

# Django

## Daily Work

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New Project create చేయాలంటే Open

Step-1 : Press windows + R – CMD

C:\Users\LENOVO X1CORBON> **python**

**Close cmd**

C:\Users\LENOVO X1CORBON> **pip install virtualenv**

**Close cmd**

C:\Users\LENOVO X1CORBON> **virtualenv env**

**Env foldername**

C:\Users\LENOVO X1CORBON>**cd env**

C:\Users\LENOVO X1CORBON\env>**cd scripts**

C:\Users\LENOVO X1CORBON\env\Scripts>**activate**

(env) C:\Users\LENOVO X1CORBON\env\Scripts>**cd..**

(env) C:\Users\LENOVO X1CORBON\env>**cd core**

(env) C:\Users\LENOVO X1CORBON\env> **pip install django 5.0.3**

(env) C:\Users\LENOVO X1CORBON\env>**django-admin startproject core**

**Core is a project name env folder లో ఉంటుంది**

(env) C:\Users\LENOVO X1CORBON\env> **python manage.py startapp home**

**Home app లో మనం Website design చేస్తాం**

**Example కి ఇంకొక app create చేద్దాం**

(env) C:\Users\LENOVO X1CORBON\env> **python manage.py startapp accounts**

(env) C:\Users\LENOVO X1CORBON\env>**python manage.py runserver**

**మనకి ఒక link వస్తుంది దాన్ని copy చేసుకొని website లో చేయాలి**

## Changes in files

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### Open settings.py(core)

Under **INSTALLED\_APPS**= [ ]

```
EXTERNAL_APPS = [  
    'accounts',  
    'home',  
]
```

**INSTALLED\_APPS += EXTERNAL\_APPS**

**Line 1**

**Import os**

**Line 125**

```
STATIC_URL = 'static/'
```

```
MEDIA_URL = '/images/'
```

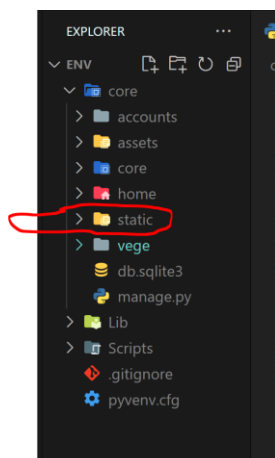
```
STATICFILES_DIRS = [  
    os.path.join(BASE_DIR, 'static')  
]
```

```
MEDIA_ROOT = os.path.join(BASE_DIR, 'static/images')
```

```
STATIC_ROOT = os.path.join(BASE_DIR, 'staticfiles')
```

```
STATIC_ROOT = os.path.join(BASE_DIR, 'assets')
```

**Right click on core select create folder – static**



## Open CMD

**Cntrl + C**

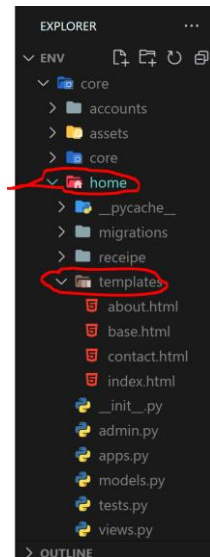
(env) C:\Users\LENOVO X1CORBON\env>**python manage.py collectstatic**

(env) C:\Users\LENOVO X1CORBON\env>**python manage.py migrate**

(env) C:\Users\LENOVO X1CORBON\env>**python manage.py runserver**

## Lets Design Website using home app we created

**Right click on home select create folder – templates**



మనం multiple html files ని create చేస్తాం వాటి అన్నిటికీ <head> same ఉంటుంది మళ్ళీ మళ్ళీ use చేయకుండా మనం ఒక base.html file ని create చేసి దాని <body> లో red color code ని paste చేస్తాం

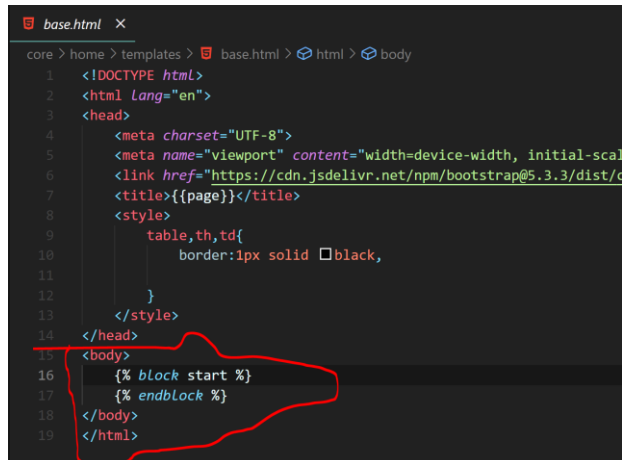
<body>

**{% block start %}**

**{% endblock %}**

</body>

See below Image for better understanding



```
base.html x
core > home > templates > base.html > html > body
1 <!DOCTYPE html>
2 <html Lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scal
6   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/c
7   <title>{{page}}</title>
8   <style>
9     table,th,td{
10       border:1px solid black,
11     }
12   </style>
13 </head>
14 <body>
15   {% block start %}
16   {% endblock %}
17 </body>
18 </html>
```

Remaining Html files ಓ like about.html,contact.html, etc ಓ red color code ನಿ paste చేస్తಾಂ

{% extends 'base.html' %}

{% block start %}

{% endblock %}

See below Image for better understanding

```
{% extends 'base.html' %}
{% block start %}
  <h1>This is Contact Page</h1>
  ||<a href="/">Home</a>||
  ||<a href="/abt/">About </a>||
{% endblock %}
```

### Open views.py(home)

```
from django.shortcuts import render
from django.http import HttpResponseRedirect
def cnt(request):
    context = {'page': 'Contact'}
    return render(request, 'contact.html', context)
```

ఇది ఎందుకంటే website contact.html లో మనం ఏదైనా click events చేస్తే దాని functions ఇందులో రాస్తాం

### Open urls.py(core)

```
from home.views import *
urlpatterns = [
    path('', cnt, name='cnt'),
]
```

Here home. అంటే home app name

Here cnt అంటే మనం views.py లో create చేసిన function name

Note: Views లో ఏ function create చేసిన urls.py లో కి వచ్చి path ఇవ్వాలి

This is all about link among Html, views & urls.

## CREATE DATABASE (DB)

Open models.py(home)

Create a table

```
class student(models.Model):  
    name = models.CharField(max_length=100)  
    age = models.IntegerField()  
    email = models.EmailField()  
    address = models.TextField()  
  
    def __str__(self) -> str:  
  
        return self.name
```

ఈ name,age,email address అనేవి table column names automating  
గా student (class name) అనే table database app లో create  
అవుతుంది

Open CMD

Cntrl + C

(env) C:\Users\LENOVO X1CORBON\env>python manage.py makemigrations

(env) C:\Users\LENOVO X1CORBON\env>python manage.py migrate

(env) C:\Users\LENOVO X1CORBON\env>python manage.py runserver

Note : models.py లో ఏ చిన్న changes చేసిన ఈ 3 steps cmd లో  
compulsory చేయాలి

# Enter Data in Database

## Open CMD

### Cntrl + C

```
(env) C:\Users\LENOVO X1CORBON\env>python manage.py shell
```

```
>>> from home.models import *
```

Home app name

```
>>> student.objects.create(name="Tom",age="23",email="tom@gmail.com",address="USA")
```

Student classname we created in models.py

```
>>><student:student object(1)>
```

### To see all data in student table

```
>>> student.objects.all()
```

```
>>><Queryset [<student:student object(1)>]>
```

### To see data in student table with id

```
>>> student.objects.get(id = 1)
```

```
>>><Queryset [<student:student object(1)>]>
```

### To Update data in student table with id

```
>>> student.objects.filter(id = 1).update(name="John")
```

1

### To Delete data in student table with id

```
>>> student.objects.get(id = 1).delete()
```

**Close cheyali ante**

**>>>exit()**