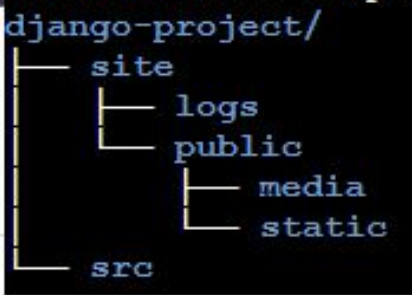
Django

site structure:



django-admin startproject projectname

python manage.py start app

settings.py = add app name to

INSTALLED\_APPS = [

'django.contrib.admin',

'django.contrib.auth',

'django.contrib.contenttypes',

'django.contrib.sessions',

'django.contrib.messages',

'django.contrib.staticfiles',

'projectname',

]

python manage.py runserver

view project on

<http://127.0.0.1:8000/>

create first view by function base view:

from django.http import HttpResponse

def home (request):

return HttpResponse("this is home page")

and set urls :

from django.urls import path

from . import views

urlpatterns = [

path('home' , views.home),

]

use the name for one url

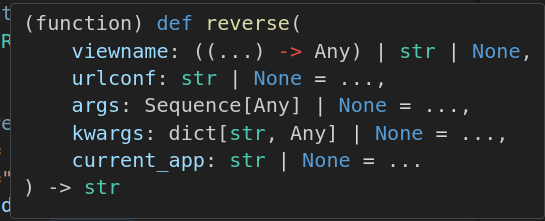
urlpatterns = [

path('home' , views.home , name='home'

),

]

and use reverse function to use url name instead of static url



url\_path = reverse('a',args=[day])

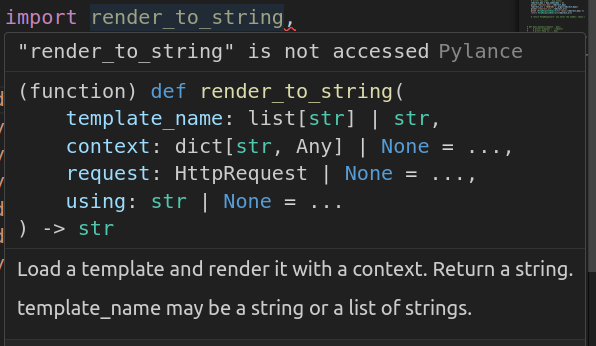
to redirect one url to another url

from django.http import , HttpResponseRedirect

HttpResponseRedirect(redirect\_url)

use render to string for serve one template and context to html

from django.template.loader import render\_to\_string,



use render function for render template and context

from django.shortcuts import render

def days\_dynamic(request, day):

day\_list = list(days.keys())

context = {

'days':day\_list

}

return render(request , 'challenges/index.html' , context)

good to reed :

The Django template language: for Python programmers

https://docs.djangoproject.com/en/5.0/ref/templates/api/

DTL

The Django template language

https://docs.djangoproject.com/en/5.0/ref/templates/language/

It’s designed to feel comfortable to those used to working with HTML.

## Templates

A template is a text file. It can generate any text-based format (HTML, XML, CSV, etc.).

A template contains variables, which get replaced with values when the template is evaluated, and tags, which control the logic of the template.

## Variables

{{ variable }}

## Filters

{{ name | lower }}

## Tags

{% tag %}

{% **for** athlete **in** athlete\_list %}

<**li**>{{ athlete.name }}</**li**>

{% **endfor** %}

{% **if** athlete\_list|length > 1 %}

Team: {% **for** athlete **in** athlete\_list %} ... {% **endfor** %}

{% **else** %}

Athlete: {{ athlete\_list.0.name }}

{% **endif** %}

## Comments

{# #}

## Template inheritance

Inheritance from base.html

{% **extends** "base.html" %}

{% **block** title %}My amazing blog{% **endblock** %}

{% **block** content %}

{% **for** entry **in** blog\_entries %}

<**h2**>{{ entry.title }}</**h2**>

<**p**>{{ entry.body }}</**p**>

{% **endfor** %}

{% **endblock** %}

**url template tag**

{% **url** 'some-url-name' v1 v2 %}

<h1>{%for b in days %}</h1>

<h1><li> <a href="{% url 'a' b %}">{{b}}-- {{b|title}}</a></li></h1>

<h1>{%endfor%}</h1>

extend tag

{% extends "base.html" %}

include tag

{% include "challenge.html"%}

Http404 and HttpResponseNotFound

from django.http import Http404 , HttpResponseNotFound

raise Http404