**Template Fragment Caching in Django 5**

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Template fragment caching is working inside the template

For this fist go into the settings.py:

And do this # Database Caching

CACHES = {

    'default': {

        'BACKEND': 'django.core.cache.backends.db.DatabaseCache',

        'LOCATION': 'student\_cache',

    }

}

# File Based Caching

CACHES = {

    'default': {

        'BACKEND': 'django.core.cache.backends.filebased.FileBasedCache',

        'LOCATION': 'student\_cache',

        # 'LOCATION': 'C:\django5\ch49\student\_cache',

        # 'LOCATION': '/var/tmp/django5/ch49/student\_cache',

    }

}

# Local Memory Caching

CACHES = {

    'default': {

        'BACKEND': 'django.core.cache.backends.locmem.LocMemCache',

        'LOCATION': 'student\_cache',

    }

}

After this if we our cache is database cache

So run

Python manage.py makemigrations

Python manage.py migrate

And for cache table :

Python manage.py createcachetable

And than now we go into the template

Templates/course.html:

{% load cache %}

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Courses</title>

</head>

<body>

  <h1>Course 1</h1>

  <h1>Course 2</h1>

  {% cache 30 mycourse %}

    <h1>Course 3</h1>

    <h1>Course 4</h1>

  {% endcache mycourse %}

</body>

</html>

For clear cache:

from django.shortcuts import render

from django.core.cache import cache

from django.core.cache.utils import make\_template\_fragment\_key

from django.http import HttpResponse

def course(request):

  return render(request, 'student/course.html')

def clear\_cache(request):

    cache.clear()   # deletes ALL cached fragments

    return HttpResponse("All cache cleared successfully!")

def clear\_sidebar\_cache(request):

    key = make\_template\_fragment\_key("sidebar")  # same name you used in {% cache %}

    cache.delete(key)

    return HttpResponse("Sidebar cache cleared successfully!")

urls.py:

from django.urls import path

from student.views import course

from student import views

urlpatterns = [

    path('course/', course, name="course"),

    path('clear-cache/', views.clear\_cache, name='clear\_cache'),

    path('clear-sidebar/', views.clear\_sidebar\_cache, name='clear\_sidebar'),

]