

1. creating project

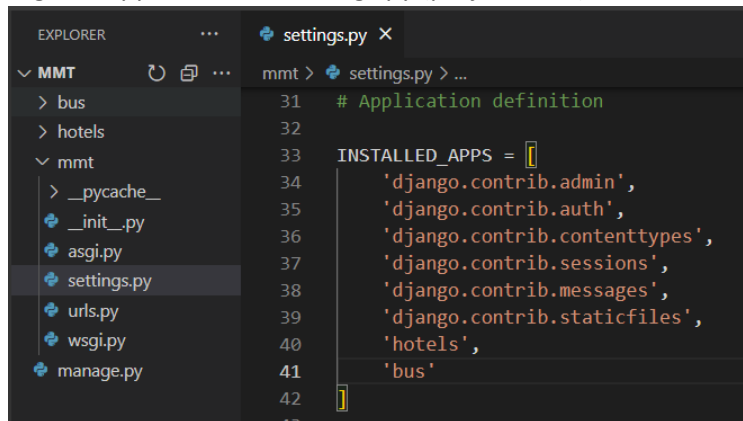
a. create project and open in vs code

```
\my notes\Django>django-admin startproject mmt  
  
\my notes\Django>cd mmt  
  
\my notes\Django\mmt>code .
```

b. open terminal of vs code and create application(s)

```
\my notes\Django\mmt>python manage.py startapp hotels  
  
\my notes\Django\mmt>python manage.py startapp bus
```

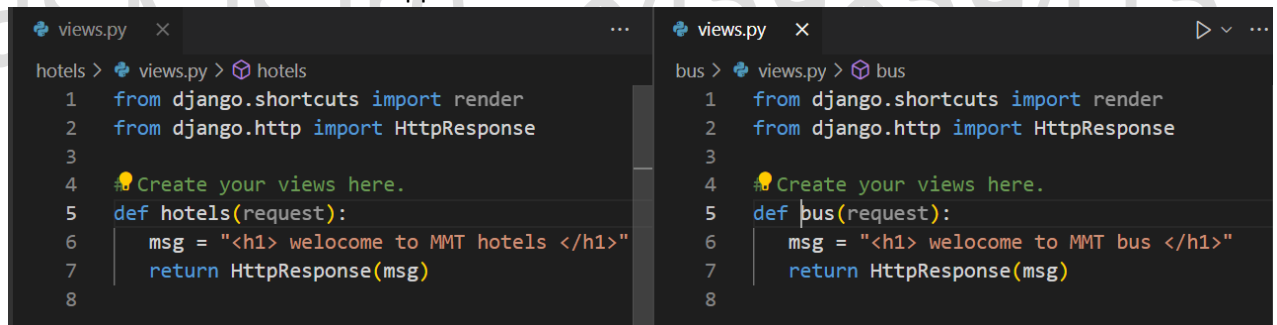
c. register applications in settings.py (project level)



The screenshot shows the VS Code interface with the Explorer pane on the left showing the project structure: MMT > bus, hotels, mmt > __pycache__, __init__.py, asgi.py, settings.py, urls.py, wsgi.py, manage.py. The settings.py file is open in the editor, showing the INSTALLED_APPS list. The list includes 'django.contrib.admin', 'django.contrib.auth', 'django.contrib.contenttypes', 'django.contrib.sessions', 'django.contrib.messages', 'django.contrib.staticfiles', 'hotels', and 'bus'.

```
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     'hotels',  
41     'bus',  
42 ]
```

d. create at least one view in each application



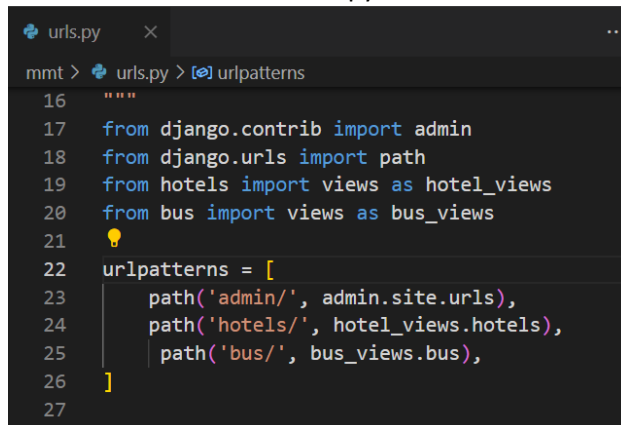
The screenshot shows two side-by-side VS Code windows. The left window shows the views.py file for the 'hotels' application. It contains the following code:

```
1 from django.shortcuts import render  
2 from django.http import HttpResponse  
3  
4 # Create your views here.  
5 def hotels(request):  
6     msg = "<h1> welcome to MMT hotels </h1>"  
7     return HttpResponse(msg)  
8
```

The right window shows the views.py file for the 'bus' application. It contains the following code:

```
1 from django.shortcuts import render  
2 from django.http import HttpResponse  
3  
4 # Create your views here.  
5 def bus(request):  
6     msg = "<h1> welcome to MMT bus </h1>"  
7     return HttpResponse(msg)  
8
```

e. create url for views in views.py



The screenshot shows the VS Code interface with the urls.py file open in the editor. The file contains the following code:

```
16 """  
17 from django.contrib import admin  
18 from django.urls import path  
19 from hotels import views as hotel_views  
20 from bus import views as bus_views  
21  
22 urlpatterns = [  
23     path('admin/', admin.site.urls),  
24     path('hotels/', hotel_views.hotels),  
25     path('bus/', bus_views.bus),  
26 ]  
27
```

f. runserver

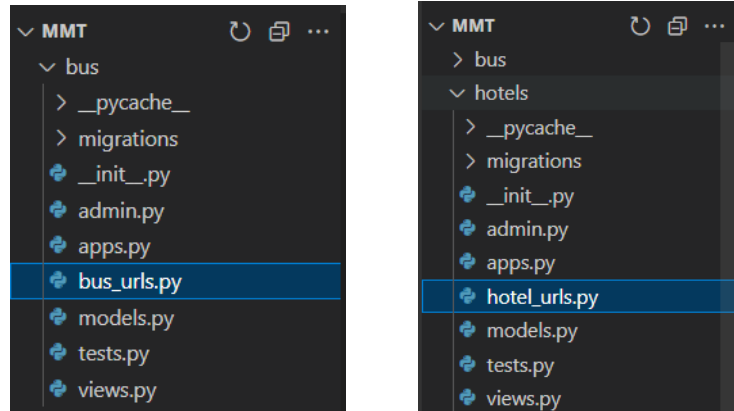
i. python manage.py runserver

ii. open browser and type localhost:8000/hotels or localhost:8000/bus

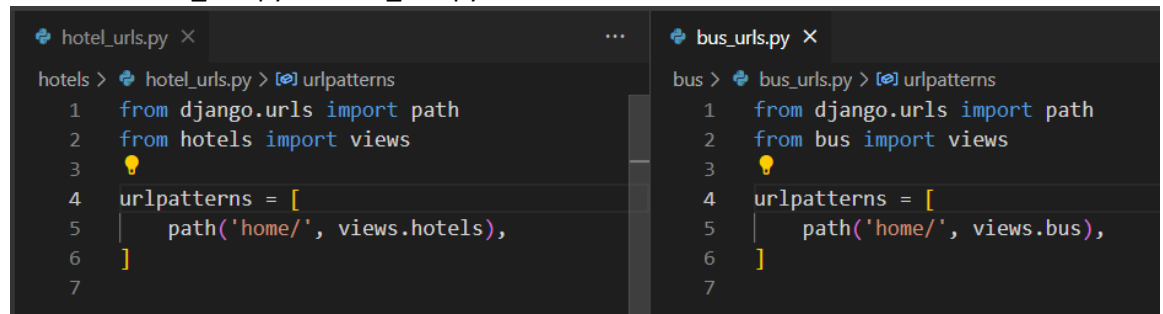
g. DONE!

2. Creating urls at application level

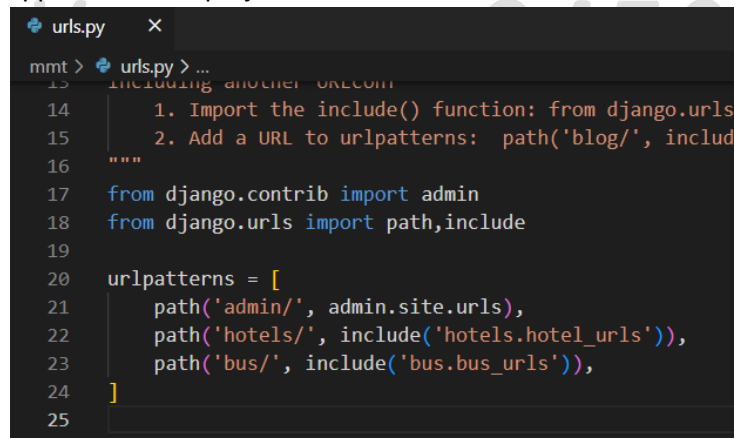
- a. create hotel_urls.py file in hotel and bus_urls.py file in bus application



- i.
b. Code for both file hotel_urls.py and bus_urls.py file



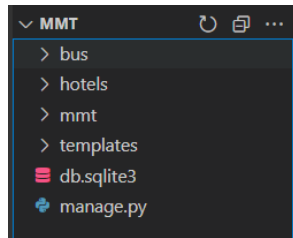
- i.
c. Include app level urls to project level



- i.
ii. Restart server
1. Now go to browser and type url
 2. localhost:8000/hotels/home
 3. localhost:8000/bus/home
- iii. DONE !

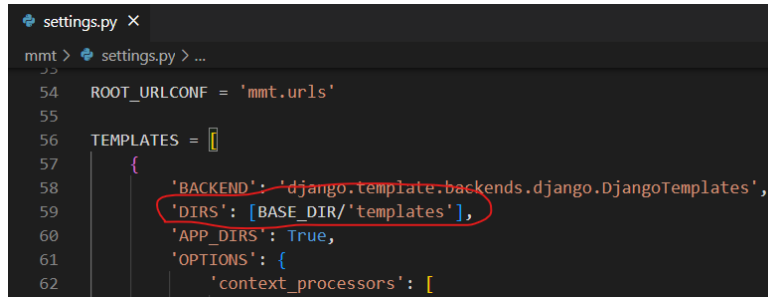
3. Sending response in templates

- a. Create templates folder at root level (project level)



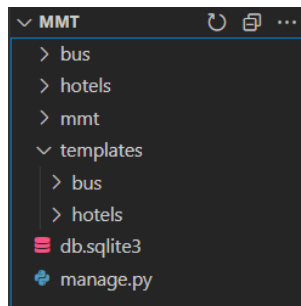
i.

- b. Register templates folder in settings.py



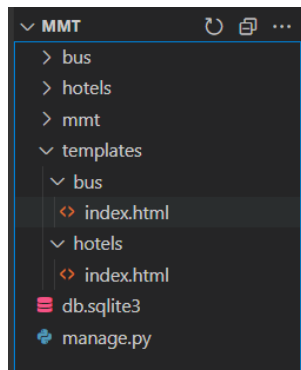
i.

- c. Create hotels and bus folders in templates folder



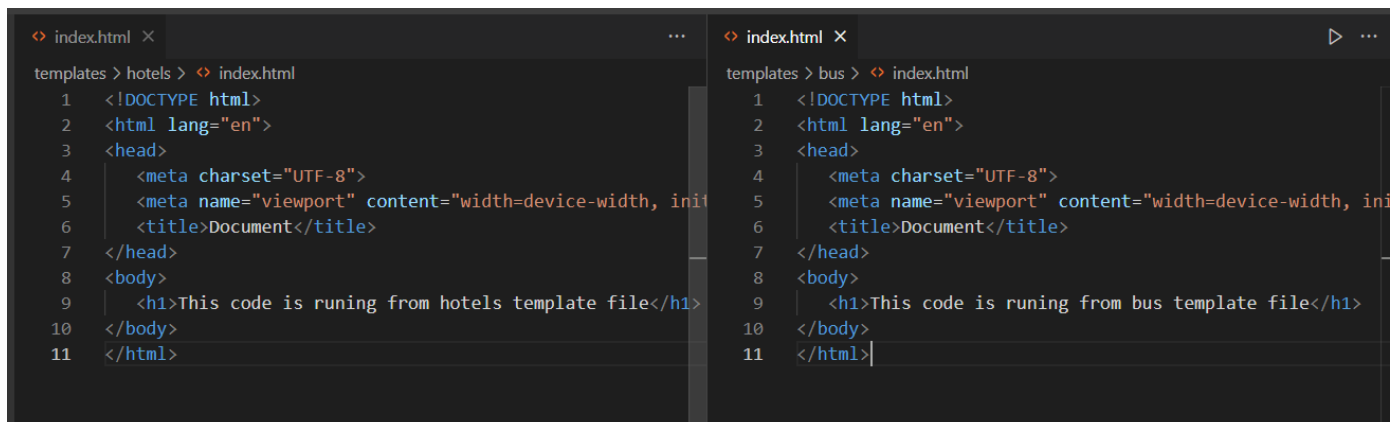
i.

- d. Create index.html in hotels folder and index.html in bus folder



i.

- e. Code for both index.html



f. Change code for views

```
views.py | hotels
1 from django.shortcuts import render
2 from django.http import HttpResponse
3
4 # Create your views here.
5 def hotels(request):
6     msg = "<h1> welcome to MMT hotels </h1>"
7     # return HttpResponse(msg)
8     return render(request, 'hotels/index.html')
9
```

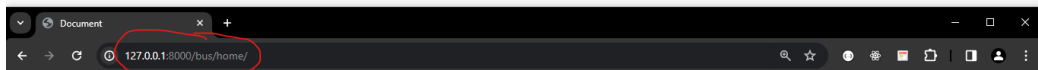
```
views.py | bus
1 from django.shortcuts import render
2 from django.http import HttpResponse
3
4 # Create your views here.
5 def bus(request):
6     msg = "<h1> welocome to MMT bus </h1>"
7     # return HttpResponse(msg)
8     return render(request, 'bus/index.html')
9
```

g. Restart server

h. Check output



This code is runing from hotels template file



This code is runing from bus template file

4. Sending data from view to template

a. We have to send data in dictionary format as context

i. In views.py of hotels

```
views.py | hotels
1 from django.shortcuts import render
2 from django.http import HttpResponse
3
4 # Create your views here.
5 def hotels(request):
6     msg = "<h1> welocome to MMT hotels </h1>"
7     # return HttpResponse(msg)
8     hotel_info = {"name": "Hotel Blue Town", "city": "Thane"}
9     return render(request, 'hotels/index.html', context=hotel_info)
10
```

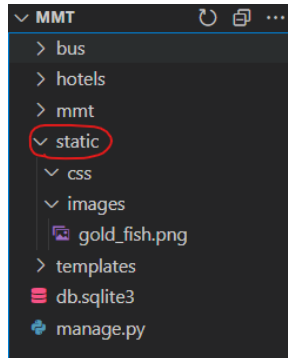
ii. Collect data in index.py of hotels

```
index.html | hotels
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Document</title>
7 </head>
8 <body>
9     <h1>This code is runing from hotels template file</h1>
10    <h2>Hotel Name : {{name}}</h2>
11    <h2>Hotel city : {{city}}</h2>
12 </body>
13 </html>
```

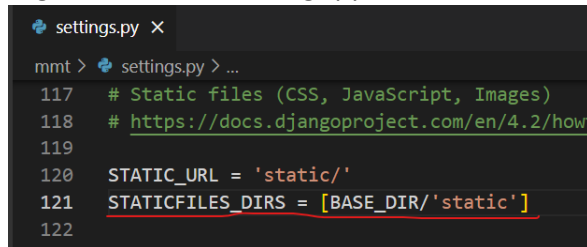
Check output - DONE !!

5. Working with static files

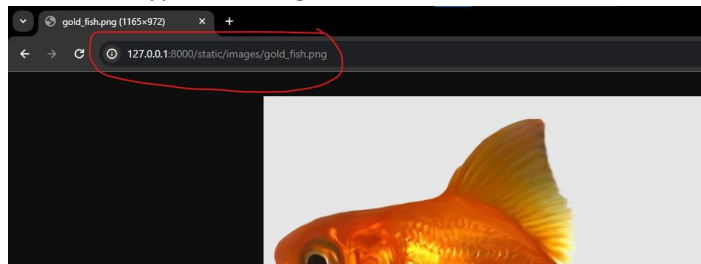
- Use to store images, videos, audios, css, js etc
- Create "static" folder at project level
 - Create images and css folder in it. Add some image in images folder



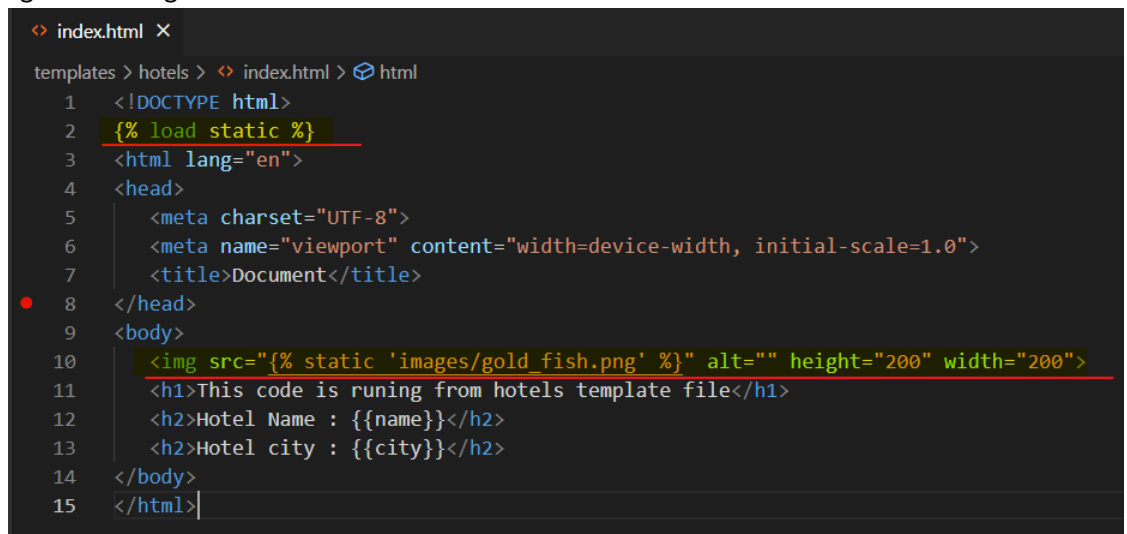
c. Configuring static folder in settings.py



d. Restart server and type following url in browser

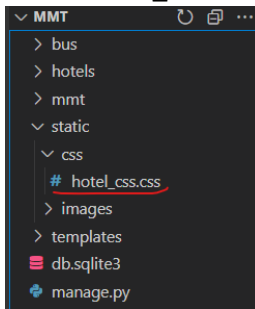


e. Displaying above image in index.html of hotels

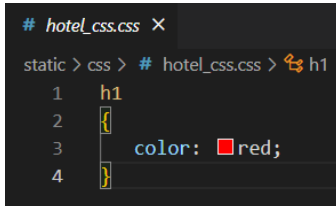


Working with css file -

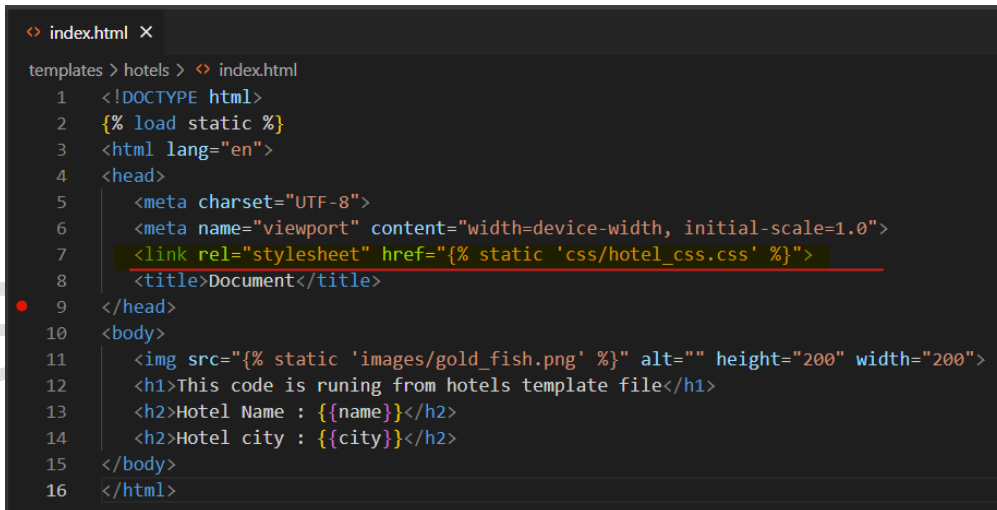
- f. Create hotel_css.css file in css folder



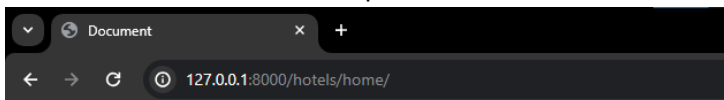
- g. Add some code in it



- h. Use this css file in index.html of hotels



- i. Run server and check final output



This code is runing from hotels template file

Hotel Name : Hotel Blue Town

Hotel city : Thane

6. DONE!!!!!!!!!!!!!!

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