Notice : if copy DIR need/possible set Settings > Project Interpreter add venv DIR

-- 1

--create in repository

--config gitignore

--install env in terminal -->

python -m venv venv

venv\Scripts\activate

pip install django

pip freeze

{

asgiref==3.9.1

Django==5.2.5

sqlparse==0.5.3

tzdata==2025.2

}

--upgrade pip

python -m pip install --upgrade pip

create new project

in venv activate

django-admin startproject mysite1 .

if create project with PyCharm up step not need

only gitignore need to set

--struchter

mange.py mange all commad

in projet folder in case mysite1

\_\_init\_\_.py all files in folder init on run server

asgi.py chanel control

setting.py all config and relted its and manged addres files

urls.py save urls

wsgi.py related by apache and we server

- example create new test url

-create new vw file side manage.py

from django.http import HttpResponse

def test\_http(request):

return HttpResponse("Hello, world. ")

add in url.py

from django.contrib import admin

from django.urls import path

from d1.vw\_t1 import test\_http

urlpatterns = [

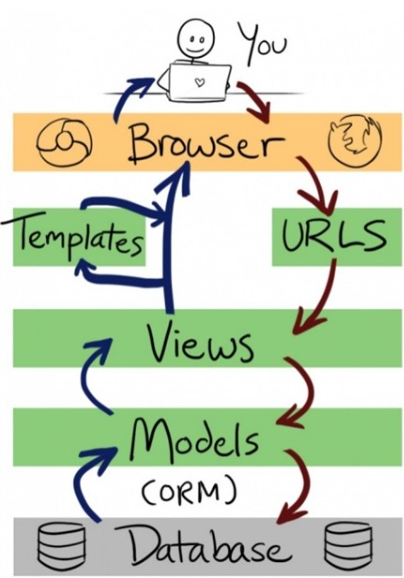
path('admin/', admin.site.urls),

path('test\_http',test\_http),

]

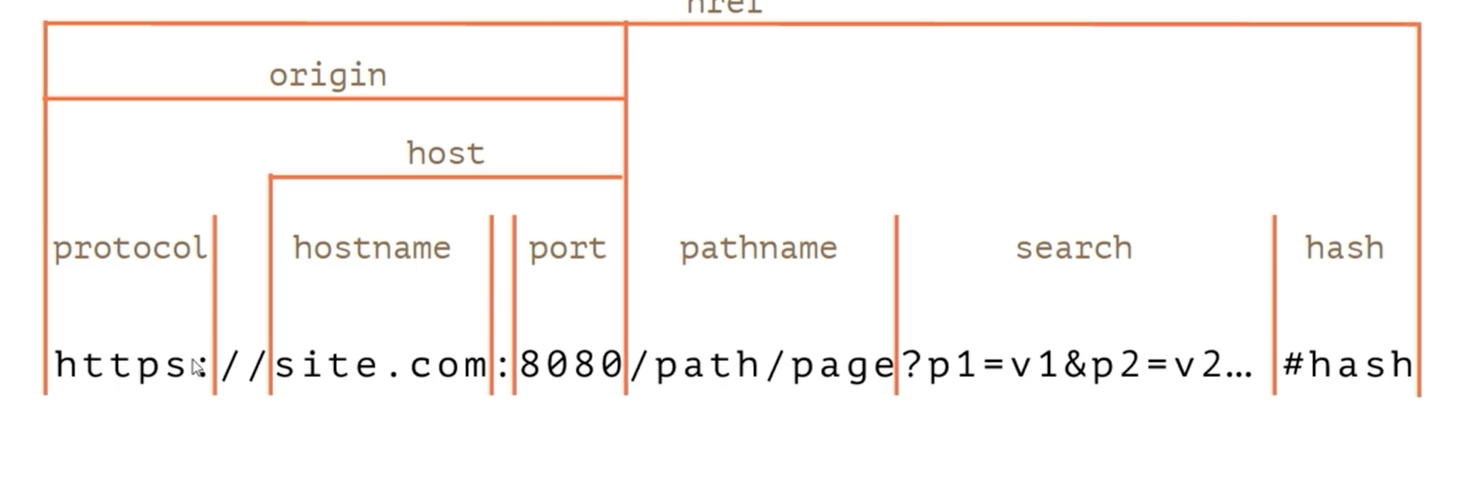
MVC in other structure

MVT in Django



url parameter

base url



Start app

python manage.py startapp website1

add to setting

example for app urls

can be call view path in based project url file

in view file app

from django.http import HttpResponse,JsonResponse  
  
  
  
def test\_http2(request):  
 return HttpResponse('<h1>test\_h2 http</h1>')

from website1.views import test\_http2

and in based project url file

urlpatterns = [

path('test\_http2',test\_http2),

]

Or

add view path in app url

and call in based project url file

in view file

from django.http import HttpResponse,JsonResponse  
  
  
  
   
  
def test\_http3(request):  
 return HttpResponse('<h1>test\_h3 http</h1>')

and create/add url.py in app

from django.urls import path  
from website1.views import test\_http3  
urlpatterns = [  
 #jahantetst1  
 path('test\_http3',test\_http3),  
]

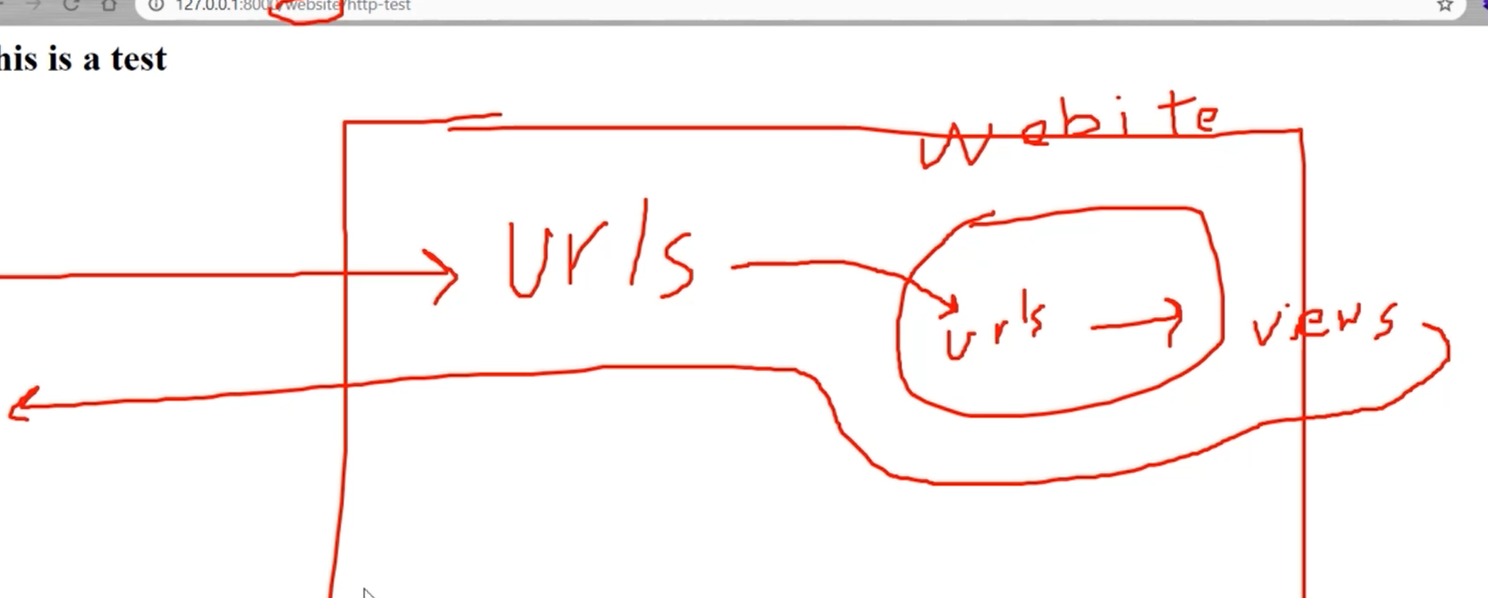
and in based project url file

from django.urls import path  
from django.urls import include

urlpatterns = [  
 path('admin/', admin.site.urls),  
  
 #jahantetst1  
   
 path('website1/',include('website1.urls')),  
]

and ruserver

<http://127.0.0.1:8000/website1/test_http3>



Example

In view website

from django.http import HttpResponse,JsonResponse  
def home(request):  
 return HttpResponse('<h1>Home page </h1>')  
def about(request):  
 return HttpResponse('<h1>About page </h1>')  
def contact(request):  
 return HttpResponse('<h1>contact page </h1>')

in url website

from django.urls import path  
from website1.views import \*  
urlpatterns = [  
 #jahantetst1  
 path('home',home),  
 path('about', about),  
 path('contact', contact),  
]

notice: if path('home',home), 🡪 path('',home),

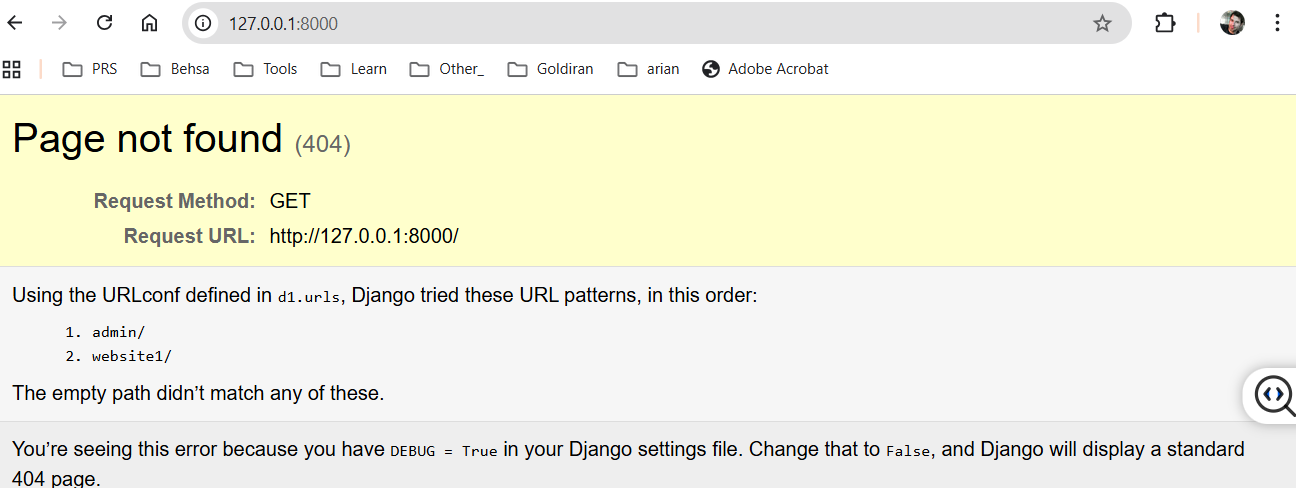
🡪http://127.0.0.1:8000/website1/ show home values

in url project

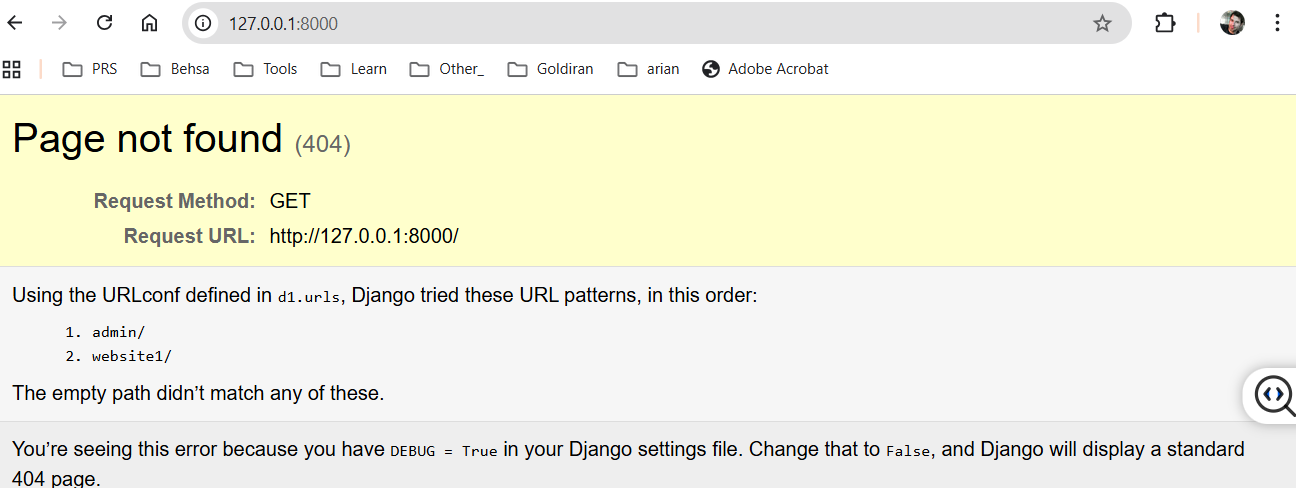
from django.contrib import admin  
from django.urls import path  
from django.urls import include  
  
urlpatterns = [  
 path('admin/', admin.site.urls),  
  
 path('website1/',include('website1.urls')),  
]

runserver

default page



Website page



Add template file

In app

Create templates DIR

Create home,about,contact file html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>about</title>  
</head>  
<body>  
<h1> this is about page </h1>  
<p>every thing my idea</p>  
</body>  
</html>

Urls

from django.urls import path  
from website1.views import \*  
urlpatterns = [  
 #jahantetst1  
 path('home',home),  
 path('about', about),  
 path('contact', contact),  
  
]

in view

from django.shortcuts import render  
# Create your views here.  
from django.http import HttpResponse  
def home(request):  
 return render(request, 'website/index.html')  
def about(request):  
 return render(request, 'website/about.html')  
def contact(request):  
 return render(request, 'website/contact.html')

how to general DIR for all app ?

in base create 'templates' DIR

in settting file add 'DIRS': [BASE\_DIR / 'templates']

TEMPLATES = [  
 {  
 'BACKEND': 'django.template.backends.django.DjangoTemplates',  
 'DIRS': [BASE\_DIR / 'templates']  
 ,  
 'APP\_DIRS': True,  
 'OPTIONS': {  
 'context\_processors': [  
 'django.template.context\_processors.request',  
 'django.contrib.auth.context\_processors.auth',  
 'django.contrib.messages.context\_processors.messages',  
 ],  
 },  
 },  
]