Django Python

Node js vs Django

To explain simply, if you are building a car Node js provides you tools to make parts from scratch and assemble the parts, whereas Django is like a well stablished car manufacture company with all the necessary parts which have manufacturing machines that helps you to assemble car.

First, lets learn to create all necessary folders and connect them.

Starting a project

django-admin startproject demo_site

Select folder where you want to start new project and run above code on Vs Code terminal This automatically creates folder (demo_site) and file (manage.py) and this is where you will be performing all the action throughout the project. This is also called project level file.

Loading project on Live Server

python manage.py runserver

If you want to run project on customized port try: python manage.py runserver 8080

Creating app folder

python manage.py startapp landing_app

This will create number of .py files automatically, among them view.py file is the place where we write all the stuffs that we want to display on our webpage.

You have to manually create urls.py file within app level folder and provide links of view.py and connect our app level to project.

In app level: Creating view and connecting it with url

view.py

from django.http import HttpResponse def index(request):

return HttpResponse("Hello World!")

urls.py

from django.urls import path form . import views

```
urlpatterns =[
          path('',views.index,name='index')]
```

In project level: Connecting app level urls with project level urls

urls.py

```
form . import views
from django.urls import path,include

urlpatterns =[
    path('demo_app/',include('demo_app.urls'),
    path('admin/',admin.site.urls),]
```

views.py

```
from django.http.response import HttpResponse def homepage_view(request):
    return HttpResponse("This content will be displayed on home page ur!!")
```

#DYNAMIC VIEWS & LOGIC

from django.urls import path

For example, suppose we are creating one magazine and we want separate view.py for sport, finance, politics and others and link all the views.py to our applevel urls.py

Doing these manually line by line would violate DRY principle so we introduce Dynamic way

return HttpResponse(str(result))

```
urls.py
from django.py import path
form . import views

urlpatterns=[
          path('<str:topic>/',views.news_view),
          path('<int:num1>/<int:num2>', views.addition_view)]
```