

Explain the concepts in form of questions (and a little more):

- 1- Web server is a part of connection that client by browser can connect to it and receive data or send it.
and nginx is a web server or a special proxy that help us in important contexts: balance load(speed and balance when many clients wants to connect), cach data(more speed to see data you got before), security, compression(like what Netflix does).
- 2- Communicate between client and server is with TCP connection that need to know server's IP and port.
So protocol (https or http) give us the port and a part of url that points to domain give us IP through DNS.
- 3- This subject was too funny to study :))
The url has some parts: the first part is the protocol(usually https or http) and it's how client and server send messages or data to each other and understand their means.
And https is https with security (some keys and certificates and complicated things).
Second part is the domain and "domain names system" (DNS) knows what IP it refers to. DNS book(sth know all domains) is in your browser or if it's not it search bigger servers to find it.
And the following parts of url points to specific page and special part of the page(usually with a key value thing).

4,5- to continue previous question, when you send a http request the server gets it and after processes sends your browser to show you. The response may have media or sth else but usually has a html page! (sometimes we will see it's just a view that the server handles it) And the browser with CSS makes it beautiful and whit Javascript makes it interactive.

Django is here to receive httprequest(has routs and urls), process it, make a response and get data from database and sent it to your browser.

6- MVC:

- model: the logical part that manage database and work with it

- view: show response to user and get data from it.

- Controller: the interface between model and view and user(routs).

MVT: Django is a little different

- Model: the same responsibility.

- View: the interface between model and template and user(routs).

- Template: show response to user(usually html) and get data from it.

7- it's a Isolate environment from main python that is installed in your device and it uses because in a project you need some packages that isn't necessary in other projects or different version of package or transfer the project in other system or server,... makes all of them safer.

8- template is page(html) that the server handles it and show to user but REST Framework uses to prepare response(xml or Jason) and send to browser and with React(or frontend things) shows to user.(with API)

The first is better for CEO and is easier but the second is better to put of pressure from server and give it to browser to handle it(front end) and use in mobile too.

9, 10- follow this steps:

in directory:

```
djanfo-admin startproject "name"
```

```
python manage.py help
```

```
python manage.py startapp "appname"          add  
"appname" in app list
```

now you hava an app so you can start coding:

you have view.py file for now it's all functions that your app will do in intract with the user so write functions

or classes that get request and pass httpresponse or render template

now you need a page to show your view so creat urls.py and put your view in a path

now add this urls in project/urls.py

if you put it " it means else pages go and find in include("myapp.urls")

and if put 'home/' it means start with it and then go to "myapp.urls" see what pages are there