

WEB DEVELOPMENT

TEMPLATE

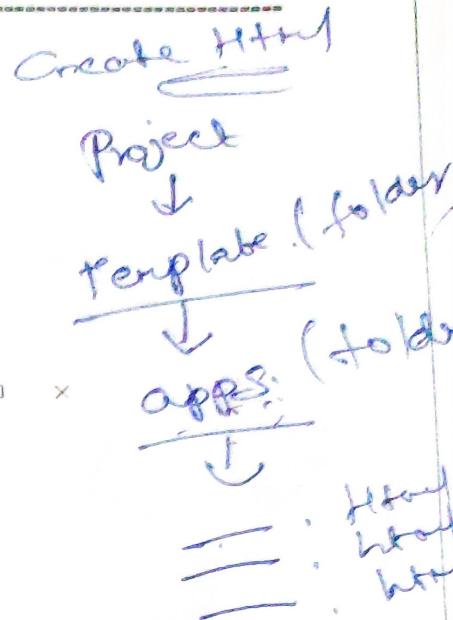
1. PROJECT: CREATE A WEB APPLICATION WITH TEMPLATES

1. Create the Project.

```
C:\Windows\system32\cmd.exe
```

```
D:\Django>django-admin startproject project3
```

```
D:\Django>
```



2. Create the Application.

```
C:\Windows\system32\cmd.exe
```

```
D:\Django>cd project3
```

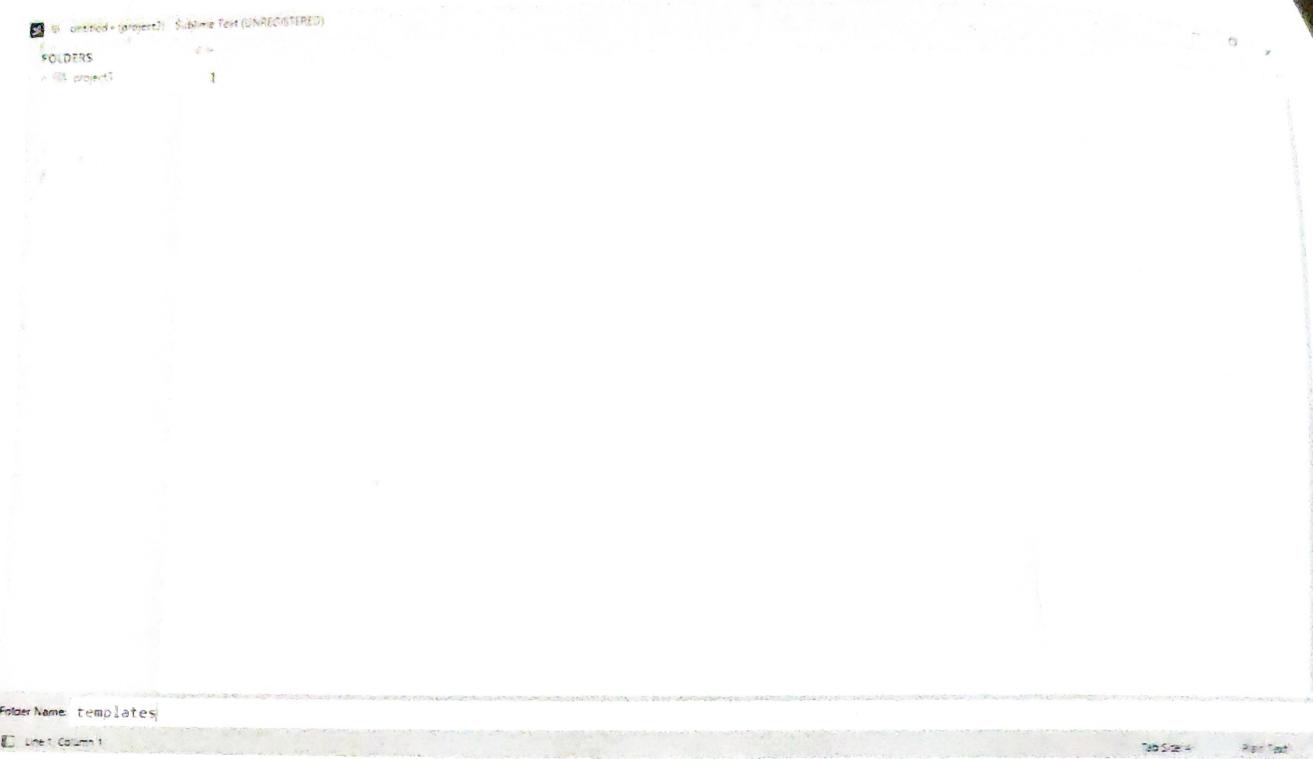
```
D:\Django\project3>python manage.py startapp tempapp
```

```
D:\Django\project3>
```

3. Right click project folder and click New folder for templates.



4. Enter the name Ex: **templates**.



5. Right click Template folder and click **New folder**.

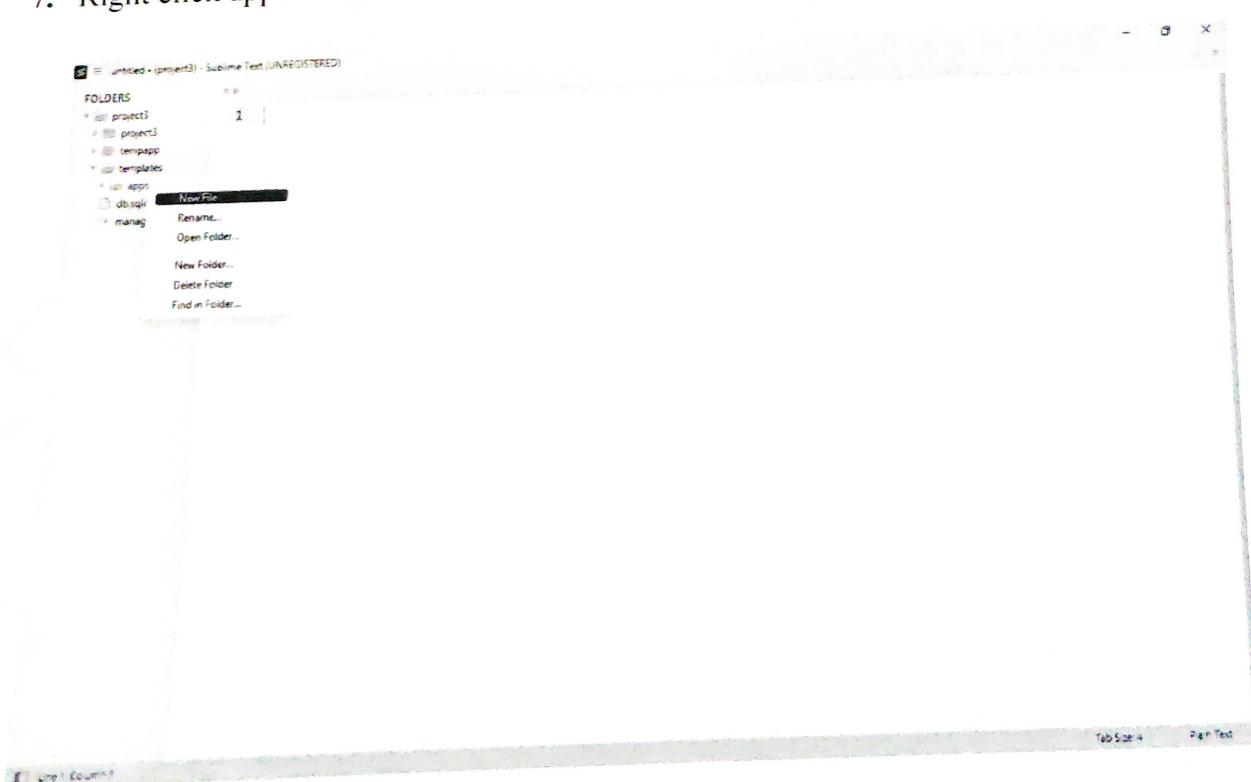


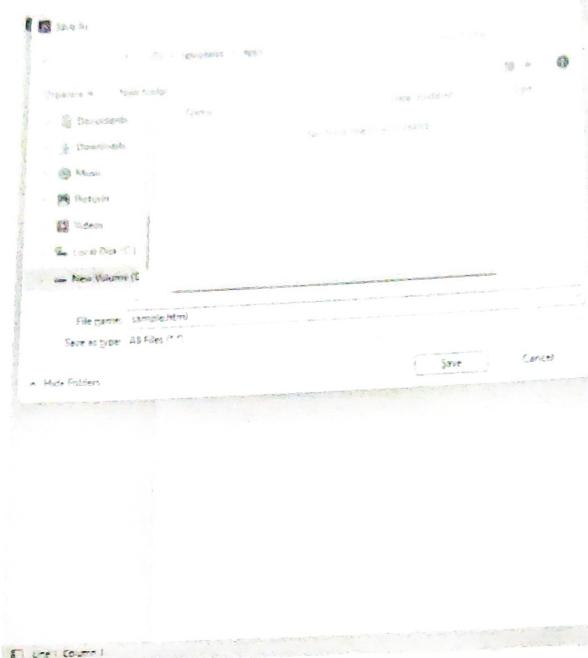
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6. Enter the **Folder Name**. Ex: apps



7. Right click apps and click **New file**.



8. Enter the name "sample.html"**9. Configure Settings file (Enter templates name in Directory)**

```
D:\Django\project3\project3\settings.py (project3) - Sublime Text (UNREGISTERED)

FOLDERS
project3
  project3
    __pycache__
    __init__.py
    asgi.py
    settings.py
    urls.py
    wsgi.py
  tempapp
  templates
  db.sqlite3
  manage.py

settings.py
12
13 from pathlib import Path
14 import os
15 # Build paths inside the project like this: BASE_DIR / 'subdir'.
16 BASE_DIR = Path(__file__).resolve().parent.parent
17 NEXT_DIR = os.path.join(BASE_DIR, 'templates')
18
19 # Quick-start development settings - unsuitable for production
20 # See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/
21
22 # SECURITY WARNING: keep the secret key used in production secret!
23 SECRET_KEY = 'django-insecure-wty82u7-oc7+d3k#o9ue&t%3y)a7qypl@)&3l^y6sn'
24
25 # SECURITY WARNING: don't run with debug turned on in production!
26 DEBUG = True
```

10. Configure **Settings file (Enter the directory name in templates.)**

```
S = D:\Django\project3\project3\settings.py (project3) - Sublime Text (UnREGISTERED)

FOLDERS
└── project3
    ├── project3
    ├── __pycache__
    │   ├── __init__.py
    │   ├── asgi.py
    │   ├── settings.py
    │   ├── urls.py
    │   └── wsgi.py
    ├── tempapp
    ├── templates
    └── db.sqlite3
    └── manage.py

ROOT_URLCONF = 'project3.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [NEXT_DIR],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]


```

11. Configure **View** file

12. Configure url file.

13. Creating **html page** (sample.html)

```
D:\Django\project3\templates\apps\sample.html (project3) - Sublime Text (UNREGISTERED)

FOLDERS
project3
project3
tempapp
__pycache__
migrations
__init__.py
admin.py
apps.py
models.py
tests.py
views.py
templates
apps
sample.html
db.sqlite3
manage.py

Sample.htm
1 <html>
2   <title>SYSTECH-GROUP</title>
3   <body>
4     <h1>
5       <font color="red" size="16"><p align="center">DJANGO FRAME WORK</p></font>
6     </h1>
7     <h2>
8       <font color="blue" size="10"><p align="center">SYSTECH GROUP</p></font>
9     </h2>
10   </body>
11 </html>
12
13
14
15
```

WEB DEVELOPMENT

14. Run the server

```
D:\Django\project3>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...
System check identified no issues (0 silenced).
You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations
for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
January 19, 2022 - 23:37:45
Django version 4.0.1, using settings 'project3.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[19/Jan/2022 23:38:06] "GET /home/ HTTP/1.1" 200 166
[19/Jan/2022 23:38:07] "GET /favicon.ico HTTP/1.1" 404 2217
[19/Jan/2022 23:40:12] "GET /home/ HTTP/1.1" 200 189
[19/Jan/2022 23:40:50] "GET /home/ HTTP/1.1" 200 211
```

OUTPUT

DJANGO FRAME WORK
SYSTECH GROUP

2. PROJECT: CREATE A WEB APPLICATION WITH TEMPLATES

1. Create Project

D:\>cd Django

D:\Django>django-admin startproject temppro

2. Create Application

D:\Django>cd temppro

D:\Django\temppro>python manage.py startapp tempapp

D:\Django\temppro>

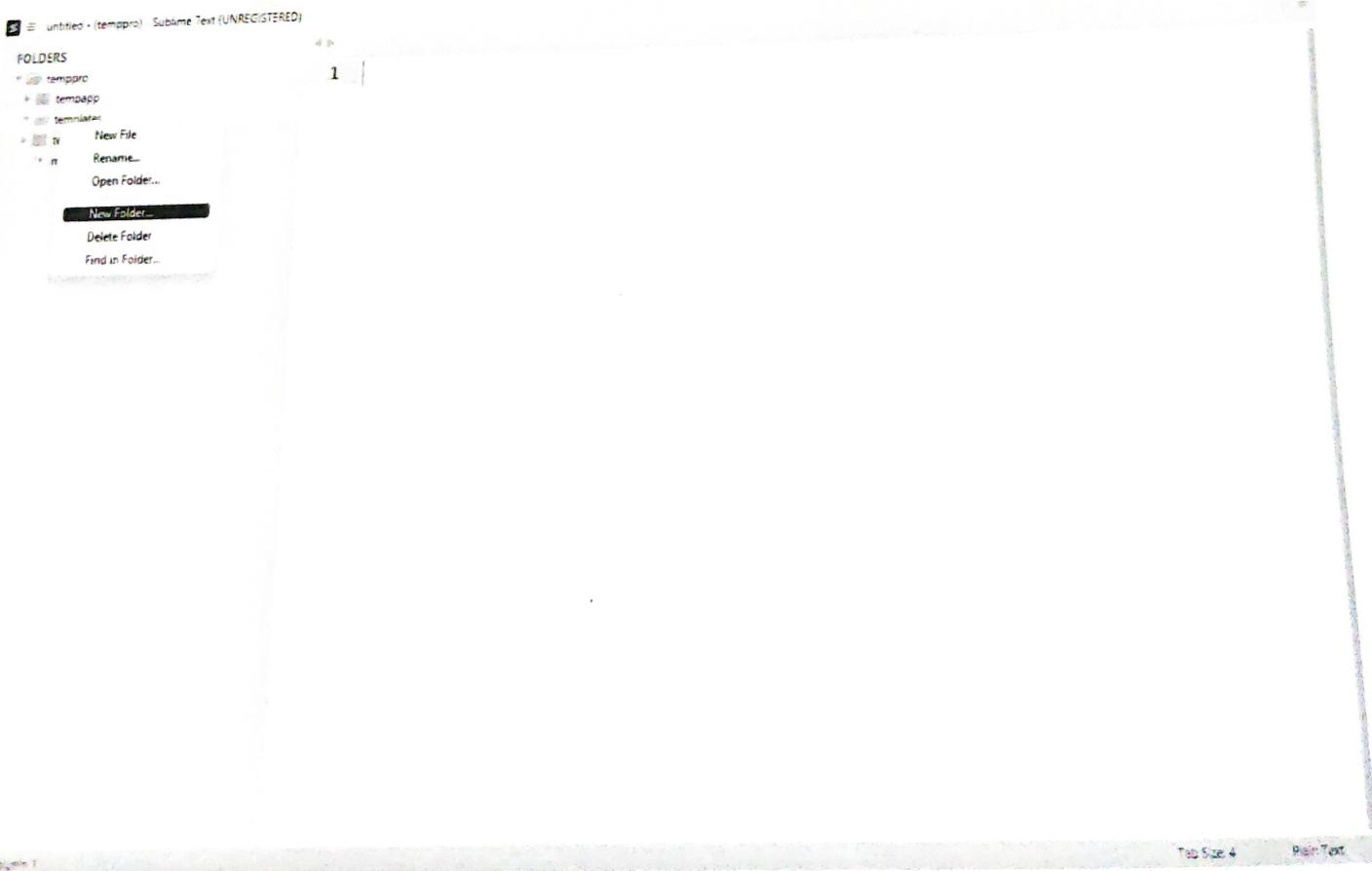
3. Right click **temppro folder** and click **New folder** for templates.



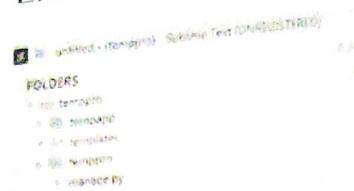
4. Enter the name Ex: templates.



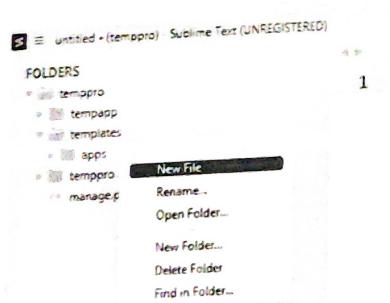
5. Right click Template folder and click New folder.



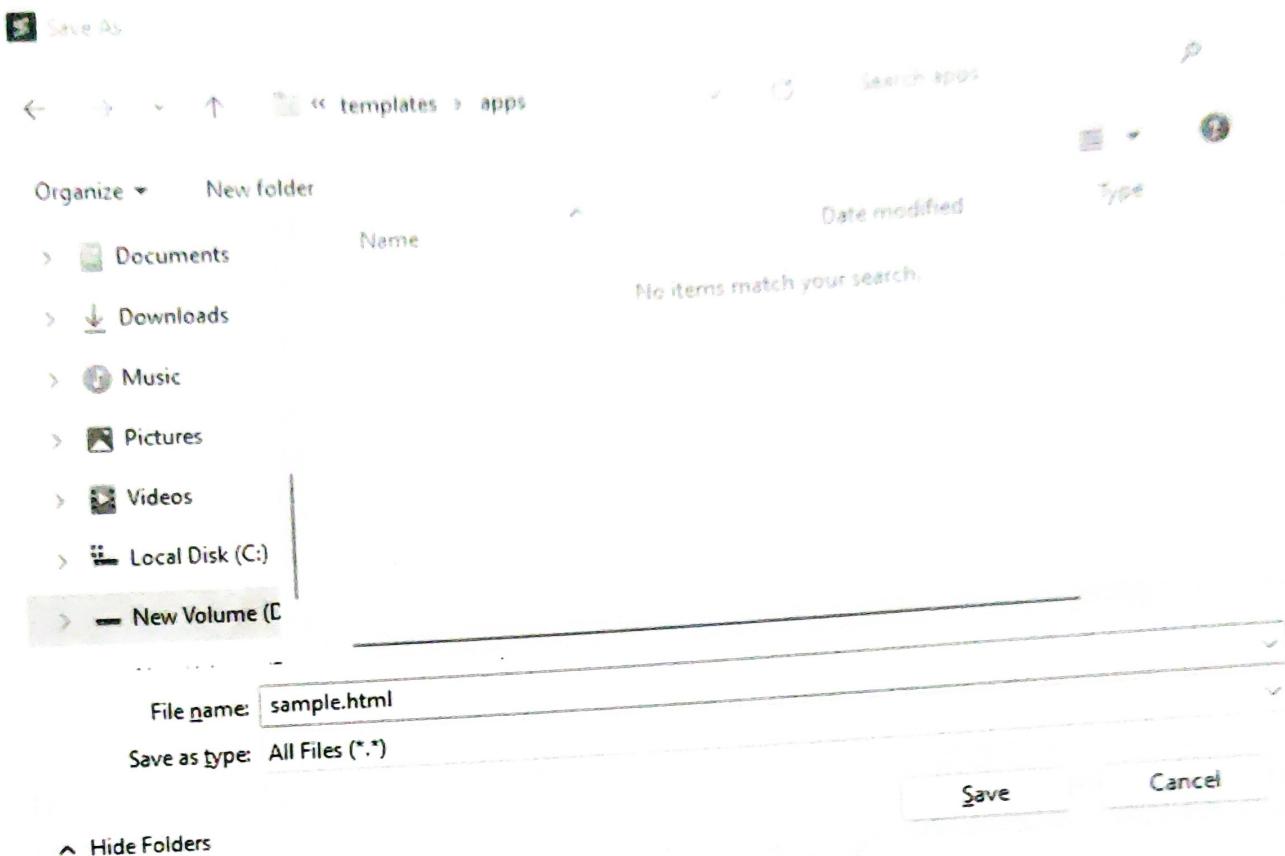
6. Enter the Folder Name.



7. Right click apps and click New file.



8. Enter the name "sample.html"



9. Configure Settings file (Enter templates name in Directory)

```

D:\Django\tmp\temp\settings.py (temp\pro) - Sublime Text (UNREGISTERED)

FOLD settings.py
  11
  12
  13 from pathlib import Path
  14 import os
  15 # Build paths inside the project like this: BASE_DIR / 'subdir'.
  16 BASE_DIR = Path(__file__).resolve().parent.parent
  17 NEXT_DIR = os.path.join(BASE_DIR, 'templates')
  18
  19 # Quick-start development settings - unsuitable for production
  20 # See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/
  21
  22 # SECURITY WARNING: keep the secret key used in production secret!
  23 SECRET_KEY = 'django-insecure-4*w8t8h4$tm8gh-h4zfp@5jgmw@4/dm22014dv^+8'
  24
  25 # SECURITY WARNING: don't run with debug turned on in production!
  26 DEBUG = True
  27
  28 ALLOWED_HOSTS = []
  29
  30
  31 # Application definition
  32
  33 INSTALLED_APPS = [
  34     'django.contrib.admin',
  35     'django.contrib.auth',
  36     'django.contrib.contenttypes',
  37     'django.contrib.sessions',
  38     'django.contrib.messages',
  39     'django.contrib.staticfiles',
  40     'tempapp'
  41 ]
  
```

10. Configure **Settings** file (Enter the directory name in templates.)

```
D:\Django\temp\temp\temp\settings.py (temp\temp) - Sublime Text (UNREGISTERED)
1 #!/usr/bin/env python
2
3 # Django settings for temp project.
4
5 # For more information please refer to:
6 # https://docs.djangoproject.com/en/4.0/topics/settings/
7
8 # Environment
9 # ===========
10 # The following variables are environment variables that can be used
11 # to override the values in this file.
12 # See https://docs.djangoproject.com/en/4.0/ref/settings/#std:env-var-DJANGO_SETTINGS_MODULE
13 # for more information.
14 #
15 # DJANGO_SETTINGS_MODULE = 'temp.settings'
16 #
17 # Python Path
18 # ==========
19 # The following variable is a list of paths that are added to the Python
20 # path at runtime.
21 #
22 # BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))
23 #
24 # Root URL Configuration
25 # ======================
26 # The root URL configuration for this project.
27 #
28 # ROOT_URLCONF = 'temp.urls'
29 #
30 # TEMPLATES
31 # ======
32 #
33 # The following dictionary defines the template engines and their
34 # configurations.
35 #
36 # TEMPLATES = [
37 #     {
38 #         'BACKEND': 'django.template.backends.django.DjangoTemplates',
39 #         'DIRS': [NEXT_DIR],
40 #         'APP_DIRS': True,
41 #         'OPTIONS': {
42 #             'context_processors': [
43 #                 'django.template.context_processors.debug',
44 #                 'django.template.context_processors.request',
45 #                 'django.contrib.auth.context_processors.auth',
46 #                 'django.contrib.messages.context_processors.messages',
47 #             ],
48 #         },
49 #     },
50 # ],
51 #
52 # WSGI Application
53 # =====
54 #
55 # The WSGI application for this project.
56 #
57 # WSGI_APPLICATION = 'temp.wsgi.application'
58 #
59 #
60 #
61 # Database
62 # =====
63 #
64 # https://docs.djangoproject.com/en/4.0/ref/settings/#databases
65 #
66 # DATABASES = {
67 #     'default': {
68 #         'ENGINE': 'django.db.backends.sqlite3',
69 #         'NAME': BASE_DIR / 'db.sqlite3',
70 #     }
71 # }
```

11. Configure View file

```
from django.shortcuts import render
def testing(request):
    return render(request, 'apps/sample.html')
```

12. Configure url file

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

urlpatterns = [
    path('admin/', admin.site.urls),
    path('index/', views.testing)
]
```

13. Creating html page (sample.html)

```
<html>
<head>
<style>
p {
    color:white;
    text-indent: 20px;
    text-align: center;
    font-family: 'Times New Roman', Times, serif;
    font-size: xx-large;
    background-color: blue;
}
</style>
</head>
<body>
<p>SYSTECH GROUP</p>
<p>SOFTWARE DEVELOPMENT TRAINING:<br> DJANGO<br>PYTHON<br>C<br>C++<br>SQL<br>HTML<br>CSS<br></p>
</body>
</html>
```

14. Run the server



```
D:\Django\temppro>python manage.py runserver
```

```
Watching for file changes with StatReloader
Performing system checks...
```

```
System check identified no issues (0 silenced).
```

```
You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations
for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
April 01, 2022 - 17:54:41
Django version 4.0.1, using settings 'temppro.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

OUTPUT

SYSTECH GROUP

SOFTWARE DEVELOPMENT TRAINING:

JAVA

PHP

CSS

SQL

HTML

CSS

3. PROJECT : CREATE A WEB APPLICATION WITH TEMPLATES

1. Create Project and create an Application

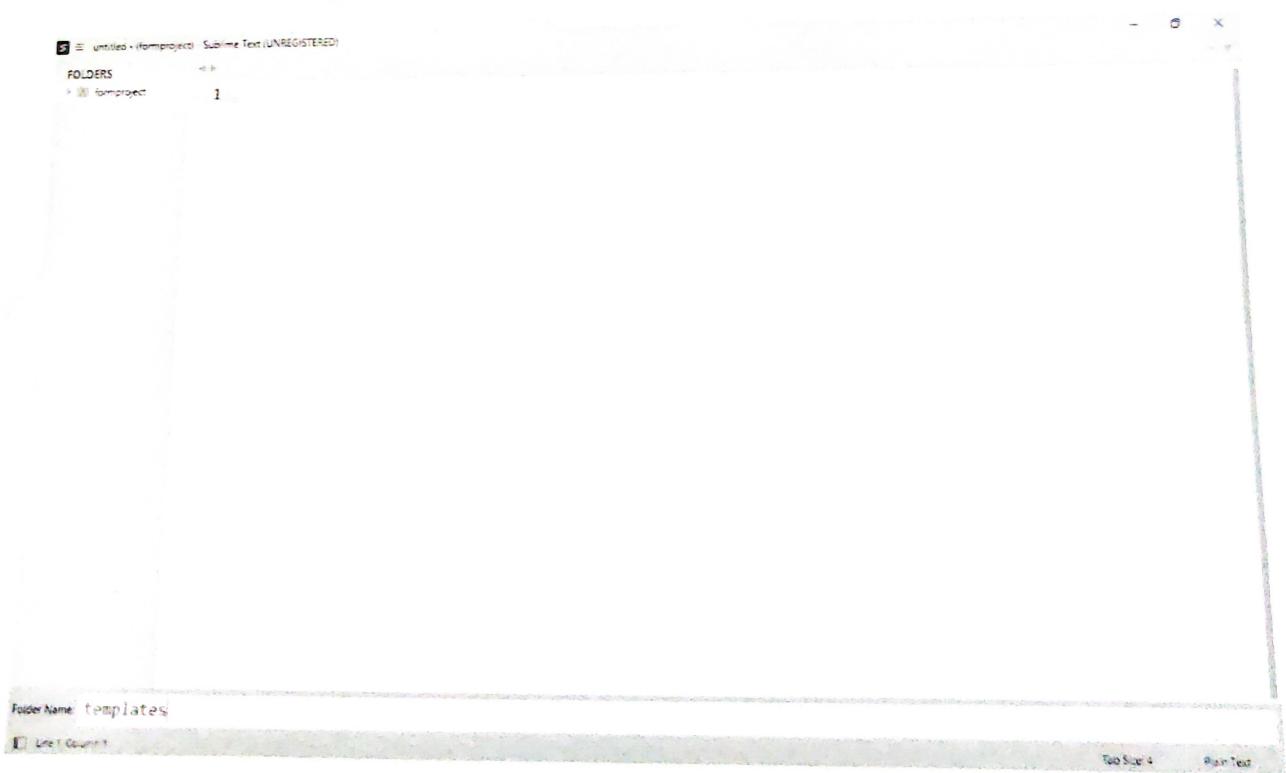
```
D:\Django>django-admin startproject formproject
```

```
D:\Django>cd formproject
```

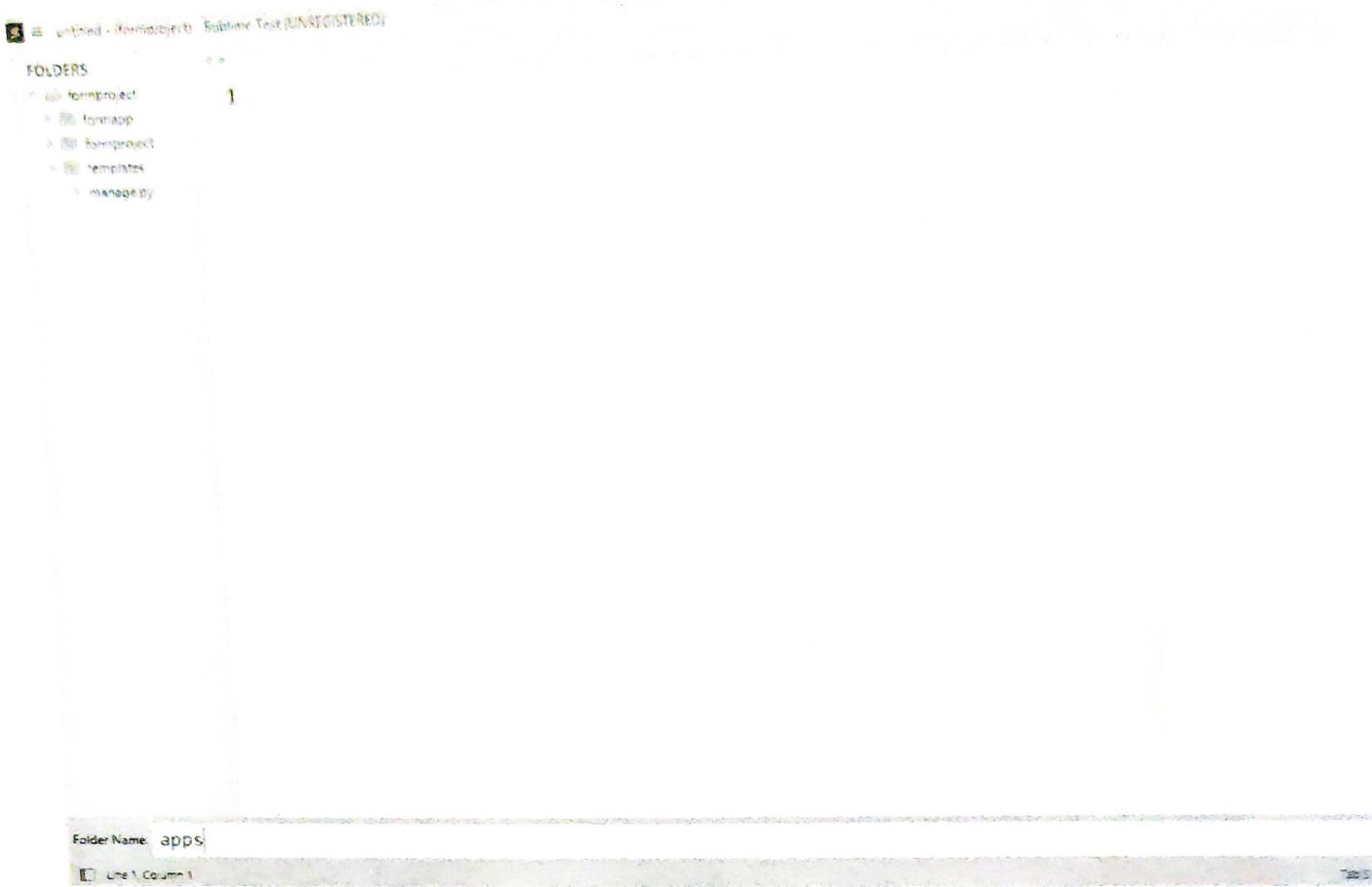
```
D:\Django\formproject>python manage.py startapp formapp
```

```
D:\Django\formproject>
```

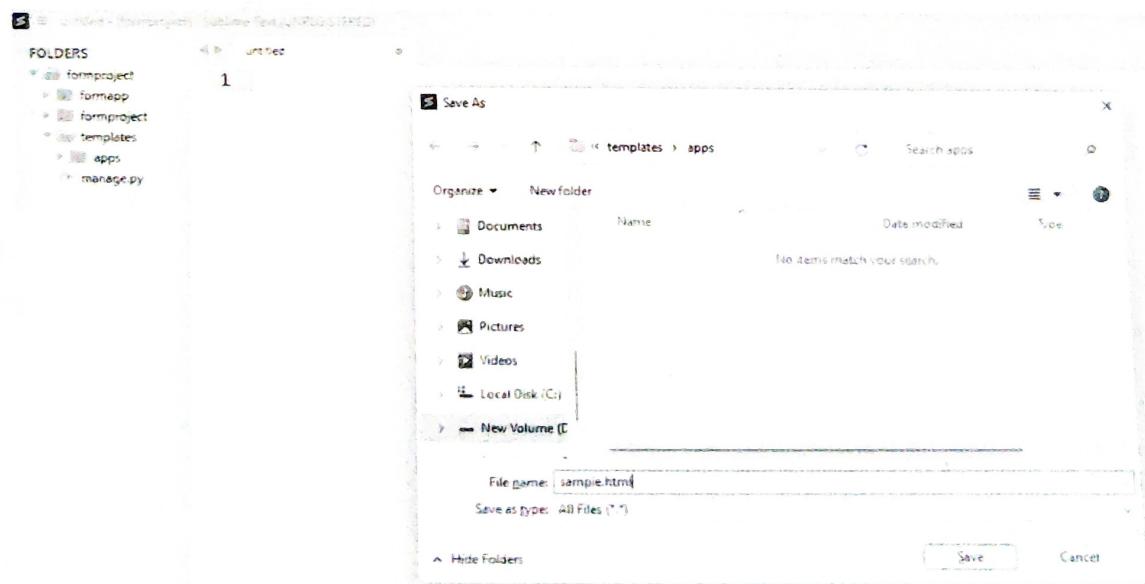
2. Right click **formproject** and create new folder (name :templates)



3. Right click Template folder and create new folder (name: apps).



4. Right click apps and create New file (name : sample.html)



5. Creating html page (sample.html)

6. Configure **Settings** file (Enter templates name in Directory)

D:\Django\formproject\formproject\settings.py - (formproject) - Sublime Text (UNREGISTERED)

```
FOLDERS
+ formproject
  + forms
  + formproject
    + __init__.py
    + asgi.py
    + settings.py
    + urls.py
    + wsgi.py
+ templates
+ apps
+ manage.py

from pathlib import Path
import os
# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent
NEXT_DIR = os.path.join(BASE_DIR, 'templates')
# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/
# SECURITY WARNING: Keep the secret key used in production secret!
SECRET_KEY = 'django-insecure-g15^@n*x@2m4u2xegs&kf11(*xh5_m_1#161q'
# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

ALLOWED_HOSTS = []

# Application definition

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'formapp'
]

MIDDLEWARE = [
```

7. Configure **Settings** file (Enter the directory name in templates.)

```
 5 E D:\Django\formproject\formproject\settings.py (formproject) - Sublime Text (UNREGISTERED)
 6
 7 FOLDERS = [
 8     'formproject',
 9     'formapp',
10     'formapp',
11     '_pycache_',
12     '__init__.py',
13     'forms.py',
14     'models.py',
15     'utils.py',
16     'wsgi.py',
17     'templates',
18     'urls.py',
19     'management'
20 ]
21
22 ROOT_URLCONF = 'formproject.urls'
23
24 TEMPLATES = [
25     {
26         'BACKEND': 'django.template.backends.django.DjangoTemplates',
27         'DIRS': [os.path.join(BASE_DIR, 'templates')], # Next line
28         'OPTIONS': {
29             'context_processors': [
30                 'django.template.context_processors.debug',
31                 'django.template.context_processors.request',
32                 'django.contrib.auth.context_processors.auth',
33                 'django.contrib.messages.context_processors.messages',
34             ],
35         },
36     },
37 ]
38
39
40
41 WSGI_APPLICATION = 'formproject.wsgi.application'
42
43
44
45 # Database
46 # https://docs.djangoproject.com/en/4.0/ref/settings/#databases
47
48 DATABASES = {
49     'default': {
50         'ENGINE': 'django.db.backends.sqlite3',
51         'NAME': os.path.join(BASE_DIR, 'db.sqlite3'),
52     }
53 }
```

8. Configure View file

```
from django.shortcuts import render
def testing(request):
    return render(request,'apps/sample.html')
```

9. Configure url file

```
from django.contrib import admin
from django.urls import path
from formapp import views
urlpatterns = [
    path('admin/', admin.site.urls),
    path('index/', views.testing),
]
```

WEB DEVELOPMENT

10. Run the server

```
D:\Django\formproject>python manage.py runserver
```

```
Watching for file changes with StatReloader  
Performing system checks...
```

```
System check identified no issues (0 silenced).
```

```
You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations  
for app(s): admin, auth, contenttypes, sessions.
```

```
Run 'python manage.py migrate' to apply them.
```

```
April 04, 2022 - 18:04:49
```

```
Django version 4.0.1, using settings 'formproject.settings'
```

```
Starting development server at http://127.0.0.1:8000/
```

```
Quit the server with CTRL-BREAK.
```

OUTPUT:

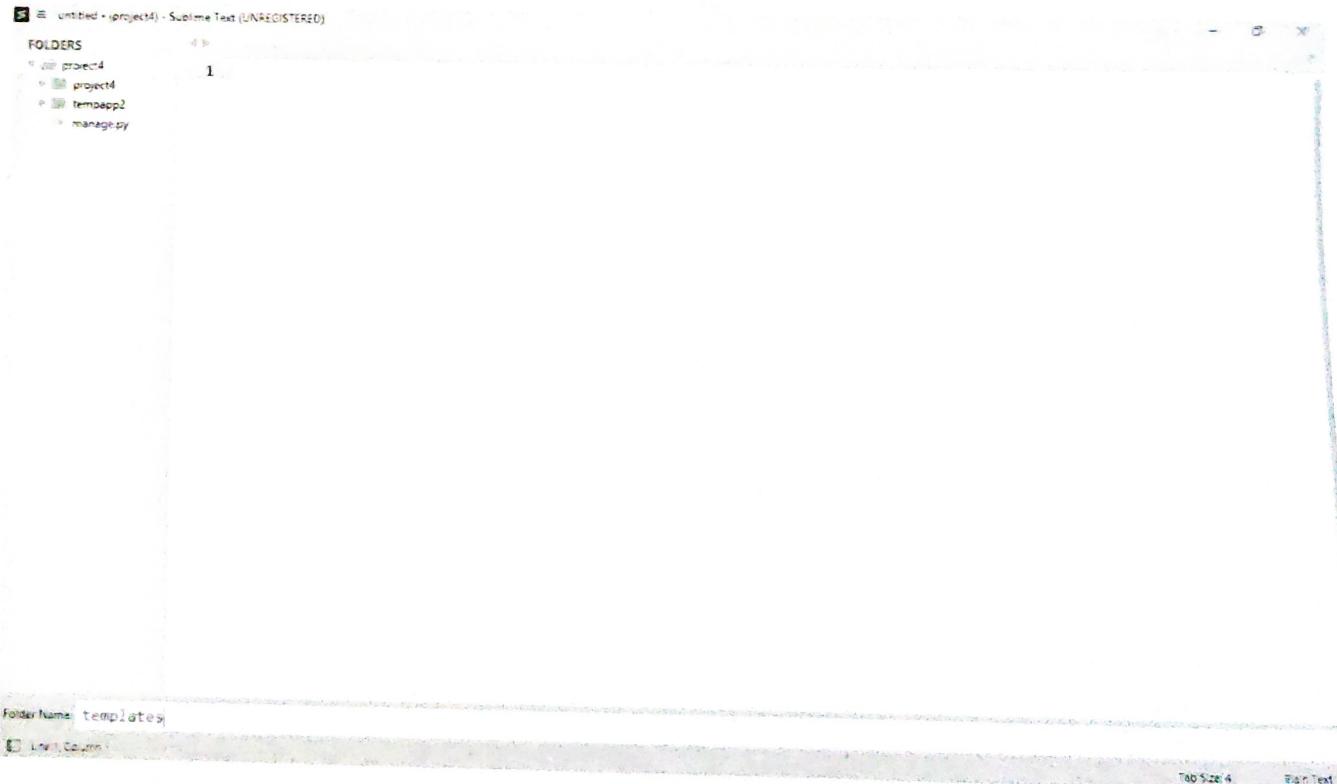
The screenshot shows a web browser window with the URL 127.0.0.1:8000/index/. The page title is "SYSTECH GROUP". Below the title, there is a form titled "APPLICATION FORM" with three fields: "NAME" (with a placeholder "John Doe"), "EMAIL" (with a placeholder "john.doe@example.com"), and "BIRTHDAY" (with a placeholder "mm/dd/yyyy").

4. PROJECT : CREATE A WEB APPLICATION WITH STATIC OPTIONS

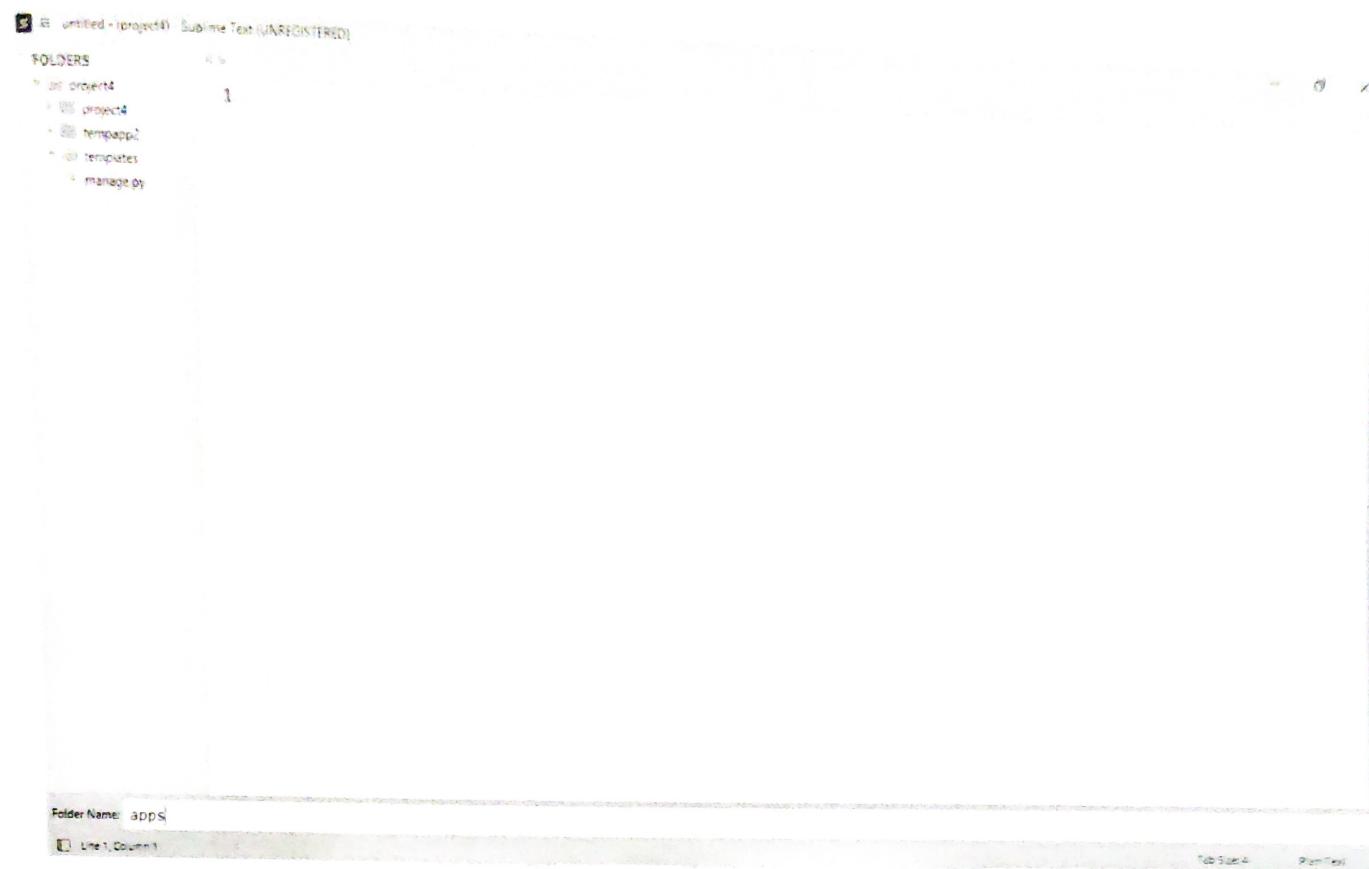
1. Create a project and application

```
D:\Django>django-admin startproject project4  
D:\Django>cd project4  
D:\Django\project4>python manage.py startapp tempapp2  
D:\Django\project4>
```

2. Create a templates folder



3. Create a apps folder inside the templates folder



4. Configuring Settings file

```
Folder Name: settings.py
Line 1, Column 1
Tab Size: 4     Print Preview
FOLDERS
project4
└── project4
    ├── __pycache__
    │   └── __init__.py
    ├── asgi.py
    ├── settings.py
    ├── wsgi.py
    └── tempapp2
        └── templates
            └── manage.py

1 #!/usr/bin/env python
2
3 from pathlib import Path
4
5 import os
6
7 # build paths inside the project (like this: BASE_DIR / 'subdir')
8 BASE_DIR = Path(__file__).resolve().parent.parent
9
10 NEXT_DIR = os.path.join(BASE_DIR, 'templates')
11
12 # Quick start development settings - unsuitable for production
13 # See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/
14
15 # SECURITY WARNING: keep the secret key used in production secret!
16 SECRET_KEY = 'django-insecure-#9iukj5ku44itshomeyjempqul6shk5jme'
17
18 # SECURITY WARNING: don't run with debug turned on in production!
19 DEBUG = True
20
21
22 ALLOWED_HOSTS = []
23
24
25 # Application definition
26
27 INSTALLED_APPS = [
28     'django.contrib.admin',
29     'django.contrib.auth',
30     'django.contrib.contenttypes',
31     'django.contrib.sessions',
32     'django.contrib.messages',
33     'django.contrib.staticfiles',
34     'tempapp2',
35 ]
36
37 MIDDLEWARE = [
38     'django.middleware.security.SecurityMiddleware',
39     'django.contrib.sessions.middleware.SessionMiddleware',
40     'django.middleware.common.CommonMiddleware',
41     'django.middleware.csrf.CsrfViewMiddleware',
42     'django.middleware.clickjacking.XFrameOptionsMiddleware',
43 ]
```

5. Configuring Settings file and add templates

The screenshot shows the Sublime Text editor with the file `D:\Django\project4\project4\settings.py` open. The code is as follows:

```
1 #!/usr/bin/env python
2
3 # Django settings for project4 project.
4
5 # For more information on this file, see
6 # https://docs.djangoproject.com/en/1.6/ref/settings/
7
8 # This file contains the root URL configuration for the project.
9 #
10 # You'll probably want to change the title and subtitle to something
11 # more meaningful, and to change the URL patterns.
12 #
13 # Additionally, you can import other settings from this file by
14 # adding them to the import statements below.
15 #
16 # To help you get started, we've included some initial
17 # configuration that you can remove or modify once you've
18 # added your own preferences.
19
20 # Define the project's name and the application's name.
21 PROJECT_NAME = 'project4'
22 APP_NAME = 'tempapp2'
23
24 # Set the base URL for your project here.
25 # For example: http://www.yourdomain.com
26 # Note that you must add trailing slash.
27 BASE_URL = 'http://www.django-project.com/en/4.0/ref/settings/#databases'
28
29 # Set the database for your project here.
30 # For example: ENGINE = 'django.db.backends.sqlite3',
31 #             NAME = 'db_name'
32
33 # Set the root URL configuration for the project.
34 ROOT_URLCONF = 'tempapp2.urls'
35
36 # Set the template directory for the project.
37 TEMPLATES = [
38     {
39         'DIRS': [os.path.join(BASE_DIR, 'templates')], # Add the project's template directory.
40         'APP_DIRS': True,
41         'OPTIONS': {
42             'context_processors': [
43                 'django.template.context_processors.debug',
44                 'django.template.context_processors.request',
45                 'django.contrib.auth.context_processors.auth',
46                 'django.contrib.messages.context_processors.messages',
47             ],
48         },
49     },
50 ]
51
52 # Set the WSGI application for the project.
53 WSGI_APPLICATION = 'project4.wsgi.application'
54
55 # Set the database for the project.
56 # For example: ENGINE = 'django.db.backends.sqlite3',
57 #             NAME = 'db_name'
58
59 # Set the default database for the project.
60 DATABASES = {
61     'default': {
62         'ENGINE': 'django.db.backends.sqlite3',
63         'NAME': 'db_name'
64     }
65 }
66
67 # Set the static files for the project.
68 # For example: STATICFILES_DIRS = [os.path.join(BASE_DIR, 'static')]
69 #             STATICFILES_FINDERS = ['django.contrib.staticfiles.finders.FileSystemFinder',
70 #                                   'django.contrib.staticfiles.finders.AppDirectoriesFinder']
71
72 # Set the media files for the project.
73 # For example: MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
74 #             MEDIA_URL = '/media/'
75
76 # Set the email configuration for the project.
77 # For example: EMAIL_BACKEND = 'django.core.mail.backends.smtp.EmailBackend'
78 #             EMAIL_HOST = 'localhost'
79 #             EMAIL_PORT = 1025
80 #             EMAIL_HOST_USER = ''
81 #             EMAIL_HOST_PASSWORD = ''
82
83 # Set the time zone for the project.
84 # For example: TIME_ZONE = 'Asia/Kolkata'
85
86 # Set the language code for the project.
87 # For example: LANGUAGE_CODE = 'en-us'
88
89 # Set the first language code for the project.
90 # For example: LANGUAGES = [('en', 'English'), ('es', 'Spanish')]
91
92 # Set the date format for the project.
93 # For example: DATE_FORMAT = 'Y-m-d H:i:s'
94
95 # Set the time format for the project.
96 # For example: TIME_FORMAT = 'H:i:s'
97
98 # Set the date/time format for the project.
99 # For example: DATETIME_FORMAT = 'Y-m-d H:i:s'
100
101 # Set the date/time format for the project.
102 # For example: DATETIME_INPUT_FORMATS = ['Y-m-d H:i:s']
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```

6. Configuring View file

The screenshot shows the Sublime Text editor with the file `D:\Django\project4\tempapp2\views.py` open. The code is as follows:

```
1 #!/usr/bin/env python
2
3 # Django.shortcuts import render
4
5 def testing(request):
6     # DJANGO FRAMEWORK - SYSTEM GROUP
7     x = { 'text': 'c' }
8
9     return render(request, 'apps/sample.html', context=x)
```

FOLDERS

```
* project4
  * project4
    * __pycache__
      * __init__.py
      * asgi.py
      * settings.py
      * urls.py
      * wsgi.py
    * tempapp2
  * templates
    * manage.py
```

```
16 from django.contrib import admin
17 from django.urls import path
18 from tempapp2 import views
19 urlpatterns = [
20     path('admin/', admin.site.urls),
21     path('home/', views.testing),
22 ]
23
24
25 ]
```

Line 25, Column 1

8. Creating html file in apps folder and type the commands

FOLDERS

```
* project4
  * project4
    * __pycache__
    * tempapp2
  * templates
    * apps
      * sample.html
    * manage.py
```

```
1 {{text}}
```

9. Run the server

```
C:\Windows\system32\cmd.exe python manage.py runserver

D:\Django\project4>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).

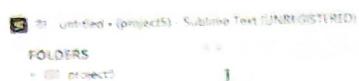
You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations
or app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
January 20, 2022 - 00:18:16
Django version 4.0.1, using settings 'project4.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

OUTPUT:

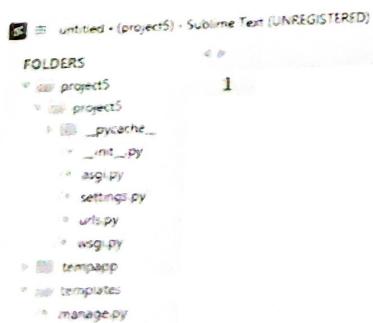


5. PROJECT : CREATE A WEB APPLICATION WITH STATIC OPTIONS IMPORTING IMAGES AND CSS

1. Create Project and create an Application.
2. Right click Project file, create Templates.



3. Right click template folder and create apps folder.



4. Right click project folder and create **static folder**.



5. Right click static folder and create **images folder**.



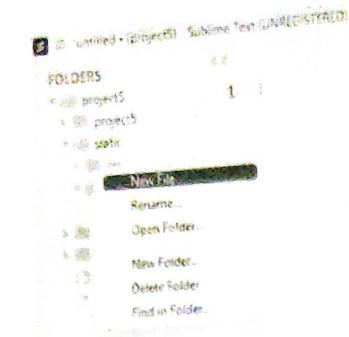
6. Copy and paste the images in images folder.



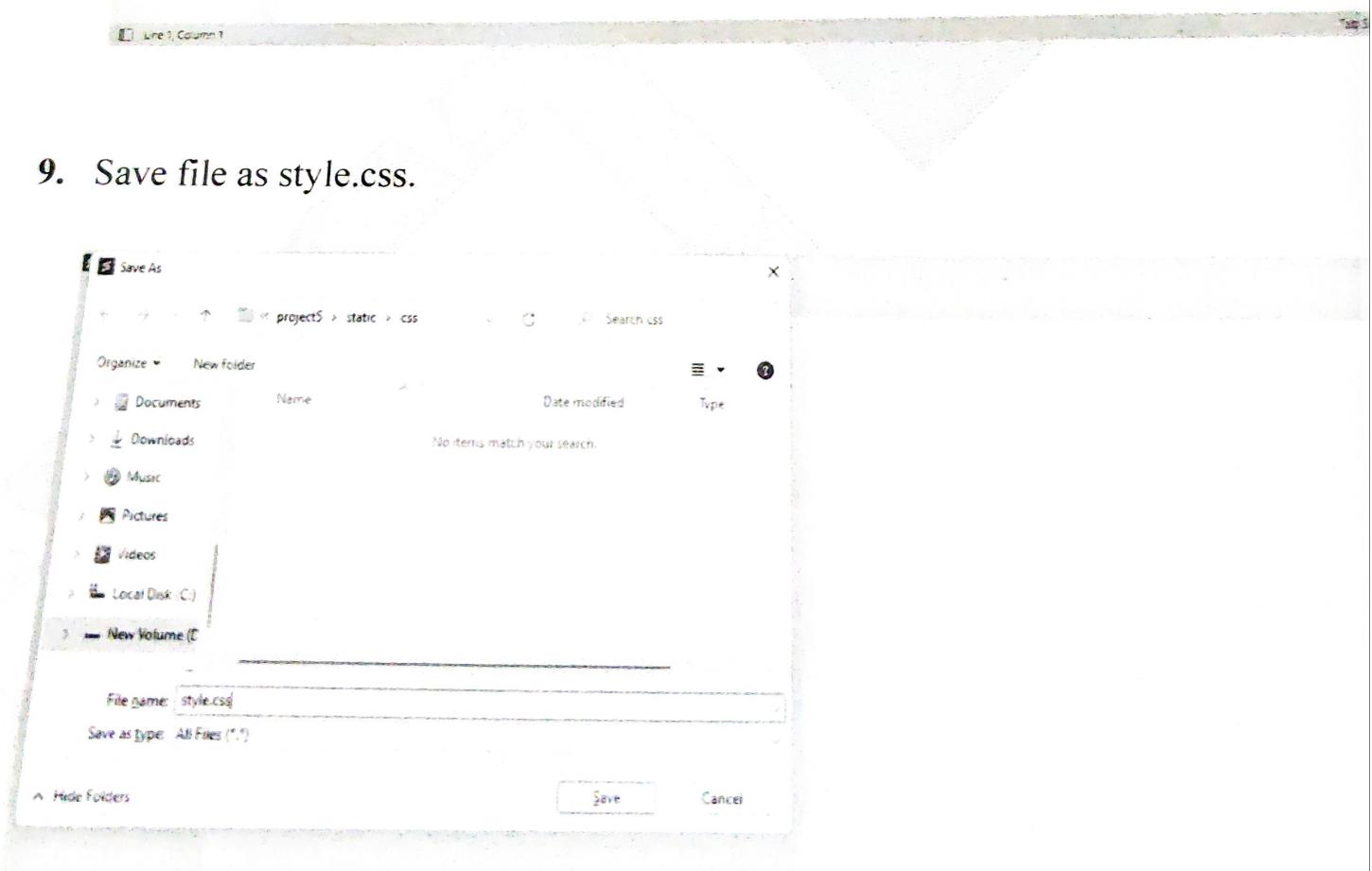
7. Right click static folder and create css folder.



8. Right click css folder and create new file.



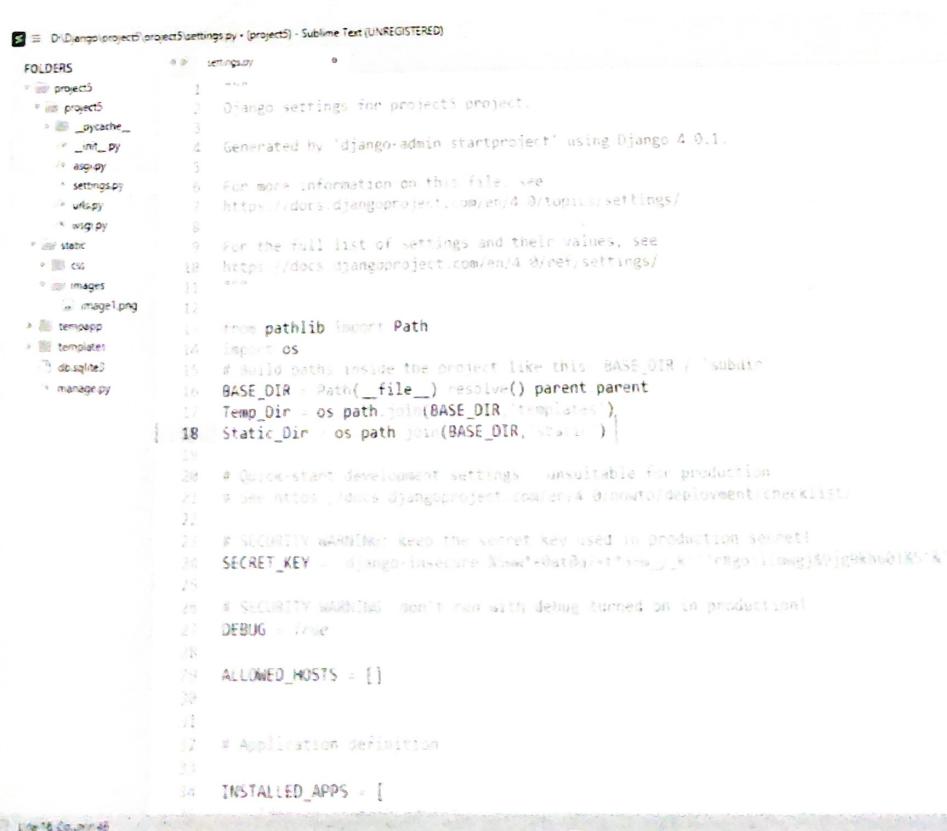
9. Save file as style.css.



10. Create a style.css file.

```
body{  
    background: white;  
    color:white;  
    text-align: center;  
}  
  
img{  
  
    width:20%;  
    height:20%;  
}
```

11. Configure **Settings** file and add templates name and directories.



The screenshot shows the Sublime Text editor with the file 'D:\Django\project5\project5\settings.py' open. The code is a Python settings file for a Django project. It includes comments explaining the purpose of various sections like 'FOLDERS', 'INSTALLED_APPS', and 'TEMPLATES'. The 'TEMPLATES' section is highlighted, showing the configuration for building paths inside the project. The code uses standard Python syntax with imports from 'pathlib' and 'os' modules, and defines variables like 'BASE_DIR', 'Temp_Dir', and 'Static_Dir'.

```
1  """  
2  Django settings for project5 project.  
3  
4  Generated by 'django-admin startproject' using Django 4.0.1.  
5  
6  For more information on this file, see  
7  https://docs.djangoproject.com/en/4.0/topics/settings/  
8  
9  For the full list of settings and their values, see  
10 https://docs.djangoproject.com/en/4.0/ref/settings/  
11  
12 from pathlib import Path  
13 import os  
14  
15 # Build paths inside the project like this: BASE_DIR / 'subdir'  
16 BASE_DIR = Path(__file__).resolve().parent.parent  
17 Temp_Dir = os.path.join(BASE_DIR, 'templates')  
18 Static_Dir = os.path.join(BASE_DIR, 'static')  
19  
20 # Quick-start development settings - unsuitable for production  
21 # See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/  
22  
23 # SECURITY WARNING: Keep the secret key used in production secret!  
24 SECRET_KEY = 'django-insecure-k&w&t@at&@+t^&=m_&x_&emg!uuej&vijgkhu&8518'  
25  
26 # SECURITY WARNING: don't run with debug turned on in production!  
27 DEBUG = True  
28  
29 ALLOWED_HOSTS = []  
30  
31  
32 # Application definition  
33  
34 INSTALLED_APPS = [
```

12. Add Static file Directory.

13. Create html file in apps folder.

```
{% load static %}  
<html>  
    <title>SYSTECH-GROUP</title>  
    <link rel="stylesheet" href="{% static "css/style.css" %}">  
      
<body>  
    <h1>  
        <font color="red" size="18" ><p align="center">DJANGO FRAME WORK</p></font>  
    </h1>  
  
    <h2>  
        <font color="blue" size="16" ><p align="center">SYSTECH GROUP</p></font>  
    </h2>  
</body>  
</html>
```

14. Run the server.

```
C:\Windows\system32\cmd.exe - python manage.py runserver
D:\Django\project5>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...
System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations f
or app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
January 21, 2022 - 00:34:31
Django version 4.0.1, using settings 'project5.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

OUTPUT:



DJANGO FRAME WORK

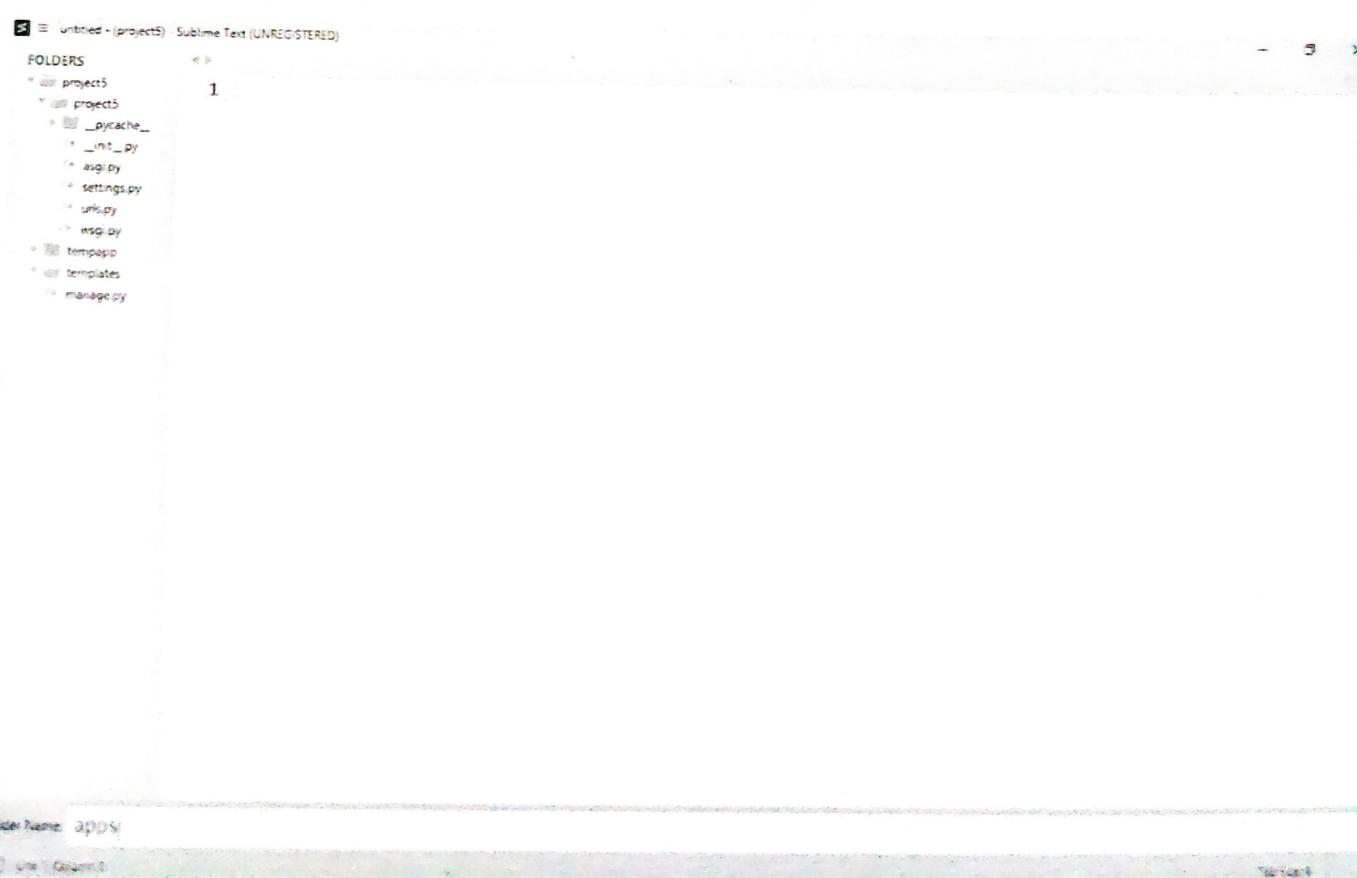
SYSTECH GROUP

6. PROJECT : CREATE A WEB APPLICATION WITH STATIC OPTIONS IMPORTING IMAGES AND CSS

1. Create **Project**, create an **Application**.
2. Right click Project file, create **Templates**.



3. Right click **template folder** and create **apps** folder.



4. Right click static folder and create static folder.

```
FOLDERS
  project5
    __init__.py
    asgi.py
    settings.py
    urls.py
    wsgi.py
    manage.py
```

FolderName: static

Line 1 Column 1

Tab Size 4

Print

5. Right click static folder and create images folder.

```
FOLDERS
  project5
    __init__.py
    asgi.py
    settings.py
    urls.py
    wsgi.py
    static
      images
```

FolderName: images

Line 1 Column 1

Tab S

6. Copy and paste the images in images folder.



7. Right click static folder and create **css** folder.

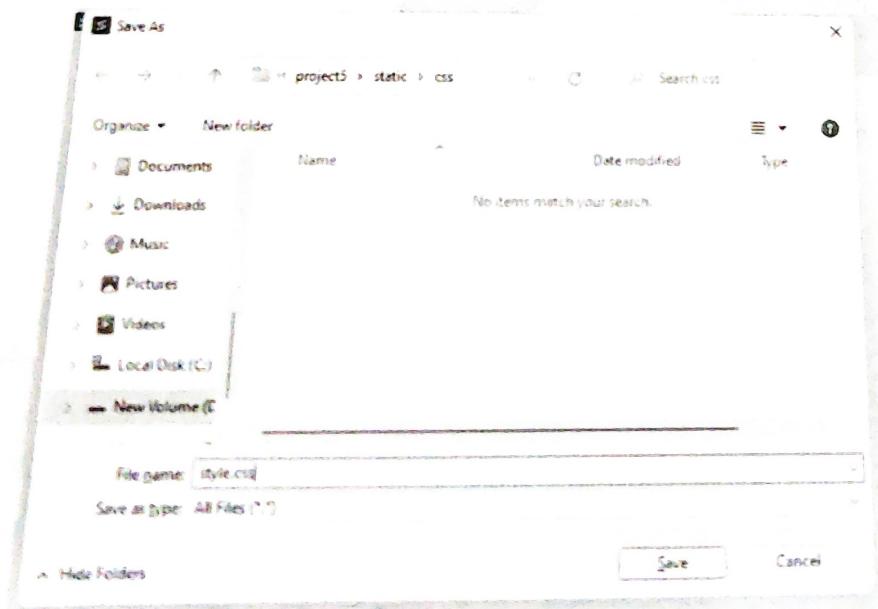
```
untitled - (project5) Sublime Text (UNREGISTERED)
FOLDERS
+ project5 1
  + projects
    + __pycache__
      + __init__.py
      + asgi.py
      + settings.py
      + urls.py
      + wsgi.py
  + static
  + images
  + tempapp
  + templates
  + manage.py
```



8. Right click css folder and create new file.



9. Save file as style.css.



10. Create a style.css file.

```
body{  
    background: white;  
    color:white;  
    text-align: center;  
}  
  
img{  
  
    width:20%;  
    height:20%;  
}
```

11. Configure Settings file and add templates name and directories.

```
File D:\Django\project5\project5\settings.py [project5] Sublime Text (UNREGISTERED)  
  
FOLDERS  
* D:\Django\project5  
* project5  
*   __pycache__  
*     __init__.py  
*     asgi.py  
*     settings.py  
*     urls.py  
*     wsgi.py  
* static  
*   css  
*   images  
*     image1.png  
* tempapp  
* templates  
* db.sqlite3  
* manage.py  
  
1 #  
2 #  
3 # Django settings for project5 project.  
4 #  
5 # Generated by 'django-admin startproject' using Django 4.0.1.  
6 #  
7 # For more information on this file, see  
8 # https://docs.djangoproject.com/en/4.0/topics/settings/  
9 #  
10 # For the full list of settings and their values, see  
11 # https://docs.djangoproject.com/en/4.0/ref/settings/  
12 #  
13 from pathlib import Path  
14 import os  
15 # Build paths inside the project like this: BASE_DIR / 'subdir'  
16 BASE_DIR = Path(__file__).resolve().parent.parent  
17 Temp_Dir = os.path.join(BASE_DIR, 'templates')  
18 Static_Dir = os.path.join(BASE_DIR, 'static')  
19 #  
20 # Quick start development settings - unsuitable for production  
21 # See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/  
22 #  
23 # SECURITY WARNING: keep the secret key used in production secret!  
24 SECRET_KEY = 'django-insecure-k0wnef6at8q7v7r7naykr74eu1lmg3ljk9m01g19'  
25 #  
26 # SECURITY WARNING: don't run with debug turned on in production!  
27 DEBUG = True  
28 #  
29 ALLOWED_HOSTS = []  
30 #  
31 # Application definition  
32 #  
33 INSTALLED_APPS = [  
34     'django.contrib.admin',  
35     'django.contrib.auth',  
36     'django.contrib.contenttypes',  
37     'django.contrib.sessions',  
38     'django.contrib.messages',  
39     'django.contrib.staticfiles',  
40     'tempapp',  
41 ]
```

12. Add Static File Directory.

13. Create html file in apps folder.

```
D:\Django\project5\templates\apps\home.html (project5) - Sublime Text (UNREGISTERED)

FOLDERS
project5
  +-- project5
    +-- __pycache__
      +-- __init__.pyc
      +-- asgi.py
      +-- settings.py
      +-- urls.py
      +-- wsgi.py
    +-- static
      +-- css
        +-- style.css
      +-- images
        +-- image1.png
        +-- image2.png
        +-- image3.jpg
    +-- tempapp
  +-- templates
    +-- apps
      +-- home.html
  +-- db.sqlite3
  +-- manage.py

home.html
1  {% load static %}
2  
3  SYSTECH-GROUP
4  ![Image 1]({% static )
5  ![Image 2]({% static )
6  ![Image 3]({% static )
7  
8    

# Django Frame Work


9    

## SYSTECH GROUP


10   
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```

15. Run the server.

```
C:\Windows\system32\cmd.exe: python manage.py runserver  
D:\Django\project5>python manage.py runserver  
Watching for file changes with StatReloader  
Performing system checks...
```

System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for your app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.

January 21, 2022 - 00:34:31
Django version 4.0.1, using settings 'project5.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

OUTPUT:



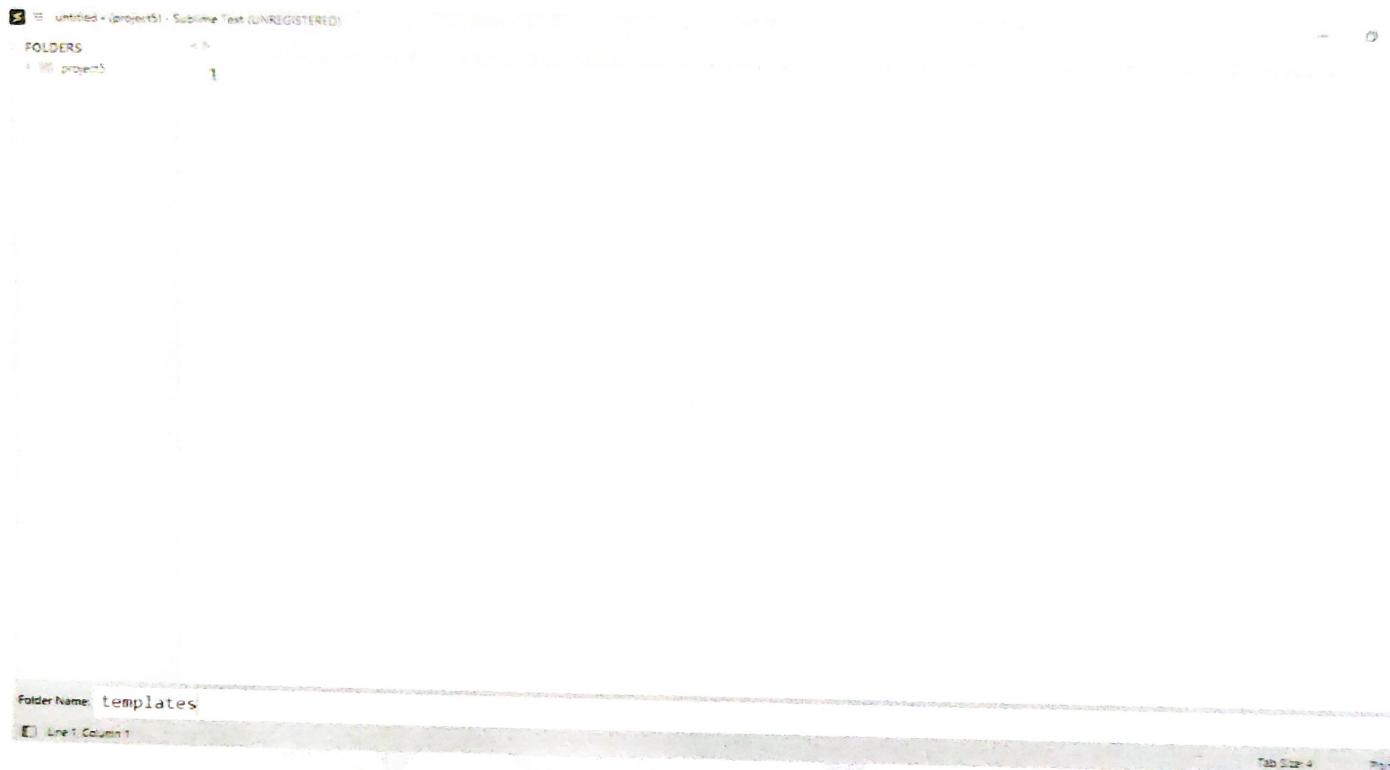
facebook



YouTube

1. PROJECT : CREATE A WEB APPLICATION WITH STATIC OPTIONS IMPORTING IMAGES AND CSS

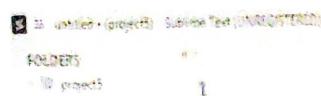
1. Create Project, create an Application.
2. Right click Project file, create Templates.



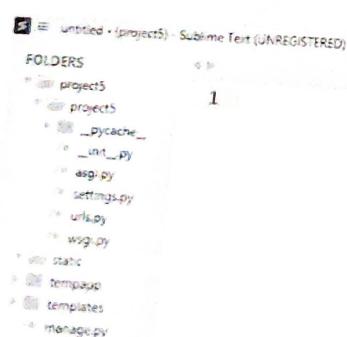
3. Right click template folder and create **apps** folder.



4. Right click project folder and create static folder.



5. Right click static folder and create images folder.



FolderName: images

6. **Copy and paste** the images in images folder.



7. Right click static folder and create **css folder**.



8. Right click css folder and create new file.



9. Save file as style.css.



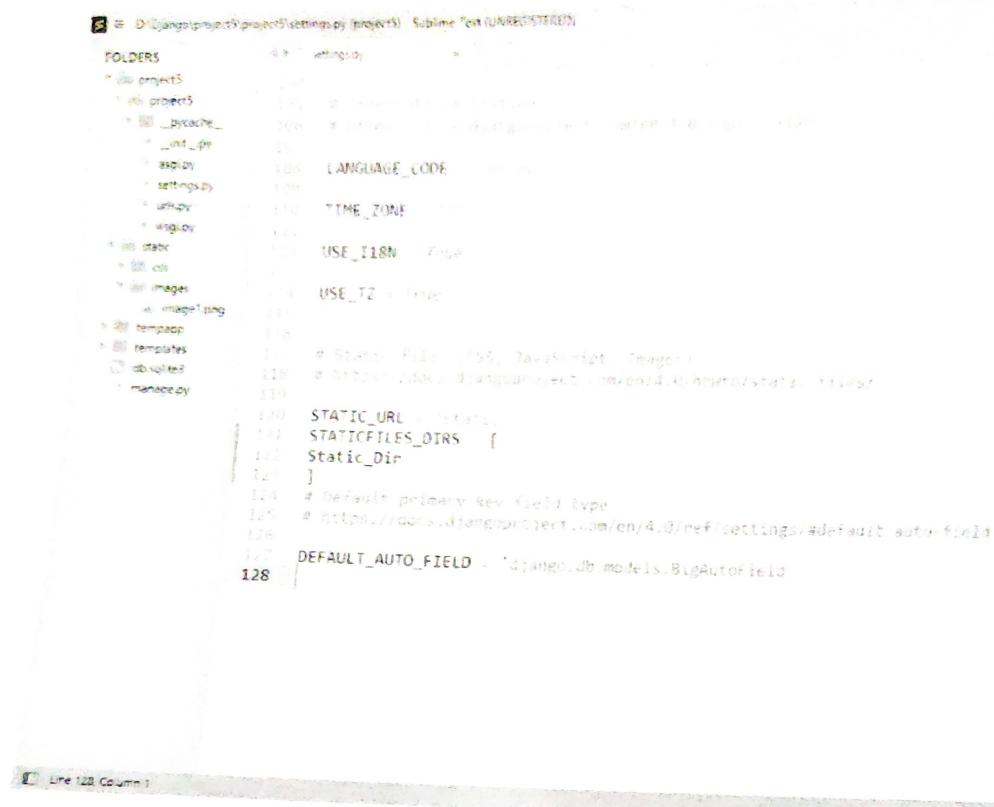
10. Create a style.css file.

11. Configure **Settings** file and add templates name and directories.

```
① D:\Django\project5\project5\settings.py • (project5) - Sublime Text (UNREGISTERED)
FOLDERS
② project5
③ projects
④ _pycache_
⑤ __init__.py
⑥ settings.py
⑦ urls.py
⑧ wsgi.py
static
⑨ css
⑩ images
⑪ images.png
tempapp
templates
⑫ staticfiles
manage.py

⑬ from pathlib import Path
⑭ import os
⑮ # Build paths inside the project like this: BASE_DIR / 'subdir'
⑯ BASE_DIR = Path(__file__).resolve().parent.parent
⑰ Temp_Dir = os.path.join(BASE_DIR, 'tempdir')
⑱ Static_Dir = os.path.join(BASE_DIR, 'static')
⑲
⑳ # Quick-start development settings - unsuitable for production
⑳ # See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/
⑳
⑳ # SECURITY WARNING: keep the secret key used in production secret!
⑳ SECRET_KEY = 'django-insecure-2l@#e@!d@&f@!g@!k@!l@!m@!n@!o@!p@!q@!r@!s@!t@!u@!v@!w@!x@!y@!z@!z'
⑳
⑳ # SECURITY WARNING: don't run with debug turned on in production!
⑳ DEBUG = True
⑳
⑳ ALLOWED_HOSTS = []
⑳
⑳
⑳ # Application definition
⑳
⑳ INSTALLED_APPS = [
```

12. Add Static File Directory.



```

D:\Django\project5\project5\settings.py (project) - Sublime Text (UNREGISTERED)

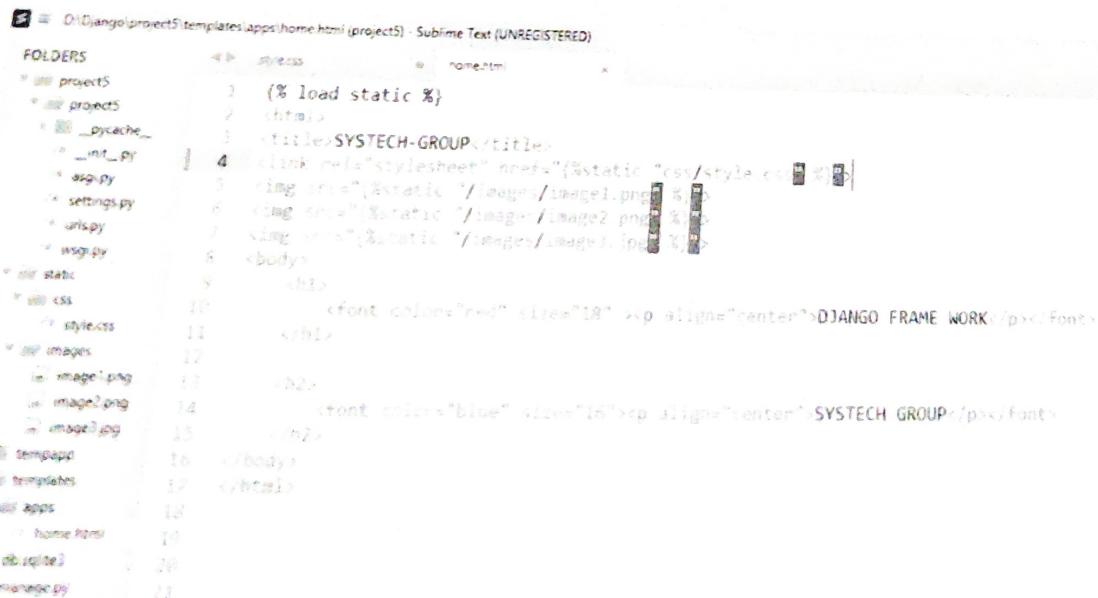
FOLDERS
* __pycache__
* __init__.py
* settings.py
* urls.py
* wsgi.py
* static
* __init__.py
* images
* __init__.py
* tempapp
* templates
* db.sqlite3
* manage.py

1 LANGUAGE_CODE = 'en-us'
2 TIME_ZONE = 'Asia/Kolkata'
3 USE_I18N = True
4 USE_TZ = False
5 STATICFILES_DIRS = [
6     'Static_Files',
7 ]
8 # Static files (CSS, JavaScript, Images)
9 # https://docs.djangoproject.com/en/4.0/howto/static-files/
10 STATIC_URL = 'static/'
11 STATICFILES_DIRS = [
12     Static_Dir
13 ]
14 # Default primary key field type
15 # https://docs.djangoproject.com/en/4.0/ref/settings/#default-auto-field
16 DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
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```

Line 128 Column 1

13. Create html file in apps folder.



```

D:\Django\project5\templates\apps\home.html (project) - Sublime Text (UNREGISTERED)

FOLDERS
* __pycache__
* __init__.py
* settings.py
* urls.py
* wsgi.py
* static
* css
* style.css
* images
* image1.png
* image2.png
* image3.jpg
* tempapp
* templates
* db.sqlite3
* manage.py

1 <% load static %>
2 <html>
3     <title>SYSTECH-GROUP</title>
4     <link rel="stylesheet" href="{% static "css/style.css" %}">
5     
6     
7     
8 </body>
9
10     <font color="red" size="18"><p align="center">DJANGO FRAME WORK</p></font>
11 </h1>
12
13 </h2>
14     <font color="blue" size="16"><p align="center">SYSTECH GROUP</p></font>
15 </h2>
16 </body>
17 </html>
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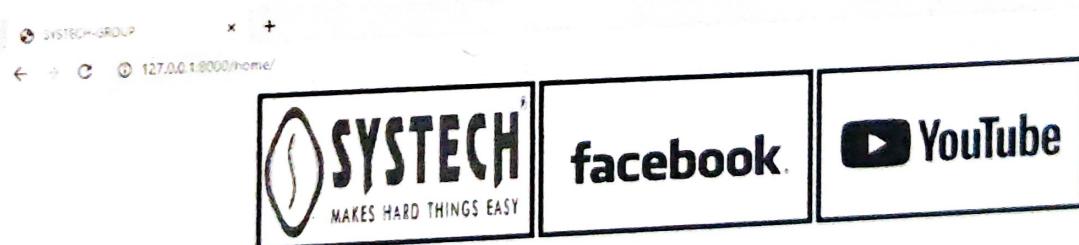
WEB DEVELOPMENT

16. Run the server.

```
C:\Windows\system32\cmd.exe python manage.py runserver
D:\Django\project5>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...
System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations f
or app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
January 21, 2022 - 00:34:31
Django version 4.0.1, using settings 'project5.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

OUTPUT:



DJANGO FRAME WORK

SYSTECH GROUP