Step-1: Create project

Step-2: Create application

Step-3: Add app in settings.py

Step-4: Function in views.py

Step-5: url for function

Step-6: Start server send request

Http Request flow in Django Application:-

-->Whenever end user sending the request (http://127.0.0.1:8000/greet/) first django development server will get that request.

-->From the request Django will identify url-pattern and by using urls.py, the corresponding view will be identified.

-->The request will be forwarded to the view. The corresponding function will be executed and provide required response to the end user.

Q. Write django application to send request to display server time as response.

Step-1: Create project

      D:\Django_20MAR_7PM>django-admin startproject secondproject

Step-2: Create application

      D:\Django_20MAR_7PM\secondproject>py manage.py startapp firstapp

Step-3: Add app in settings.py

INSTALLED_APPS = [

    'firstapp'

]

Step-4: Function in views.py

import datetime   #It is a module to work with time & date in python.

```python
from django.http import  HttpResponse
def timeinfo(request):
    date = datetime.datetime.now()
    msg = '<h1>Hello Frien Good Evening!!!!!!</h1><hr>'
    msg += '<h2>Now the server time is:'+str(date)+'</h2>'
    return HttpResponse(msg)
```

Step-5: url for function

```
        path('time/', views.time_info),
```

Step-6: Start server send request

```
        http://127.0.0.1:8000/time/
```

Q. Single application with multiple views.

D:\Django_20MAR_7PM>django-admin startproject sunnyjobsproject

D:\Django_20MAR_7PM>cd sunnyjobsproject

D:\Django_20MAR_7PM\sunnyjobsproject>py manage.py startapp jobsapp

-->Add app in settings.py

- **views.py**

```python
from django.http import HttpResponse
def hyd_jobs_view(request):
    s = '<h1>Hyderabad Jobs Information</h1>'
    return HttpResponse(s)
def bng_jobs_view(request):
    s = '<h1>Bangalore Jobs Information</h1>'
    return HttpResponse(s)
def pune_jobs_view(request):
    s = '<h1>Pune Jobs Information</h1>'
```

```python
    return HttpResponse(s)
def bihar_jobs_view(request):
    s = '<h1>Bihar Jobs Information</h1>'
    return HttpResponse(s)
```

- **urls.py**

```python
path('hyd/', views.hyd_jobs_view),
path('pune/', views.pune_jobs_view),
path('bng/', views.bng_jobs_view),
path('bihar/', views.bihar_jobs_view),
```

Start server send request:

> http://127.0.0.1:8000/hyd/
>
> http://127.0.0.1:8000/pune/
>
> http://127.0.0.1:8000/bng/
>
> http://127.0.0.1:8000/bihar/

Q. Based on time good mng, good aft, good evening & good night.

```python
def time_info(request):
    date = datetime.datetime.now()
    msg = '<h1>Hello Friend Very'
    h = int(date.strftime('%H'))
    if h < 12:
        msg += ' Good Morning'
    elif h < 16:
        msg += ' Good Afternoon'
```

```python
    elif h < 21:
        msg += ' Good Evening'
    else:
        msg += ' Good Night'
    msg += '</h1><hr>'
    msg += '<h1>Now server time is:'+str(date)+'</h1>'
    return HttpResponse(msg)
```

Ex:

```python
n = 6
while n>0:
        print(n)
        n -= 2 if n%3==0 else 1
```