

## About Django Views:

- A view is a python function or python class which takes HttpRequest as input and gives HttpResponse as output.

```

      takes              gives
request ----->> View ----->> response

```

## Generally Django supports two types of views

1. Function Based Views
2. Class Based Views

- Function Based Views are created by "**def**" keyword
- Class Based Views are created by "**class**" keyword
- Generally views we can write inside views.py

For example, **views.py**

```
def Function_Based_View_Name(request):
    pass
```

```
class Class_Based_View_Name(predefined_view_name):
    pass
```

## urls.py

- Generally urls of our application we can write inside urls.py.
- These urls can execute requested views and returns output.

## Syntax:

```
path('url_name', viewName , aliace_name)
```

## Examples:

path('fbv', views.Function\_Based\_View\_Name) ----->> **Function based views calling**  
 path('cbv', views.Class\_Based\_View\_Name.as\_view()) ----->> **Class based views calling**

- Views Interacting with other files
- A view is responsible to write the business logics
- We use **def** or **class** keyword to define django views.
- A view will interact with models.py file to manage the database.
- A view will interact with templates to manage presentation part.
- A view will also interact with urls.py file to give the mappings between urls and views.
- A view will interact with another view for exchanging the information.

**A view supports different default functions.**

**1. HttpResponseRedirect():**

- It is used to send the response from views to browser directly.
- Syntax: `return HttpResponseRedirect(response)`

**2.render():**

- It is used to transfer the request from views to templates.
- Syntax : `return render(request , 'template_name',context)`

**3.redirect():**

- It is used to transfer the request from one view to another view.
- It is also used to change the url in the browser.
- Syntax 1: `return reditect(viewname)`
- Syntax 2: `return reditect('url')`

**Create a project by using multiple views :**

**Step1:** Create a folder with name 'multipleviewsfolder'

**Step2:** Open multipleviewsfolder and type cmd to open command prompt with current location

**E:\multipleviewsfolder>**

**Step3:** Create a project with name 'demoProject'.

**E:\multipleviewsfolder> django-admin startproject demoProject**

**Step4:** Change the path into demoProject and create an application with name 'institute'

**E:\multipleviewsfolder> cd demoProject**

**E:\multipleviewsfolder\demoProject>python manage.py startapp institute**

**Step5: Open multipleviewsfolder in pycharm.**

**Step6: Open `views.py` and write the following code,**

```
from django.shortcuts import render
from django.http import HttpResponseRedirect
def home(request):
    h = 'Welcome to Django'
    return HttpResponseRedirect(h)
```

```
def contact(request):
    c = 'PLease goto main office to meet Admins'
```

```
return HttpResponse(c)
```

```
def services(request):  
    s = 'We provide all skills'  
    return HttpResponse(s)
```

```
def feedback(request):  
    f = 'We have good feedback'  
    return HttpResponse(f)
```

**Step7:** Goto `urls.py` file and write the following code,

```
from django.urls import path  
from django.contrib import admin  
from institute import views  
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path("", views.home),  
    path('contact/', views.contact),  
    path('services/', views.services),  
    path('feedback/', views.feedback),  
]
```

**Step8:** Goto command prompt and run the server by using runserver command.

E:\multipleviewsfolder\demoProject> python manage.py runserver

**Step9:** Copy the url and send the request from the browser to get responses