Make app :

Python manage.py startapp first:

Appfile name:

\_\_init\_\_.py: package for python

Admin.py: help us to show this app into the paneladmin in djangopaneladmin

Views.py: get request from client and request to client

Models.py: get and post data from database

Test.py: testing for app

Apps.py: …

Folder: magriations

If you make a app you shold insert a appname into a settings -> installed app

Lesson 1

How can I use the views and urls

Urls

urlpatterns = [

    path('admin/', admin.site.urls),

    path ('hello/',display),

]

Views:

from django.shortcuts import render

from django.http import HttpResponse

def display(request):

    return HttpResponse("hooo")

time show:

def displaydatetime (request):

    dt = datetime.datetime.now()

    s = "your time is" + str(dt)

    return HttpResponse(s)

urls:

urlpatterns = [

    path('admin/', admin.site.urls),

    path ('hello/',display),

    path('time/', displaydatetime),

]

Use include in url :

When you have a another urls.py on the other app you can use the of include on the base urls.py

From Django.conf.urls import include

We say use mvt protocol for this project so we can use a templates :

Templates in this project:

We can make temlatesApp:

Mkdir:temlates-> temlatesApp

Ok,this states we should know about settings.py so: Base\_Dir== show to pc about root of program (managr.py)

In the list of setting to name of TEMPLATES =[

‘DIRS’ =[ os.path.join(BASE\_DIR,’templates’

)],

]

If we want use the templates in the views so:

Def lllll(request):

Return render(request,”html filename.html”)

Security:

Authontication:

Username --------🡪 app ----🡪db

Pass=--------🡪

Authorization---🡪user -------🡪group ---🡪 premiossion if one of user is admin use

Templates:

Created the project

Created an app (add to settings)

Created templates folder (add to settings)

Created an filehtml as temlates

M --🡪V ---🡪 T

T --🡪 V --🡪 M

Next we should a function in view and add the function in urls

Defind a fub-nction in the view

DTL:

Django template Library--🡪1\_{{ variable }} , 2\_{% csrf\_tocken %} ,{%if condition %} {% for I in range %}-🡪templatetag

Template engine : This mean who read a template file ? and we say template Django engin you can go to settings.py in temlates

 'BACKEND': 'django.template.backends.django.DjangoTemplates',

We want to use the variables in the template for project:

Views template.html

Return render(request , “template.html” , context = {‘name’:’ali’} ------🡪 {{name}}

Static file: img, css , file

1. Create folder static
2. Defind into the settings.py with staticfiles\_dirs = [os.path.join(BASE\_DIR,”filename for root”)]
3. Static\_uel=”/static/ ”

Now we want to static file in template:

<html>

    <body>

        <img src="{% static 'img/aks.jpg' %}">

         <h1>>

            "{{firstname}} is a big company"

        </h1>

    </body>

</html>

But we have error in this code block. Why? Because we don’t use the {%load staticfik%}

{% load staticfiles %}

<html>

    <body>

        <img src="{% static 'img/aks.jpg' %}">

         <h1>>

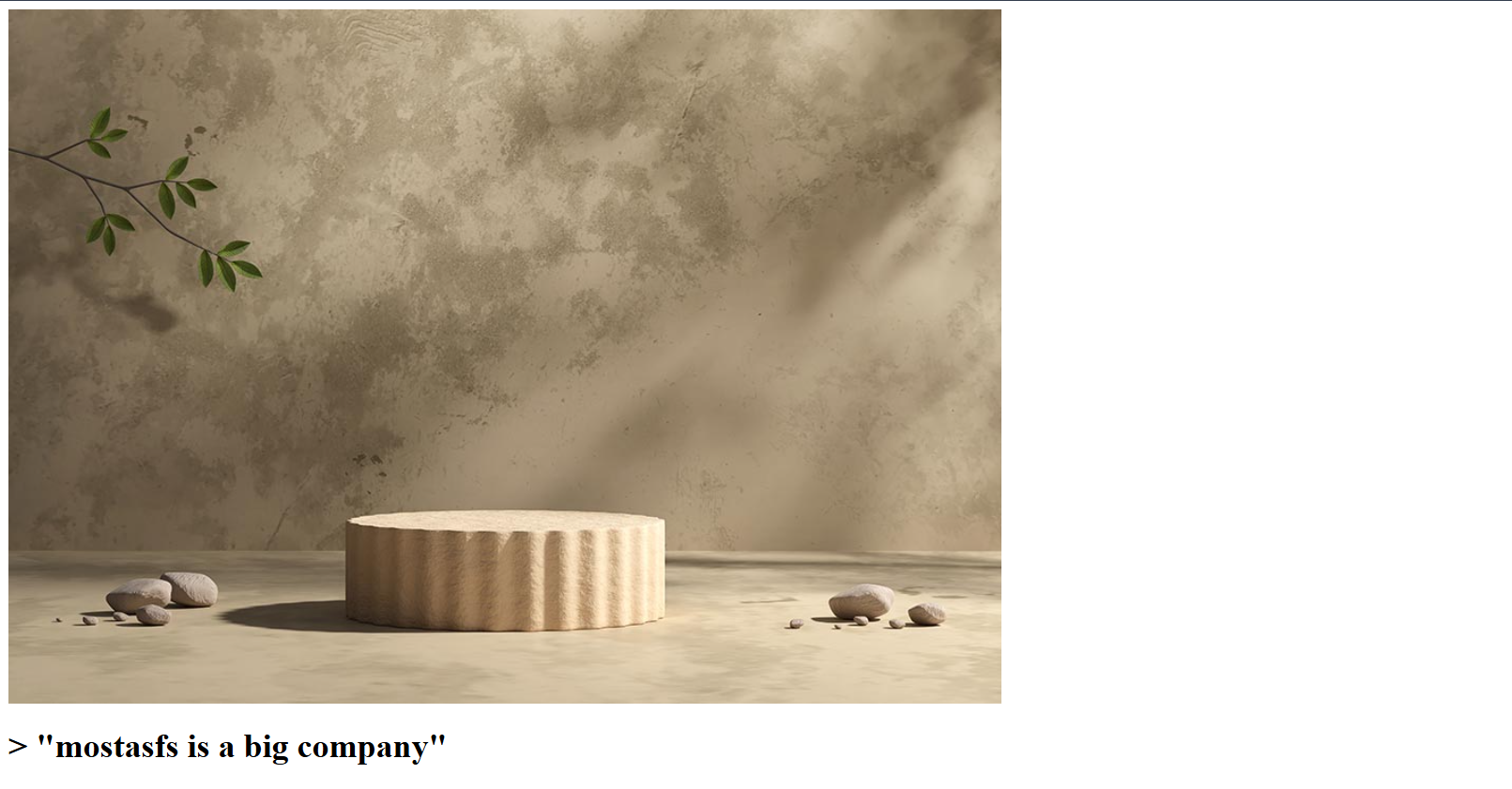
            "{{firstname}} is a big company"

        </h1>

    </body>

</html>

That is True!!!!



Result:

C:\Users\Lenovo\Desktop\rastava\technolife>mkdir templates

C:\Users\Lenovo\Desktop\rastava\technolife>mkdir static

C:\Users\Lenovo\Desktop\rastava\technolife>cd static

C:\Users\Lenovo\Desktop\rastava\technolife\static>mkdir img

C:\Users\Lenovo\Desktop\rastava\technolife\static>mkdir css

C:\Users\Lenovo\Desktop\rastava\technolife\static>cd ..

C:\Users\Lenovo\Desktop\rastava\technolife>cd templates

C:\Users\Lenovo\Desktop\rastava\technolife\templates>mkdir templatesapp

C:\Users\Lenovo\Desktop\rastava\technolife\templates>cd

Model:

History pass : db ==🡺sql

Now : db--🡪model

What is the models: model is a pythonic class

Class model(x):🡺cloumn

Firstname==🡺field or row

If we want to convert the python code to sql you can use the commend :python manage.py makemigrations

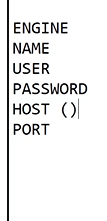
And …. Migrate

If we want check connection for my db : in shell python

In [1]: from django.db import connection

In [2]: c=connection.cursor()

For connect to other db for example my sql:



First we should install the xamp or wamp to connection this place to mysql;

Logical operator for query:

Selective columns;

Student.objects.all().values(‘id’,’firstname’)

Aggregative functions :

Mathematic ---🡪

From Django.db.models

Avg,Sum.Max,Min

St = student.objects.all().aggreate(Avg(field name of model))

Crud in orm:

Create:

Forms :