

SIMPLE PYTHON DJANGO NOTES:

Django- This is a high level web framework that uses python as the programming language. It allows one to develop secure and maintainable websites.

Django installation:

- ❖ To install Django in your system, download python then in your terminal "***pip install django***".
- ❖ If you have a python IDE(Integrated development environment), then have python installed in your system and add integrate the python into your IDE as an interpreter and lastly in your IDE's terminal "***pip install django***".

KEY DJANGO COMPONENTS:

MODELS

- This defines the database schema to be used for your app

VIEWS

- This handles the logic of your application (more like contains your python functions or your python code).

TEMPLATES

- Renders HTML to be served to the user.
- If you are using HTML as your front-end then you use this to save your HTML code.

Creating a Django project:

Create an app in your IDE.

URL's and Views:

- Define your URL patterns in the url.py file within your app.
- This is where create the URL's that your front-end will access the backend using.
- View handles HTTP requests and returns HTTP responses
- URLS are mapped using the urls.py file.

Models and database:

- Models define the structure of your database. In our case we are using a mongo DB. If are to use Djongo you define it in the settings.py file . But instead we are using a connection string
- Models are defined in the model.py in the app.

- To create database tables based on your models run these in your timetable:
"python manage.py makemigrations" and
"python manage.py migrate".

Django Admin:

- This manages site content.
- Create super user
"python manage.py createsuperuser"
- You can access the admin panel at :
<http://localhost:8000/admin>

Django Admin:

- Use Django's template language to render dynamic content in your HTML

Static Files:

- Store static files like JS, CSS and images in the static directory.

Creating a Django project using PyCharm:

Download and install PyCharm as your IDE from JetBrains.

Download and install python.

Open PyCharm, create a new Django project and add python as your interpreter.

- Open PyCharm, then follow these steps to add python as your interpreter.
File>settings>Project:your_project_name>python interpreter

In your terminal install Django.

- Access the terminal in your project then run "***pip install Django***"

Now build on your app.