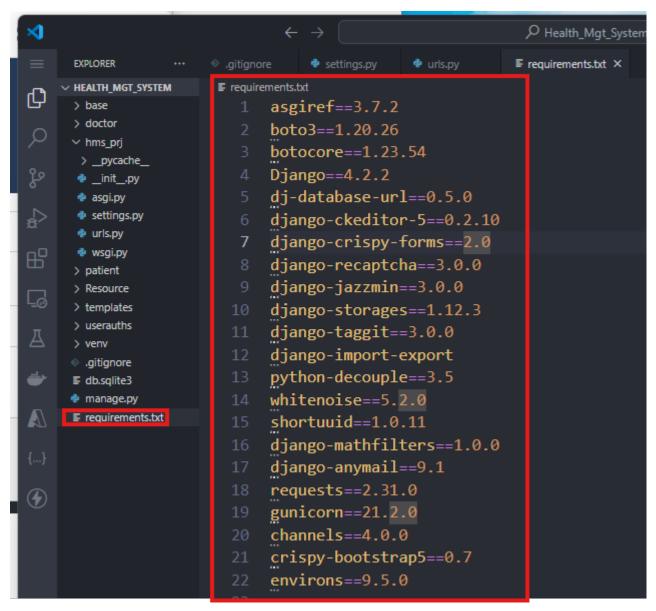
■ db.sqlite3

     manage.py
                               145
\mathbb{A}
                                      CRISPY ALLOWED TEMPLATE PACKS = 'bootstrap5'
                                      CRISPY_TEMPLATE_PACK = 'bootstrap5'
(4)
```

10. Update our project URLS.PY to include the path to our static and media files:

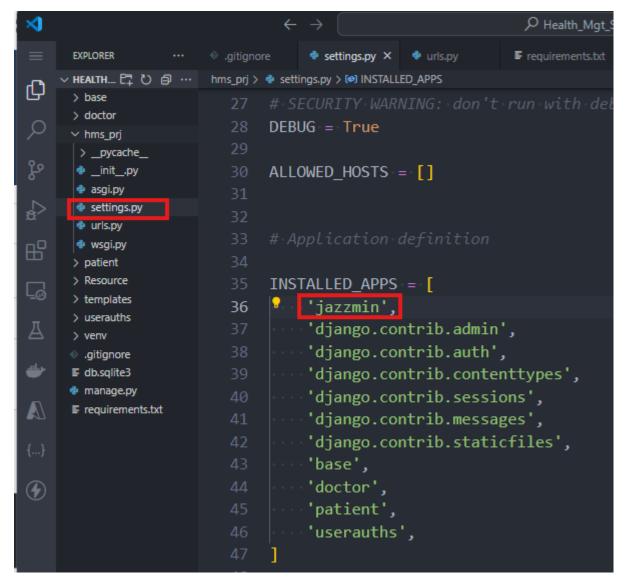
```
×
                                                                                                  EXPLORER
                                             urls.py
    ∨ HEALTH_MGT_SYSTEM
                                1. Add an import: from other_app.views import Home
     > base
     > doctor
                                2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
Q
     ∨ hms_prj
                            Including another URLconf
     > _pycache_
                                1. Import the include() function: from django.urls import include, path
     _init_.py
                                Add a URL to urlpatterns: path('blog/', include('blog.urls'))
     asgi.py
     settings.py
     urls.pv
                            from django.contrib import admin
     wsgi.py
                            from django.urls import path
                       19 from django.conf import settings
     > Resource
                       20 from django.conf.urls.static import static
     > templates
     > userauths
     > venv
                            urlpatterns = [
     gitignore
                                path('admin/', admin.site.urls),
     ■ db.sqlite3
oldsymbol{\Lambda}
                           urlpatterns += static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
                            urlpatterns += static(settings.STATIC_URL, document_root=settings.STATIC_ROOT)
```

- 11. To access our ADMIN PANEL, run the migrations to see the default model.
- \$ python manage.py migrate
- 12. Create your superuser
- \$ python manage.py createsuperuser
- 13. Install the packages from the RESOURCE folder. This will install the packages used by the instructor.
- \$ pip install -r requirements.txt

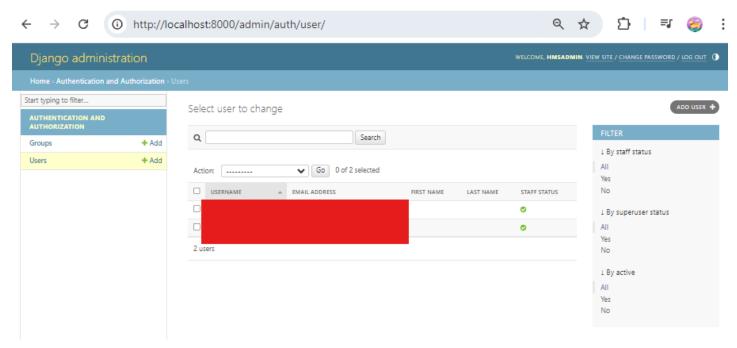


14. Instead of using default DJANGO ADMIN DASHBOARD, we use the package <u>DJANGO JAZZMIN</u> for a more customizable and modern look.

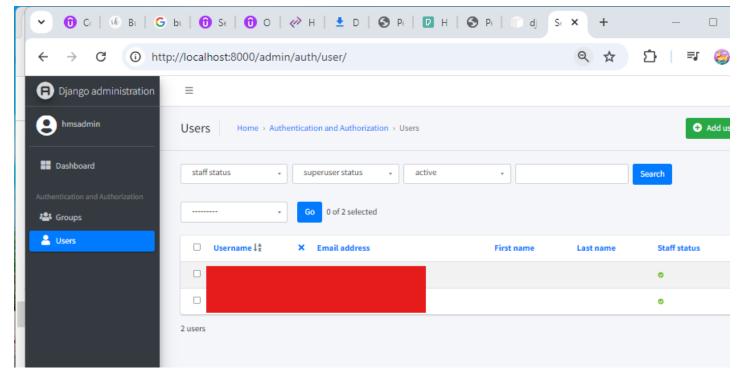
Include JAZZMIN in your INSTALLED\_APPS in SETTINGS.PY



BEFORE JAZZMIN:



AFTER JAZZMIN:



15. To add a more customizable look to the admin panel, add in the SETTINGS.PY the JAZZMIN\_SETTINGS. Documentation here.

```
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 EXPLORER
                                settings.py X  urls.py
                                                            F requirements.txt
                   hms_prj > 🌵 settings.py > 🝘 JAZZMIN_SETTINGS

→ HEALTH MGT SYSTEM

                                                      ajango.ab.moacta.btgnacorte
 > base
 > doctor

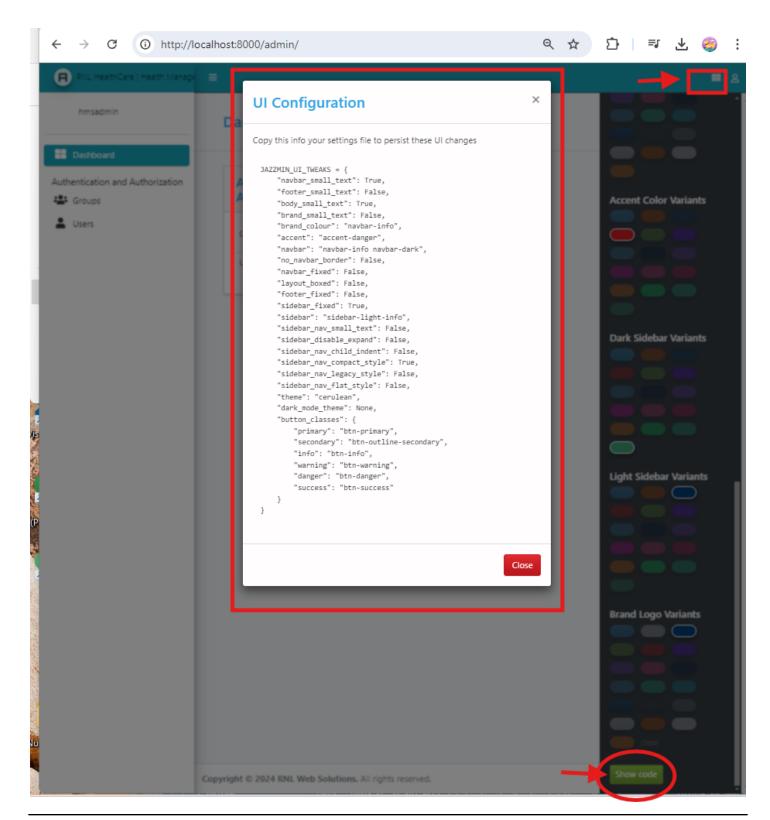
√ hms_prj

                           JAZZMIN_SETTINGS = {
  > _pycache_
 __init__.py
 asgi.py
                                "site_title": "RNL HealthCare | Health Management System",
settinas.pv
 urls.py
 wsgi.py
 > patient
                                "site_header": "Health Management System",
 > Resource
 > static
 > templates
                                "site_brand": "RNL HealthCare | Health Management System",
 > userauths
 > venv
 gitignore

■ db.salite3

                                "welcome_sign": "Welcome to the RNL HealthCare, Login Now",
 manage.py
 F requirements.txt
                                "copyright": "RNL Web Solutions",
                                "order_with_respect_to": ["base",],
                                     "auth": "fas fa-users-cog",
                                     "auth.Group": "fas fa-users",
                                "show_ui_builder": True,
                     183
                           JAZZMIN UI TWEAKS = {
                                "navbar_small_text": False,
                                "footer small text": False,
```

16. Reload your page and in the admin dashboard, you will see the UI builder, you need to copy this code and add this as JAZZMIN\_TWEAKS. COPY THIS CODE INTO YOUR SETTINGS.PY.



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