Create new Django project

1. Create new folder on machine
2. Open command prompt and go to newly created directory

cd C:\Users\<user-name>\Desktop\Learning\New

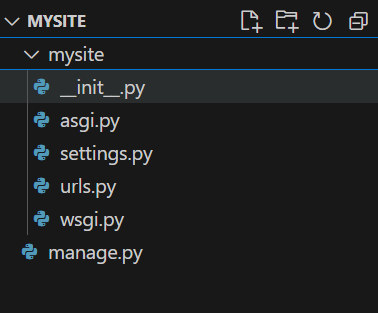
1. Create a django project using below command

django-admin startproject mysite

where,

‘mysite’ is a project name.

1. Open ‘mysite’ project in VS code.



manage.py file perform all administrative task

\_\_init\_\_.py represents it is python package

settings.py file contain all project settings like apps, database etc

urls.py file contains all input urlpatterns

Running django site on development server.

1. Go to project directory

cd C:\Users\<user-name>\Desktop\Learning\New\mysite

1. Run the below command

python manage.py runserver

click <http://localhost-ip:8000/>

Creating app in django:-

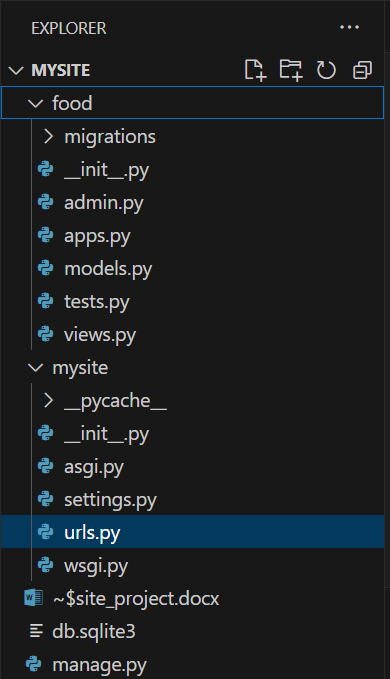
1. Go to project directory

cd C:\Users\<user-name>\Desktop\Learning\New\mysite

1. Create new app with below command

python manage.py startapp food

1. Check in VS code



Creating view:-

from django.shortcuts import render

from django.http import HttpResponse

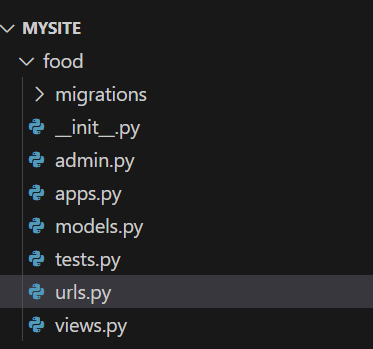
# Create your views here.

def index(request):

    return HttpResponse("Hello World")

Link view with <url:->

1. Create urls.py file in food app



1. Link view in url
2. from django.urls import path
3. from . import views
4. urlpatterns = [
5. path('', views.index, name='index'),
6. ]

Include app urls.py to project urls.py

from django.urls import include, path

urlpatterns = [

    path('admin/', admin.site.urls),

    path('food/', include('food.urls')),

]

Run the url as <http://localhost:8000/food>

Hello World view will display

Add another view

def item(request):

    return HttpResponse("This is new Item")

link view to app url

 path('item/', views.item, name='item'),

run :- http:localhost:8000/food/item

**Models:-**

* Blue print to create database table.
* Models are class
* Written in models.py file

Run the below command to migration or create predefined tables in database

python manage.py migrate

this command checks the INSTALLED\_APPS In settigs.py file and create necessary table in DB.

write model:-

(in models.py file)

class Item(models.Model):

    item\_name = models.CharField(max\_length=200)

    item\_desc = models.CharField(max\_length=200)

    item\_price = models.IntegerField()

Add your app in your django project:-

* Go to settings.py file and see INSTALLED\_APPS field
* Add your app name in INSTALLED\_APPS

Format:-

appname.apps.classname

where,

appname = your actual app name

apps represent apps.py file in your app

classname is class name present in apps.py file your app

updated INSTALLED\_APPS:-

INSTALLED\_APPS = [

    'food.apps.FoodConfig',

    'django.contrib.admin',

    'django.contrib.auth',

    'django.contrib.contenttypes',

    'django.contrib.sessions',

    'django.contrib.messages',

    'django.contrib.staticfiles',

]

Create model in django

python manage.py makemigrations appname

e.g. python manage.py makemigrations food

create models for food app

Create DB table:-

python manage.py sqlmigrate food 0001 (optional)

python manage.py migrate