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**Code file : ch68**

**Context Processors Build Cart Items in Django 5**

That is use for variable that are common in all the templates like we can pass cart\_item we need that cart\_items in all the pages may be its home may be its content or may be its product section so we need that in all.

## Context Processors (Build Cart Items) in Django 5

* A **Context Processor** in Django is a **Python function** that takes a request object as input and returns a **dictionary of data**.
* That data is then **available in all templates** without passing it explicitly from every view.

### ✅ Why use it for Cart Items?

* In an e-commerce app, you usually want to **show cart items count or total price** in the navbar (or any page).
* Instead of adding cart info in every view, you use a **context processor** to make cart data available globally.
* It may also be use for alert system in our website or offer
* Also use for annousements

### 🔑 Key Points:

1. Context processors are placed in a file (commonly context\_processors.py).
2. They must return a dictionary.
3. You register them in **settings.py** under:
4. TEMPLATES → OPTIONS → 'context\_processors'
5. Once added, their variables are accessible in **all templates**.

👉 Example for notes:

**context\_processors.py**

from .models import Cart

def cart\_items(request):

    # Example: Get cart items count for logged-in user

    cart\_count = 0

    if request.user.is\_authenticated:

        cart\_count = Cart.objects.filter(user=request.user).count()

    return {'cart\_count': cart\_count}

**settings.py**

TEMPLATES = [

    {

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

        'DIRS': [],

        'APP\_DIRS': True,

        'OPTIONS': {

            'context\_processors': [

                'django.template.context\_processors.request',

                'django.contrib.auth.context\_processors.auth',

                # custom processor

                'myapp.context\_processors.cart\_items',

            ],

        },

    },

]

**template.html**

<nav>

  <a href="/cart/">Cart ({{ cart\_count }})</a>

</nav>

⚡ **Summary for Notes:**  
Context Processors in Django are used to inject data into all templates automatically. They are very useful for global data like **cart items, notifications, or user info**. For a cart system, a context processor can return the **cart count or total** so it appears in every page (like the navbar).

Self notes and doc :

For this first of all we create context\_processors.py of we need common variable in all the pages than

context\_processors.py:

def total\_cart\_item(request):

    cart\_items = 3

    return {

        'cart\_items':cart\_items

    }

and than go into the settings.py for register context\_proessors.py

settings.py:

TEMPLATES = [

    {

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

        'DIRS': [],

        'APP\_DIRS': True,

        'OPTIONS': {

            'context\_processors': [

                'django.template.context\_processors.request',

                'django.contrib.auth.context\_processors.auth',

                'django.contrib.messages.context\_processors.messages',

                'myapp.context\_processors.total\_cart\_item',  # here we register our context\_processors

            ],

        },

    },

]

After doing this the card item can be avaible in all the templates that we can use it