

## Django First Project and Fist App

Microsoft Windows [Version 10.0.19042.1645]

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D:\Django Github\DjangoProjects\Django02 FistApp>python -m venv env

D:\Django Github\DjangoProjects\Django02 FistApp>cd env

D:\Django Github\DjangoProjects\Django02 FistApp\env>cd Scripts

D:\Django Github\DjangoProjects\Django02 FistApp\env\Scripts>activate

(env) D:\Django Github\DjangoProjects\Django02 FistApp\env\Scripts>pip  
install django

Collecting django

Using cached Django-4.0.4-py3-none-any.whl (8.0 MB)

Collecting sqlparse>=0.2.2

Using cached sqlparse-0.4.2-py3-none-any.whl (42 kB)

Collecting tzdata

Using cached tzdata-2022.1-py2.py3-none-any.whl (339 kB)

Collecting asgiref<4,>=3.4.1

Using cached asgiref-3.5.0-py3-none-any.whl (22 kB)

Installing collected packages: tzdata, sqlparse, asgiref, django

Successfully installed asgiref-3.5.0 django-4.0.4 sqlparse-0.4.2 tzdata-2022.1

(env) D:\Django Github\DjangoProjects\Django02 FistApp\env\Scripts>django-  
admin startproject ProjectOne

```
(env) D:\Django Github\DjangoProjects\Django02 FistApp\env\Scripts>cd  
ProjectOne
```

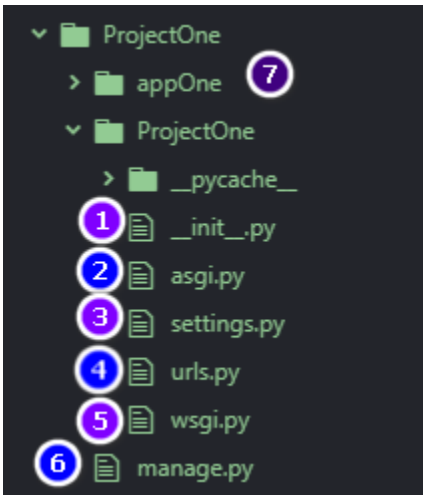
```
(env) D:\Django Github\DjangoProjects\Django02  
FistApp\env\Scripts\ProjectOne>dir  
Volume in drive D is Saif  
Volume Serial Number is 5CC3-BFCE
```

```
Directory of D:\Django Github\DjangoProjects\Django02  
FistApp\env\Scripts\ProjectOne
```

```
04/24/2022 07:59 PM <DIR>      .  
04/24/2022 07:59 PM <DIR>      ..  
04/24/2022 07:59 PM          688 manage.py  
04/24/2022 07:59 PM <DIR>      ProjectOne  
          1 File(s)          688 bytes  
          3 Dir(s) 211,342,950,400 bytes free
```

```
(env) D:\Django Github\DjangoProjects\Django02  
FistApp\env\Scripts\ProjectOne>python manage.py startapp appOne
```

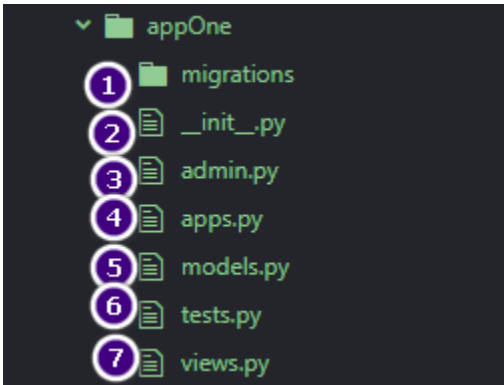
## Files present in the project



\_\_init\_\_.py,  
asgi.py,  
settings.py,  
urls.py,  
wsgi.py  
manage.py

__init__.py --> this is for python it can be treated as a package
asgi.py --> ASGI stands for Asynchronous Server Gateway Interface. It extends the capabilities of WSGI (Web Server Gateway Interface) which is a standard way of communication between the web server and the web applications in most of the python web frameworks like Django
settings.py --> this has settings for your project
urls.py --> this has the links to you project as well as function to call
wsgi.py --> this is needed if you want to perform a deployment of your project via WSGI
manage.py --> this is command line utility for executing django commands

## Files present in the app



### migrations folder

migrations folder is related to database where it stores models' data like adding a field, deleting a model etc.

migrations can be done using commands

`__init__.py` --> this is for python it can be treated as a package

`admin.py` --> this helps to make the app modifiable in admin interface

`app.py` --> this is a configuration file common to all django apps

`models.py` --> this will store all the models in the application

`tests.py` --> this has unit tests

`views.py` --> this is where the application view is stored

## MVT

Model View Template is a design pattern

Model provides a data access layer

It is an Interface to between models data and database data

Template is a presentation layer

It handles the User Interface

View is used to execute the business logic

## views.py

```
from django.shortcuts import render
```

```
# Create your views here.
```

```
from django.http import HttpResponse  
import time
```

```
def d1(request):  
    return HttpResponse("<h2>Welcome to Django</h2>")
```

```
def d2(request):  
    t1 = time.ctime()  
    return HttpResponse(t1)
```

```
def d3(request):  
    msg = "Hello Django"  
    return HttpResponse(msg)
```

urls.py

```
from django.contrib import admin
from django.urls import path
from appOne import views
```

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path('d1/', views.d1),
    path('d2/', views.d2),
    path('d3/', views.d3)
]
```