

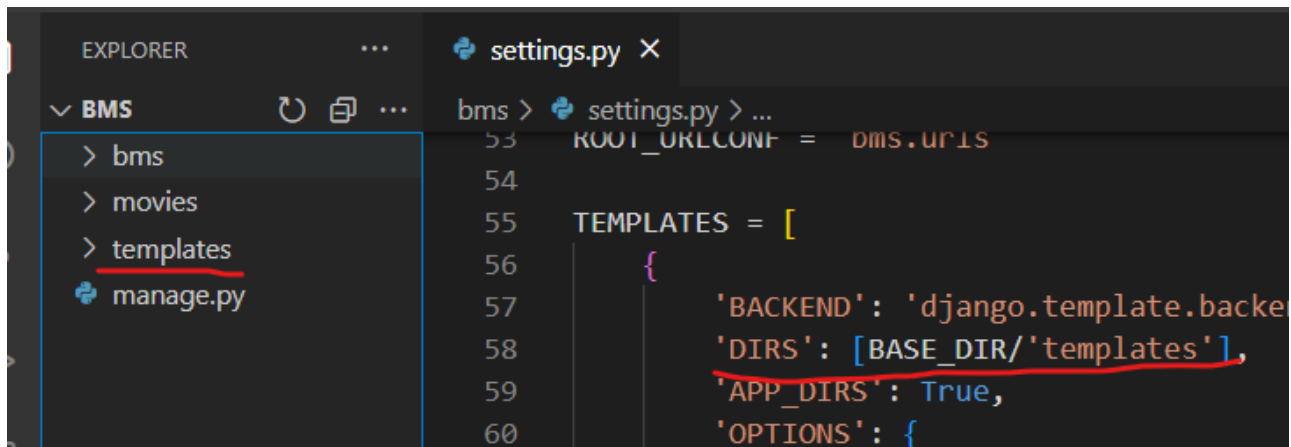
```
\DJANGO T417 203>django-admin startproject bms

\dj\DJANGO T417 203>cd bms

\dj\DJANGO T417 203\bms>python manage.py startapp movies

\dj\DJANGO T417 203\bms>code .
```

```
✓ INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'movies'
]
```



The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar shows a project named 'BMS' with subfolders 'bms', 'movies', and 'templates', and a file 'manage.py'. The 'templates' folder is selected. The main editor area shows the 'settings.py' file with the following code:

```
53 ROOT_URLCONF = 'bms.urls'
54
55 TEMPLATES = [
56     {
57         'BACKEND': 'django.template.backends.django.DjangoTemplates',
58         'DIRS': [BASE_DIR / 'templates'],
59         'APP_DIRS': True,
60         'OPTIONS': {
```

EXPLORER

... **movie\_home.html** X

templates > movies > **movie\_home.html** > html > body > table

```
7 </head>
8 <body>
9     <table border="1" cellspacing="0" cellpadding=10>
10         <thead>
11             <tr>
12                 <th>ID</th>
13                 <th>NAME</th>
14                 <th>RATING</th>
15                 <th>GENERE</th>
16             </tr>
17         </thead>
18         <tbody>
19             <tr>
20                 <td>1</td>
21                 <td>G0lmaal</td>
22                 <td>4.5</td>
23                 <td>Comedy</td>
24             </tr>
25         </tbody>
26     </table>
27 </body>
28 </html>
```

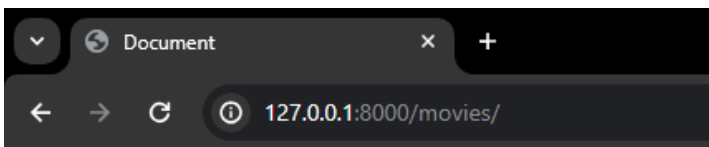
> OUTLINE  
> TIMELINE

**views.py** X

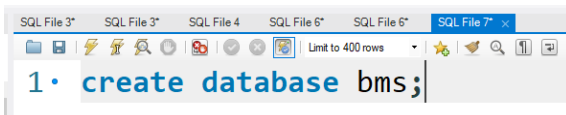
movies > views.py > ...

```
1 from django.shortcuts import render
2
3 # Create your views here.
4
5 def show_movies(request):
6     return render(request, 'movies/movie_home.html')
7
```

```
urls.py x
bms > urls.py > ...
15 | 2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
16 | """
17 | from django.contrib import admin
18 | from django.urls import path
19 | from movies import views
20 |
21 | urlpatterns = [
22 |     path('admin/', admin.site.urls),
23 |     path('movies/', views.show_movies),
24 | ]
25 |
```



Create database from workbench



Register database in settings.py

```
settings.py x
bms > settings.py > ...
77 | DATABASES = {
78 |     'default': {
79 |         'ENGINE': 'django.db.backends.mysql',
80 |         'NAME': 'bms',
81 |         'USER': 'root',
82 |         'PASSWORD': 'root',
83 |         'HOST': 'localhost',
84 |         'PORT': '3306',
85 |     }
86 | }
87 |
```

Start server

>python manage.py runserver

Create model in models.py

```
models.py X
movies > models.py > Movie
1 from django.db import models
2
3 # Create your models here.
4 class Movie(models.Model):
5     #movie_id int autoincrement primary key
6     movie_id = models.AutoField(primary_key=True)
7     #name varchar(50)
8     name = models.CharField(max_length=50)
9     #rating float/decimal
10    rating = models.FloatField()
11    #genre varchar(50)
12    genre = models.CharField(max_length=50)
13
```

Register model in admin.py

```
admin.py X
movies > admin.py
1 from django.contrib import admin
2 from movies.models import Movie
3
4 # Register your models here.
5 admin.site.register(Movie)
6
7
```

Makemigrations

Migrate

```
C:\TEJAS KASARE (Very imp folder)\my notes\Batch Wise\DJANGO T417 203\bms>python manage.py makemigrations 1
Migrations for 'movies':
  movies/migrations/0001_initial.py
    - Create model Movie

C:\TEJAS KASARE (Very imp folder)\my notes\Batch Wise\DJANGO T417 203\bms>python manage.py sqlmigrate movies 0001
--
-- Create model Movie
--
CREATE TABLE 'movies_movie' ('movie_id' integer AUTO_INCREMENT NOT NULL PRIMARY KEY, 'name' varchar(50) NOT NULL, 'rating' double precision NOT NULL,
0) NOT NULL);

C:\TEJAS KASARE (Very imp folder)\my notes\Batch Wise\DJANGO T417 203\bms>python manage.py migrate 2
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, movies, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying movies.0001_initial... OK
  Applying sessions.0001_initial... OK
```

Check tables in workbench

- 1• **create database** bms;
- 2• **use** bms;
- 3• **show tables;**
- 4• **desc** movies\_movie;

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content: [I/A](#)

	Field	Type	Null	Key	Default	Extra
►	movie_id	int	NO	PRI	NULL	auto_increment
	name	varchar(50)	NO		NULL	
	rating	double	NO		NULL	
	genre	varchar(50)	NO		NULL	