# Steps followed during this project

pip install django

-> If in the below commands 'python' does not work use 'py' instead

1.To start a new project

python -m django startproject Project\_name

or

django-admin startproject Project\_name

2.Change directory to project folder created above

cd Project\_name

3.For database(sqllite 3)

python manage.py migrate

4.To commit changes to database

python manage.py makemigrations

5.To run server

python manage.py runserver

python manage.py runserver portnumber -> 8001 is a portnumber

-> In 8000 portnumber last 2 digits can be changed according to us to make it unique

6.Module Creation

python manage.py startapp module\_name

7.Three folders created inside project file

1.templates-html file

2.static-css files

3.media-background images

8.create file index.html under templates with

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<h3>Welcome to our world!!! Course BCA BCom BTech MTech</h3>

</body>

</html>

9.settings.py in Restaurant(project)

import os -> do it in line 12

DEBUG = True -> in line 26 make it False according to security warning in line 25 at the time said

ALLOWED\_HOSTS = ["\*"] -> do it ie add "\*" in line 28

INSTALLED\_APPS = [

'django.contrib.admin',

'django.contrib.auth',

'django.contrib.contenttypes',

'django.contrib.sessions',

'django.contrib.messages',

'django.contrib.staticfiles',

'general', -> do it in line 40 i.e add “'general',”

]

-> do it in settings.py from line 121

STATICFILES\_DIRS=[os.path.join(BASE\_DIR,'static'),]

MEDIA\_ROOT=os.path.join(BASE\_DIR,'media')

MEDIA\_URL='/media/'

-> till line 127

10.urls.py in Restaurant (project)

from django.urls import path,include ->do it ie add “,include” in line 18

-> do it from line 19

from django.conf.urls.static import static

from django.conf import settings

-> till line 22

urlpatterns = [

path('admin/', admin.site.urls),

-> do it from line 25

path('gen/',include('general.urls'))

]+ static(settings.STATIC\_URL,document\_root=settings.STATIC\_ROOT)

if settings.DEBUG:

urlpatterns += static(settings.STATIC\_URL,document\_root=settings.STATIC\_ROOT)

urlpatterns += static(settings.MEDIA\_URL,document\_root=settings.MEDIA\_ROOT)

-> do it till line 32

11.urls.py in general(app)

-> create this file in general manually

-> Do it from line 3

from django.contrib import admin

from django.urls import path

from django.conf.urls.static import static

from django.conf import settings

from general.views import HomePageView

urlpatterns = [

path('home/', HomePageView.as\_view(),name='index\_page')

]+ static(settings.STATIC\_URL,document\_root=settings.STATIC\_ROOT)

if settings.DEBUG:

urlpatterns += static(settings.STATIC\_URL,document\_root=settings.STATIC\_ROOT)

urlpatterns += static(settings.MEDIA\_URL,document\_root=settings.MEDIA\_ROOT)

-> Till line 18

12.views.py in general

from django.shortcuts import render

-> Do it from line 3

from django.views.generic import TemplateView,CreateView

from general.models import FeedbackModel

from general.forms import FeedbackForm

-> Create your views here.

class CreateFeedbackView(CreateView):

template\_name='create\_feedback.html'

model=FeedbackModel

form\_class=FeedbackForm

success\_url='/gen/home'

class HomePageView(TemplateView):

template\_name='index.html'

-> Till line 10

-> Do it from line 3

from django.views.generic import TemplateView

-> Create your views here.

class HomePageView(TemplateView):

template\_name='index.html'

-> Till line 10

13.When running server as in step 5 after the command is typed in terminal and the web is opened to remove display error type in “/gen/home “ along with the existing url

So the URL becomes http://127.0.0.1:8000/gen/home/

14.Html file 'create\_feedback.html' in templates folder with following contents

<html>

<head>

<title>Contact us</title>

</head>

<body>

<form method="post">

{% csrf\_token %}

{{form.as\_p}}

<button>SUBMIT FEEDBACK</button>

</form>

 </body>

</html>

15.in general in admin.py

from general.models import FeedbackModel -> line 3

-> Register your models here.

admin.site.register(FeedbackModel) -> line 7

16.in general create a forms.py manually with following contents

from django import forms

from general.models import FeedbackModel

class FeedbackForm(forms.ModelForm):

class Meta:

model = FeedbackModel

field = ['name','email','contact','message','place']

17.in general in models.py

class FeedbackModel(models.Model): -> line 5

name = models.CharField(max\_length=25)

email = models.EmailField()

contact = models.CharField(max\_length=30)

message = models.TextField(max\_length=500)

place = models.CharField(max\_length=50,null=True,blank=True)

def \_\_str\_\_(self) -> str:

return self.name

18.modify urls.py in general

-> create this file in general manually

-> Do the following in it

from django.contrib import admin

from django.urls import path

from django.conf.urls.static import static

from django.conf import settings

from general.views import HomePageView,CreateFeedbackView

urlpatterns = [

path('home/', HomePageView.as\_view(),name='index\_page'),

path('feedback/', CreateFeedbackView.as\_view(),name='feedback\_page')

]+ static(settings.STATIC\_URL,document\_root=settings.STATIC\_ROOT)

if settings.DEBUG:

urlpatterns += static(settings.STATIC\_URL,document\_root=settings.STATIC\_ROOT)

urlpatterns += static(settings.MEDIA\_URL,document\_root=settings.MEDIA\_ROOT)

-> Till here

19.in terminal

PS \*:\\*\*\*\......\\*\*\*\*\Python-Django\Restaurant> python manage.py createsuperuser

Username (leave blank to use '\*\*\*'): \*\*\*

Email address: \*\*\*@gmail.com

Password: \*\*\*\*\*\*\*

Password (again): \*\*\*\*\*\*\*

Bypass password validation and create user anyway? [y/N]: y

Superuser created successfully.

20.create demo.html file in templates with following contents

-> done to change pages using django as well as to learn difference between changing pages using html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Demo</title>

</head>

<body>

<a href=" \*:\\*\*\*\......\\*\*\*\*\\*\*\*\*\Python-Django\Restaurant\templates\index.html">Login</a> ->when we need to move through pages using html

<a href="{% url 'index\_page' %}">Home</a> ->when we need to move through pages using django

-> the name 'index\_page' is found in general in urls.py

<a href=" \*:\\*\*\*\.....\\*\*\*\*\\*\*\*\*\Python-Django\Restaurant\templates\index.html">Feedback</a>

</body>

</html>

So it becomes

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Demo</title>

</head>

<body>

<a href="{% url 'login\_page' %}">Login</a>

<a href="{% url 'index\_page' %}">Home</a>

<a href="{% url 'feedback\_page' %}">Feedback</a>

</body>

</html>

21.modify views.py in general as

from django.shortcuts import render

-> Do it from line 3

from django.views.generic import TemplateView,CreateView

from general.models import FeedbackModel

from general.forms import FeedbackForm

from general.models import LoginModel

from general.forms import LoginForm

-> Create your views here.

class CreateFeedbackView(CreateView):

template\_name='create\_feedback.html'

model=FeedbackModel

form\_class=FeedbackForm

success\_url='/gen/home'

class CreateLoginView(CreateView):

template\_name='login.html'

model=LoginModel

form\_class=LoginForm

success\_url='/gen/home'

class HomePageView(TemplateView):

template\_name='index.html'

class DemoPageView(TemplateView):

template\_name='demo.html'

-> Till here line 10

22.modify urls.py in general as

-> create this file in general manually

-> Do it

from django.contrib import admin

from django.urls import path

from django.conf.urls.static import static

from django.conf import settings

from general.views import HomePageView,CreateFeedbackView,CreateLoginView,DemoPageView

urlpatterns = [

path('home/', HomePageView.as\_view(),name='index\_page'),

path('feedback/', CreateFeedbackView.as\_view(),name='feedback\_page'),

path('login/', CreateLoginView.as\_view(),name='login\_page'),

path('demo/', DemoPageView.as\_view(),name='demo\_page')

]+ static(settings.STATIC\_URL,document\_root=settings.STATIC\_ROOT)

if settings.DEBUG:

urlpatterns += static(settings.STATIC\_URL,document\_root=settings.STATIC\_ROOT)

urlpatterns += static(settings.MEDIA\_URL,document\_root=settings.MEDIA\_ROOT)

-> Till here

23.create css files under static folder with names of the html files created Eg for: demo.html create demo.css and modify demo.css in templates with the lines

{% load static %}

<link rel="stylesheet" href="{% static 'myfirst.css' %}">

Eg:demo.css in static folder

/\* Global styles \*/

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: ->f0f0f0;

text-align: center;

/\* Center align all content \*/

}

/\* Styles for the heading \*/

h3 {

margin-top: 50px;

/\* Add space from the top \*/

}

/\* Styles for links \*/

a {

display: inline-block;

padding: 10px 20px;

margin: 10px;

text-decoration: none;

color: ->333;

background-color: ->f9f9f9;

border: 1px solid ->ccc;

border-radius: 5px;

transition: background-color 0.3s, color 0.3s;

}

/\* Styles for links on hover \*/

a:hover {

background-color: ->e0e0e0;

color: ->000;

}

modify demo.html in templates folder

<!DOCTYPE html>

<html lang="en">

<head>

{% load static %}

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link rel="stylesheet" href="{% static 'demo.css' %}">

<title>Demo</title>

</head>

<body>

<h3>Welcome</h3>

<a href="{% url 'login\_page' %}">Login</a>

<a href="{% url 'index\_page' %}">Home</a>

<a href="{% url 'feedback\_page' %}">Feedback</a>

</body>

</html>