Django

M - Model

V-View

T-Template

View

- Function Based View
- Class Based View

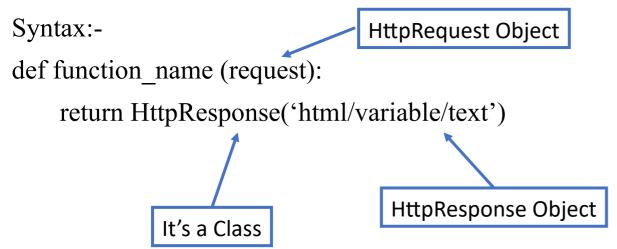
A function based view, is a Python function that takes a Web request and returns a Web response.

This response can be the HTML contents of a Web page, or a redirect, or a 404 error, or an XML document, or an image or anything.

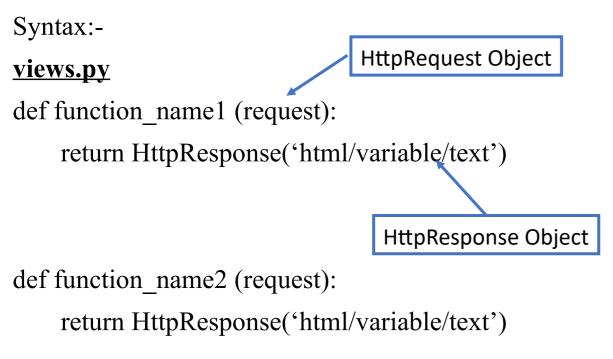
Each view function takes an HttpRequest object as its first parameter.

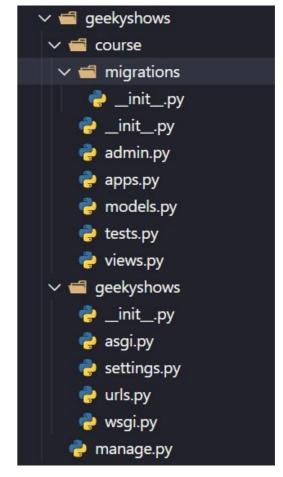
The view returns an HttpResponse object that contains the generated response. Each view function is responsible for returning an HttpResponse object.

We will call these functions as view function or view function of application or view.



We use **views.py** file of the application to write functions which may contain business logic of application, later it required to define url name for this function in the **urls.py** file of the project.





Syntax:
def function_name (request):

return HttpResponse('html/variable/text')

HttpResponse Object

Where HttpResponse is class which is in django.http module so we have to import it before using HttpResponse.

views.py

```
from django.http import HttpResponse

def learn_django(request):
    return HttpResponse('Hello Django')

def learn_python(request):
    return HttpResponse('<h1>Hello Python</h1>')
```

```
def learn_var(request):
    a = '<h1>Hello Variable</h1>'
    return HttpResponse(a)

def learn_math(request):
    a = 10 + 10
    return HttpResponse(a)
```

Single Application with Single view function views.py

```
from django.http import HttpResponse def learn_django(request):
    return HttpResponse('Hello Django')
```

urls.py

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path('learndj/', views.learn_django),
]
```



Single Application with multiple view functions.

```
views.py
from django.http import HttpResponse
def learn django(request):
    return HttpResponse('Hello Django')
def learn python(request):
    return HttpResponse('<h1>Hello Python</h1>')
urls.py
urlpatterns = \int
    path('learndj/', views.learn django),
    path('learnpy/', views.learn python),
```

```
✓ ■ geekyshows

✓ 

    migrations

     __init__.py
    🥐 __init__.py
    鹬 admin.py
    apps.py
    models.py
    tests.py
    views.py
🦆 __init__.py
    🥐 asgi.py
    🥏 settings.py
    🥐 urls.py
    鹬 wsgi.py
   📄 manage.py
```

Geeky Steps

- Create Django Project: django-admin startproject geekyshows
- Change Directory to Django Project: cd geekyshows
- Create Django Application: *python manage.py startapp course*
- Add/Install Application to Django Project (course to geekyshows) using settings.py file INSTALLED_APPS = ['django.contrib.admin', 'course',]
- Write View Function inside **views.py** file
 - Open views.py
 - Import HttpResponse class from django.http module from django.http import HttpResponse
 - Write view Function

```
def learn_django(request):
    return HttpResponse('Hello Django')
```

• Save views.py

