Django 3.02

Django tutorials: <https://docs.djangoproject.com/en/3.0/intro/tutorial01/>

<https://code.visualstudio.com/docs/python/tutorial-django>

<https://developer.mozilla.org/en-US/docs/Learn/Server-side/Django>

<https://docs.djangoproject.com/en/3.0/howto/static-files/>

(1) create a peroject folder "mysite"

(2) **create a virtaul env** in mysite: python -m venv env

(3) Open the project folder in VS Code by running "code .",

(4) Open the Command Palette (View > Command Palette or (Ctrl+Shift+P)). Then select the Python: Select Interpreter command:

(5) Run Terminal: Create New Integrated Terminal (Ctrl+Shift+`) from the Command Palette, which creates a terminal and automatically

**activates the virtual environment by running its activation script**.

(5b) If you open a separate command prompt or terminal, activate the environment by running source env\scripts\activate

(6) **install Django** in the venv: python -m pip install django Use python -m django --version to check version

(7) Create a Django project **django-admin startproject web\_project .** (by use of . at the end) that the current folder is your project folder

(8) Run **pyhon manage.py runserver**  OR pyhon manage.py runserver 5000

Create an app:

(9) **python manage.py startapp <polls>**  in the same folder as manage.py

(10) Create the tables in the database: **python manage.py migrate**  ## run this commenc to initialize admin, auth, contenttypes, sessions.

run the command-line client for your database and type \dt (PostgreSQL), SHOW TABLES; (MariaDB, MySQL), .schema (SQLite), or SELECT TABLE\_NAME FROM USER\_TABLES; (Oracle) to display the tables Django created.

> sqlite3.exe ==> .tables

https://www.sqlitetutorial.net/sqlite-tutorial/sqlite-show-tables/

(11) **Create a debugger launch profile in VC code**. Select Debug view, then select the Gear icon ==> select Python: Django ==> launch.json. The "django": true entry tells VS Code to enable debugging of Django page templates.

(12) Create an admin superuser: **python manage.py createsuperuser** --username=<username> --email=<email> winter/mxx.2x2x

(13) Create a model for polls app (in models.py), then run **python manage.py makemigrations polls**

(14) python manage.py sqlmigrate polls 0001 ## check the SQL statements

python manage.py migrate ## create those model tables in your database.

(15) **python manage.py shell**

(16) Collect static files: **python manage.py collectstatic** - define the STATIC\_ROOT = STATIC\_ROOT = os.path.join(BASE\_DIR, 'static\_collected')