

Let's Understand

Context Processors

In Django
Templates



#pythonworld

Before understand content processor, first let's understand, what is context in django

Context is basically a dictionary, that is used to pass data from backend to frontend (django templates).



```
views.py
```

```
def index(request):
    return render(
        request,
        "index.html",
        {"datetime": datetime.now()})
```

context in django

Context processors are functions that receive the current HttpRequest as an argument and return a dict of data to be added to the rendering context.

The main use is to add common data shared by all templates to the context without repeating code in every view.

Understand by an example :

Suppose, i have three template files

home.html, about.html and contact.html file

and i want show the current date time in
each templates file.

The first approach is that i will pass the
date time to each template view function
and use in each file.

But in this approach, the code is repeated,
i am passing same date time code in each
view function



views.py

```
def index(request):
    return render(
        request,
        "home.html",
        {"datetime": datetime.now()})

def about(request):
    return render(
        request,
        "about.html",
        {"datetime": datetime.now()})

def contact(request):
    return render(
        request,
        "contact.html",
        {"datetime": datetime.now()})
```



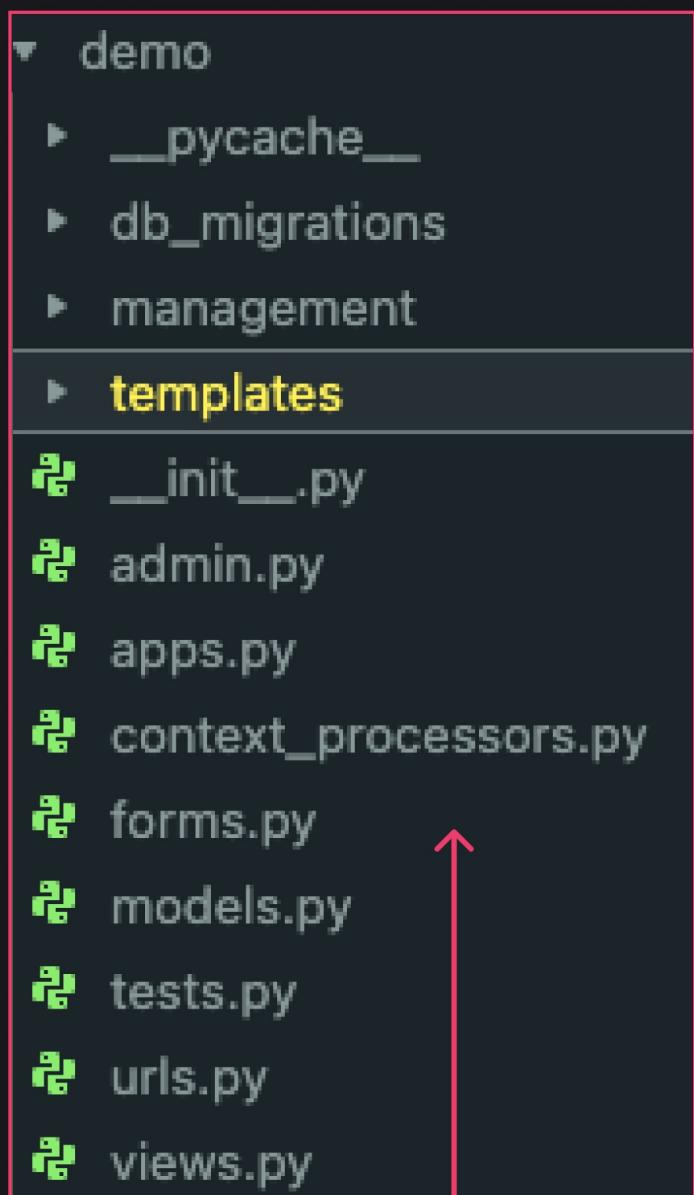
see there is repeated code in each view

function. here we can use the context

processor to share the common data to all templates without repeating the code.

Create Context Processors

To create context processors, you just need to create context_processors.py file in your app directory.



create file inside app directory.



Open the file and write common context for all templates



context_processors.py

```
from datetime import datetime

def get_datetime(request):
    context = {"datetime": datetime.now()}
    return context
```



create a function that will take a request as an arguments, and simply return the context

Register Context Processors

Open settings.py file and register your custom context processors under TEMPLATES.



settings.py

```
TEMPLATES = [
    {
        "BACKEND": "django.template.backends.django.DjangoTemplates",
        "DIRS": [],
        "APP_DIRS": True,
        "OPTIONS": {
            "context_processors": [
                "django.template.context_processors.debug",
                "django.template.context_processors.request",
                "django.contrib.auth.context_processors.auth",
                "django.contrib.messages.context_processors.messages",
                "demo.context_processors.get_datetime",
            ],
        },
    },
]
```



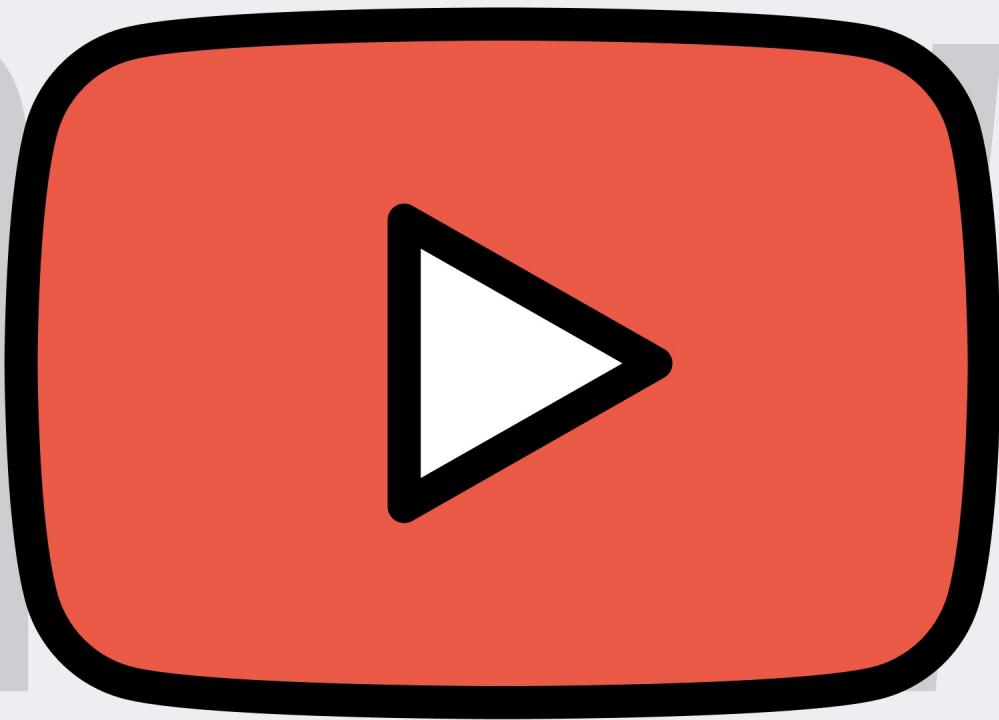
you can register here

Now we can `{{datetime}}` in any templates file

```
<body>
    {{datetime}}
</body>
```

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