**Django**

1. **Setup**

$python --version

$pip install django

$python -m django --version

$pip freeze

1. **Flow**

**User**

**Django**

**URLs**

**Views**

**Templates (HTML, CSS)** **Models (database)**

$django-admin startproject wscubetech

$python manage.py runserver 4444(optional)

$python manage.py migrate

Project Name = "wscubetech"

* wscubetech
  + manage.py
  + db.sqlite3 (migrate)
  + wscubetech (app)
    - \_\_pycache\_\_
    - \_\_init\_\_.py
    - asgi.py
    - settings.py
    - urls.py
    - wsgi.py
    - views.py
  + templates (html, CSS)
  + static (JavaScript)
  + media (images, videos)

1. **Migration & Migrate**

* settings.py

DATABASES = {

'default': {

'ENGINE': 'django.db.backends.sqlite3',

'NAME': BASE\_DIR / 'db.sqlite3',

}

}

* When we do migrate. It creates default database and tables and keep it into db.sqlite3 database.
* Migrate command:
  + $python manage.py make-migrations (when we create new model)
  + $python manage.py migrate (migrate database (create tables))
* Use dbbrowser to see the tables inside database.
* We can create super user. Super user can go in django-admin
* Install **db browser** for SQLite.

1. **Create Superuser in Django**

* $python manage.py createsuperuser
  + Username: admin
  + Email: testing@gmail.com
  + Password: Testing@123
  + Password (again): Testing@123
  + Create user anyway? [y/N]: y

1. **URLs (Route) & Views**

* URLs are also called Route. (urls.py)
  + Main URL: wscubetech.com
  + wscubetech.com/blogs
  + Types of data use in routes: **int** (3), **str** (“alpha”), **slug** (eg. “hello-ws-ip”)
* Views: It could be a ***function*** or a ***class***. (views.py)
  + The Logic is executed for different URLs (https Method)
  + It prepares and response the data. (render on html page)

1. **Render a HTML Template as Response**

* Put html file into template folders.
* Set the location of template folder in ***settings.py***.
* Passing data from a django view to a template