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 .

 \ast we have to use PIP INSTALL DJANGO again in VS Code's terminal.

```
MINGW64:/c/Users/Rosilie/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_System
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
(venv)
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
(venv)
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)
cosilie@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.
Run
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)
kosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Health_Mgt_Syst
$ code .
```

^{5.} Create new apps and update SETTINGS.PY. I CHANGED THE PROJECT NAME FROM 'hms_prj' TO 'HMS_MAIN'

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

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	EXPLORER ···	.gitignore	🔹 settings.py 🗙	
ብ	∨ HEALTH_MGT_S [큐 ひ @ …	• hms_prj > 💠 setti	ings.py > 🝘 INSTALLED_APP	s
	> base > doctor	28 ALL(OWED_HOSTS = []	
	✓ hms_prj	29		
00	> _pycache_	30		
R.	🤹 _initpy	31 # Aj	pplication defi	nition
	 asgl.py settings py 			
ġ^	 securigs.py urls.pv 	33 INS	TALLED_APPS = [
n0	🔹 wsgi.py	34	'django.contri	b.admin',
Ш	> patient		'django.contri	b.auth',
	> Resource	36	'diango.contri	b.contenttypes'.
<u>–</u> 0	> userauths		'diango.contri	b.sessions'.
Д	> venv	38	'diango contri	h massagas'
	 .gitignore .gitignore 	20	'django.contri	h statiofilos'
<u></u>	manage.pv	59		D.Staticilles,
-	• managapy	40	'base',	
		41	'doctor',	
•~		42	'patient',	
			'userauths',	
		44]		
		15		

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



7. Set up the STATIC AND MEDIA configurations.

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=	EXPLORER ····		🔹 settings.py 🗙	
æ	~ HEALTH_MGT_S 문∓ ひ @ …	hms_prj > 💠 setti	ngs.py > (@) MEDIA_URL	
G	> base	116 USE_	_TZ = True	
0	> doctor			
\mathcal{P}	∨ hms_prj	118		
0.0	> _pycache_	119 #•St	atic files (CSS, JavaScript, Images)	
R	<pre>initpy</pre>	120 #.ht		
~	e asgi.py			
.	settings.py			
	e uris.py			
88	🔹 wsgi.py	123 STA	<pre>IC_URL = 'static/'</pre>	
	> patient	124 STA	TIC ROOT = os.path.ioin(BASE DIR. 'staticfiles')	
G	> Resource	125 STA		
	> templates	125 517		
Д	> userautris	126	os.path.join(BASE_DIR, "static")	
		127		
حظ	 .grugnore E db solite3 	128		
-	manage.pv	129 #·Me		
	• menogepy	130 MED	A URL = '/media/'	
		131 MED	A ROOT - os path join(RASE DIR . 'media')	
11		131 1100		
ι <i>f</i>		132		



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≡	EXPLORER			🔹 settings.py 🗙	
æ	V HEALTH MGT SYSTEM	hms_p	rj > 🌵 set	tings.py > { } os	
Ŀ	> base				
	> doctor		3 fro	m pathlib import Path	
2	∨ hms_prj	1	1 imr	port os	
	>pycache	1	- c		
ို့မှ	🍨initpy		5 fro	m django.contrib.messages import constants as messages	
Ĩ	🌵 asgi.py				
	🔹 settings.py				
~	🍨 urls.py			E DIR - Path(file) resolve() narent narent	
	🔹 wsgi.py				
	> patient				
	> Resource				

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

⋈		$\leftarrow \ \rightarrow$	
	EXPLORER ····	 .gitignore 	🄹 settings.py 🗙
æ	∨ HEALTH_MGT_SYSTEM	hms_prj > 🌵 sett	ings.py ≻
G	> base	131 #·M	edia files configuration
	> doctor	132 MED	IA_URL = '/media/'
	∨ hms_prj	133 MED	IA_ROOT = os.path.join(BASE_DIR, 'media')
00	> _pycache_	134	
Å	<pre>initpy</pre>		verrides default Dianao's
	asqi.py	126 100	TN LIDE _ 17
±,>	e urls nv	130 LOG	
	 unspy wsnipy 	137 LOG	IN_KEDIRECI_UKL = /
Ш	> patient	138 LOG	OUT_REDIRECT_URL = '/'
	> Resource	139 #·A	UTH_USER_MODEL = ''
Lø	> templates	140	
	> userauths	141	
A	> venv	142 MES	SAGE TAGS = {
	 gitignore 	1/13	messages FRROR: 'danger'
-	F db.sqlite3	144	messages.ennon. aanger ,
•	🍨 manage.py		
		145	
		146 CRI	SPY_ALLOWED_TEMPLATE_PACKS = 'bootstrap5'
		147 CRI	SPY_TEMPLATE_PACK = 'bootstrap5'
		148	
(\bullet)		149 # D	efault primarv kev field type
		150 # h	ttps://docs.djangoproject.com/en/4.2/ref/settings/#def

```
10. Update our project URLS.PY to include the path to our static and media files:
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∢		\leftrightarrow \rightarrow		
	EXPLORER +++	🔹 .gitignore 🏾 🏺 settings.py	🔹 urls.py 🛛 🗙	
-	✓ HEALTH_MGT_SYSTEM	hms_prj > 🌵 urls.py > 😚 static		
பு	> base	11 1. Add an	<pre>import: from other_app.views import</pre>	Home
\sim	> doctor	12 2. Add a l	JRL to urlpatterns: path('', Home.as_	view(), name='home')
\mathcal{Q}	✓ hms_prj	13 Including anot	her URLconf	
	>pycache	141	the include() function: from diango u	nls.import.includonath
Ъ.	🍨initpy		the include() function. If one ujango.u	lude(lblae uslel))
	🍨 asgi.py	15 2. Add a l	IRL to uripatterns: path(blog/ , inc	lude(blog.uris))
	🍨 settings.py	16 """		
	🔹 urls.ov	17 from django.co	ontrib import admin	
RP-	🔹 wsgi.py	18 from diango.ur	ls import path	
	> patient	19 from diango co	onf import settings	
	> Resource		af unla static impact static	
	> templates	20 from django.co	onf.uris.static import static	
	> userauths	21		
A	> venv	22 urlpatterns =	[
	 .gitignore 	23 path('admi	in/'. admin.site.urls).	
-	■ db.sqlite3	24]	, ,	
	🔹 manage.py	24		
\mathbb{A}		25		
		26 urlpatterns +=	<pre>static(settings.MEDIA_URL, document_</pre>	<pre>root=settings.MEDIA_ROOT)</pre>
		27 urlpatterns +=	<pre>static(settings.STATIC_URL, document)</pre>	<pre>_root=settings.STATIC_ROOT)</pre>
		28		

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

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	EXPLORER ····	 .gitignore 	🌵 settings.py	🌵 urls.py	₣ requirements.txt ×
Ð	<pre> HEALTH_MGT_SYSTEM base </pre>	Frequirements.	.txt ziref==3.7.2		
Q	> doctor ∽ hms_prj	2 bot 3 bot	co3==1.20.26	- 54	
ço	> _pycache_ _initpy	4 Dja 5 dj-	ingo==4.2.2	10 5 0	
æ	 asgr.py settings.py urls.py 	6 dja	ingo-ckedito	r-5==0.2.10	
₿	wsgi.pypatient	7 gja 8 dja	ingo-crispy- ingo-recaptc	ha==3.0.0	
G	Resource templates userauths	9 <u>d</u> ja 10 dja	ingo-jazzmin ingo-storage	==3.0.0 s==1.12.3	
A	> venv gitignore 	11 dja 12 dja	ngo-taggit= ngo-import-	=3.0.0 export	
-	db.sqlite3 manage.py	13 <u>p</u> yt 14 whi	hon-decoupl tenoise==5.	e==3.5 2.0	
	requirements.txt	15 <u>s</u> ho 16 dia	ortuuid==1.0 ngo-mathfil	.11 ters==1.0.0	
{}		17 dja	ingo-anymail	==9.1	
۲		18 <u>r</u> eq 19 gun	icorn==21.2	.0	
		20 <u>c</u> ha 21 <u>c</u> ri	nnels==4.0. .spy-bootstr	0 ap5==0.7	
		22 <u>e</u> nv	/irons==9.5.	0	

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

Include JAZZMIN in your INSTALLED_APPS in SETTINGS.PY

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ብ	~ HEALTH 日 ひ <i>目</i> …	hms_prj > 🌵 settings.py > 🝘 INSTALLED_APPS	
G	> base	27 # SECURITY WARNING: don	t run with del
0	> doctor	28 DEBUG = True	
	✓ nms_prj	29	
പ്പ	<pre>pycucnc initpy</pre>	30 ALLOWED HOSTS = []	
0	🔹 asgi.py	31	
	🌵 settings.py		
~	🔹 urls.py	22 # Application definition	
B	🔹 wsgi.py	55 #*Appeteucton*ucjentetor	,
	> patient > Resource		
L_3	> templates	35 INSTALLED_APPS = [
	> userauths	36 jazzmin',	
Ä	> venv	37 django.contrib.admi	.n',
	 .gitignore 	38 django.contrib.auth	l',
	db.sqlite3	39 django.contrib.cont	enttypes',
	manage.py E requirements tyt	40 'django.contrib.ses	ions',
E 27	P requirements.txt	41 'django.contrib.mess	ages',
{}		42 'django.contrib.stat	cicfiles',
(····)		43 ····'base',	
(4)		44 ''doctor',	
		45 ····'patient',	
		46 'userauths',	
		47]	

BEFORE JAZZMIN:

←	\rightarrow	G	0	http://localhost:8000/admin/auth/user/
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Django administ	tration	WELCOME, HMSA I	DMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home - Authentication and	d Authorization > U		
Start typing to filter		Select user to change	ADD USER +
AUTHENTICATION AND		select user to change	
Groups	+ Add	Q Search	FILTER
Users	+ Add		1 By staff status
		Action: Go 0 of 2 selected	Yes
		USERNAME EMAIL ADDRESS FIRST NAME LAST NAME STAFF STATUS	No
		□	1 By superuser status
		• • • • • • • • • • • • • • • • • • •	All
		2 users	No
			⊥ By active
			All
			Yes
			10

AFTER JAZZMIN:

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\leftarrow \rightarrow C \odot http	://localhost:8000/admin/auth/user/		Q ☆	රු 💷 🍪
Django administration	=			
hmsadmin	Users Home > Authentication and Authorization > Users			Add us
Dashboard	staff status + active	•		Search
Authentication and Authonization	Go 0 of 2 selected			
Lusers	Username 🚛 🗙 Email address	First name	Last name	Staff status
				0
				0
	2 users			

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



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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