

Book my show

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Book my show

- Case Study on Bookmyshow
- Create a table name movies with following fields 1. Movie name 2. Heroname 3. Heroine name 4. Director 5. Release date 6. Rating. 7. Movie image
- Do the following operations
 - 1. Add movie information
 - 2. Show the movie information
 - 3. update movie rating
 - 4. delete one year old movies.

- FIRST UPGRADE PIP AND INSTALL DJANGO IN CMD

```
Administrator: Command Prompt

C:\Windows\system32>python -m pip install --upgrade pip
Requirement already satisfied: pip in c:\users\nanis\AppData\Local\Programs\Python\Python310\lib\site-packages (22.0.4)
Collecting pip
  Downloading pip-22.1.2-py3-none-any.whl (2.1 MB)
----- 2.1/2.1 MB 4.0 MB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 22.0.4
    Uninstalling pip-22.0.4:
      Successfully uninstalled pip-22.0.4
Successfully installed pip-22.1.2

C:\Windows\system32>pip install django
Collecting django
  Downloading Django-4.0.5-py3-none-any.whl (8.0 MB)
----- 8.0/8.0 MB 3.7 MB/s eta 0:00:00
Collecting asgiref<4,>=3.4.1
  Downloading asgiref-3.5.2-py3-none-any.whl (22 kB)
Collecting sqlparse>=0.2.2
  Downloading sqlparse-0.4.2-py3-none-any.whl (42 kB)
----- 42.3/42.3 kB 682.3 kB/s eta 0:00:00
Collecting tzdata
  Downloading tzdata-2022.1-py2.py3-none-any.whl (339 kB)
----- 339.5/339.5 kB 3.5 MB/s eta 0:00:00
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.5.2 django-4.0.5 sqlparse-0.4.2 tzdata-2022.1

C:\Windows\system32>d:
```

CREATE VITRUAL ENVIRONMENT

```
D:\Assignment-2>pip install virtualenv
Requirement already satisfied: virtualenv in c:\users\nanis\appdata\local\programs\python\python310\lib\site-packages (20.14.1)
Requirement already satisfied: platformdirs<3,>=2 in c:\users\nanis\appdata\local\programs\python\python310\lib\site-packages (from virtualenv) (2.5.2)
Requirement already satisfied: six<2,>=1.9.0 in c:\users\nanis\appdata\local\programs\python\python310\lib\site-packages (from virtualenv) (1.16.0)
Requirement already satisfied: distlib<1,>=0.3.1 in c:\users\nanis\appdata\local\programs\python\python310\lib\site-packages (from virtualenv) (0.3.4)
Requirement already satisfied: filelock<4,>=3.2 in c:\users\nanis\appdata\local\programs\python\python310\lib\site-packages (from virtualenv) (3.7.1)

D:\Assignment-2>virtualenv test
created virtual environment CPython3.10.5.final.0-64 in 2508ms
  creator CPython3Windows(dest=D:\Assignment-2\test, clear=False, no_vcs_ignore=False, global=False)
  seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy, app_data_dir=C:\Users\NANIS\AppData\Local\pypa\virtualenv)
    added seed packages: pip==22.1.2, setuptools==62.3.4, wheel==0.37.1
  activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator
```


INSTALL DJANGO IN TEST(environment) FOLDER AND CREATE PROJECT AND CREATE APP IN MOVIEPROJECT FOLDER

C:\> Administrator: Command Prompt

```
(test) D:\Assignment-2\test>pip install django
Collecting django
  Using cached Django-4.0.5-py3-none-any.whl (8.0 MB)
Collecting tzdata
  Using cached tzdata-2022.1-py2.py3-none-any.whl (339 kB)
Collecting sqlparse>=0.2.2
  Using cached sqlparse-0.4.2-py3-none-any.whl (42 kB)
Collecting asgiref<4,>=3.4.1
  Using cached asgiref-3.5.2-py3-none-any.whl (22 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.5.2 django-4.0.5 sqlparse-0.4.2 tzdata-2022.1

(test) D:\Assignment-2\test>django-admin startproject movieproject

(test) D:\Assignment-2\test>cd movieproject

(test) D:\Assignment-2\test\movieproject>python manage.py startapp mvapp
```

ADD APP NAME IN SETTINGS.PY

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

Convert model class into database specified sql code

Administrator: Command Prompt

```
(test) D:\Assignment-2\test\movieproject>python manage.py makemigrations
```

```
Migrations for 'mvapp':
```

```
  mvapp\migrations\0001_initial.py
```

```
    - Create model mshow
```

```
(test) D:\Assignment-2\test\movieproject>python manage.py sqlmigrate mvapp 0001
```

```
BEGIN;
```

```
--
```

```
-- Create model mshow
```

```
--
```

```
CREATE TABLE "mvapp_mshow" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "Moviename" varchar(150) NOT NULL, "Heroname" varchar(150) NOT NULL, "Heroiename" varchar(150) NOT NULL, "Director" varchar(150) NOT NULL, "Releasedate" date NOT NULL, "rating" real NOT NULL, "image" varchar(1000) NOT NULL);
```

```
COMMIT;
```

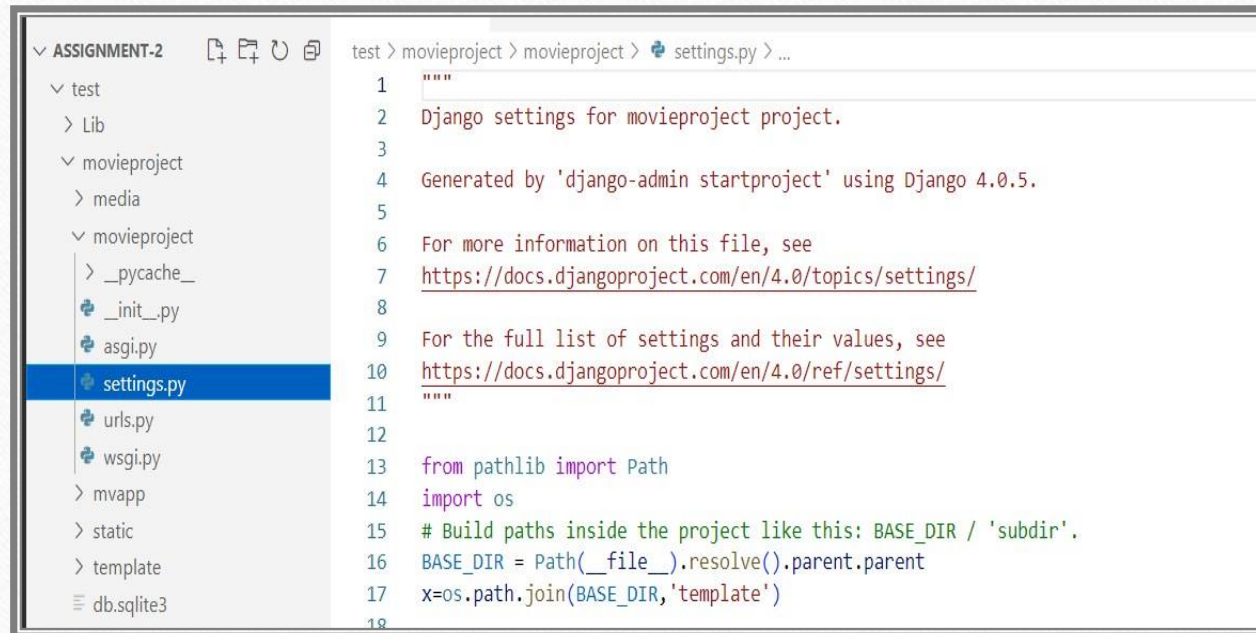
```
(test) D:\Assignment-2\test\movieproject>python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, mvapp, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying 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 mvapp.0001_initial... OK
  Applying sessions.0001_initial... OK
```


Convert a superuser to login to admin interface

```
(test) D:\Assignment-2\test\movieproject>python manage.py createsuperuser
Username (leave blank to use 'nanis'): 1601-20-733-094
Email address: ashishgolla2003@gmail.com
Password:
Password (again):
This password is too short. It must contain at least 8 characters.
Bypass password validation and create user anyway? [y/N]: y
Superuser created successfully.

(test) D:\Assignment-2\test\movieproject>
```

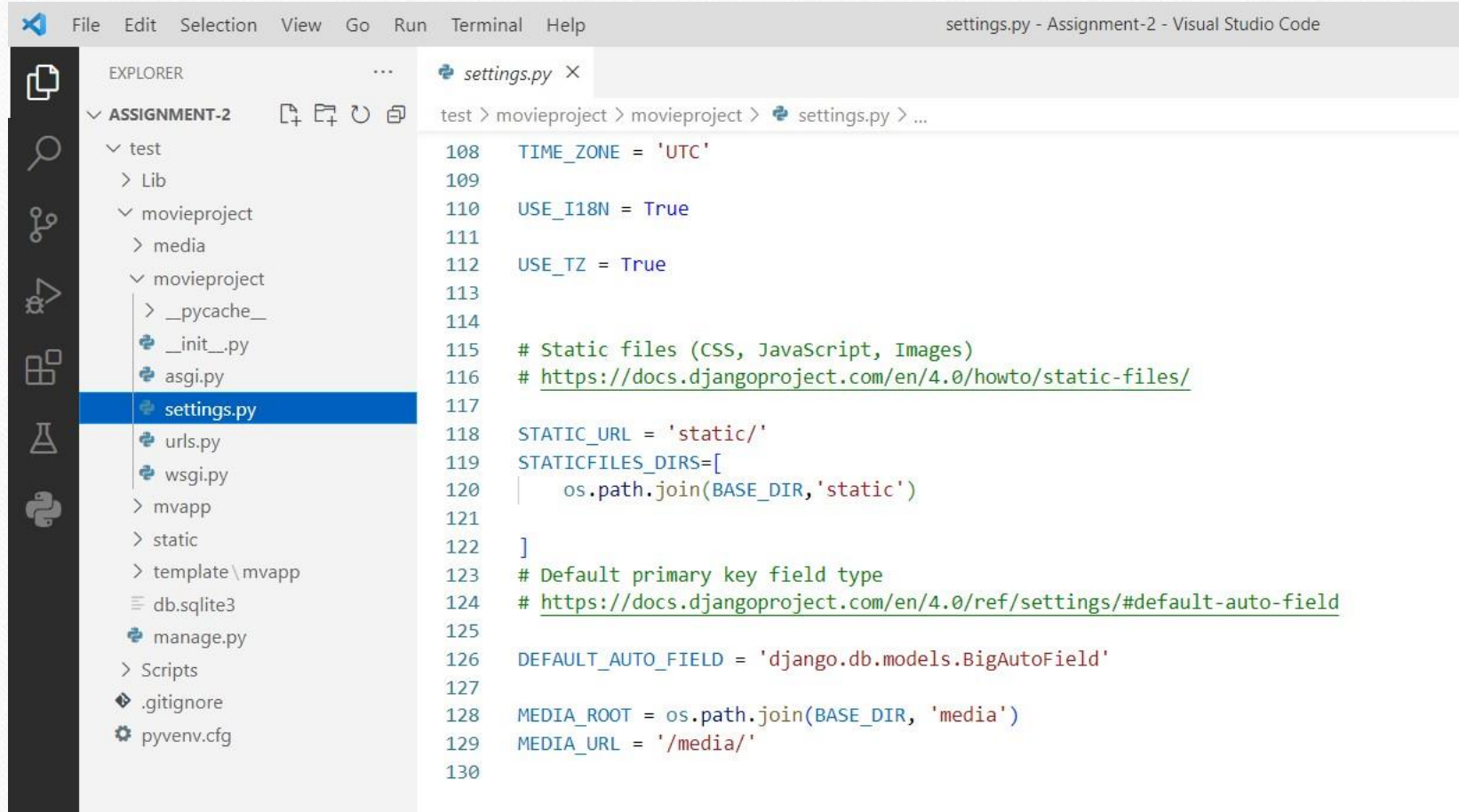
CREATE TEMPLATES FOLDER AND ADD PATH IN SETTINGS.PY



```
test > movieproject > movieproject > settings.py > ...
1  """
2  Django settings for movieproject project.
3
4  Generated by 'django-admin startproject' using Django 4.0.5.
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
13 from pathlib import Path
14 import os
15
16 # Build paths inside the project like this: BASE_DIR / 'subdir'.
17 BASE_DIR = Path(_file__).resolve().parent.parent
18 x=os.path.join(BASE_DIR,'template')
```

```
TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [x],
        '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',
            ],
        },
    ],
]
```

CREATE STATIC AND MEDIA FOLDER AND PATH IN SETTINGS.PY



```
File Edit Selection View Go Run Terminal Help settings.py - Assignment-2 - Visual Studio Code

EXPLORER
ASSIGNMENT-2
├── test
│   ├── Lib
│   ├── movieproject
│   │   ├── media
│   │   ├── movieproject
│   │   │   ├── __pycache__
│   │   │   ├── __init__.py
│   │   │   ├── asgi.py
│   │   │   └── settings.py
│   │   ├── urls.py
│   │   ├── wsgi.py
│   │   ├── mvapp
│   │   ├── static
│   │   └── template\mvapp
│   ├── db.sqlite3
│   ├── manage.py
│   └── Scripts
├── .gitignore
└── pyvenv.cfg

test > movieproject > movieproject > settings.py > ...
108 TIME_ZONE = 'UTC'
109
110 USE_I18N = True
111
112 USE_TZ = True
113
114
115 # Static files (CSS, JavaScript, Images)
116 # https://docs.djangoproject.com/en/4.0/howto/static-files/
117
118 STATIC_URL = 'static/'
119 STATICFILES_DIRS=[
120     os.path.join(BASE_DIR, 'static')
121 ]
122
123 # Default primary key field type
124 # https://docs.djangoproject.com/en/4.0/ref/settings/#default-auto-field
125
126 DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
127
128 MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
129 MEDIA_URL = '/media/'
130
```

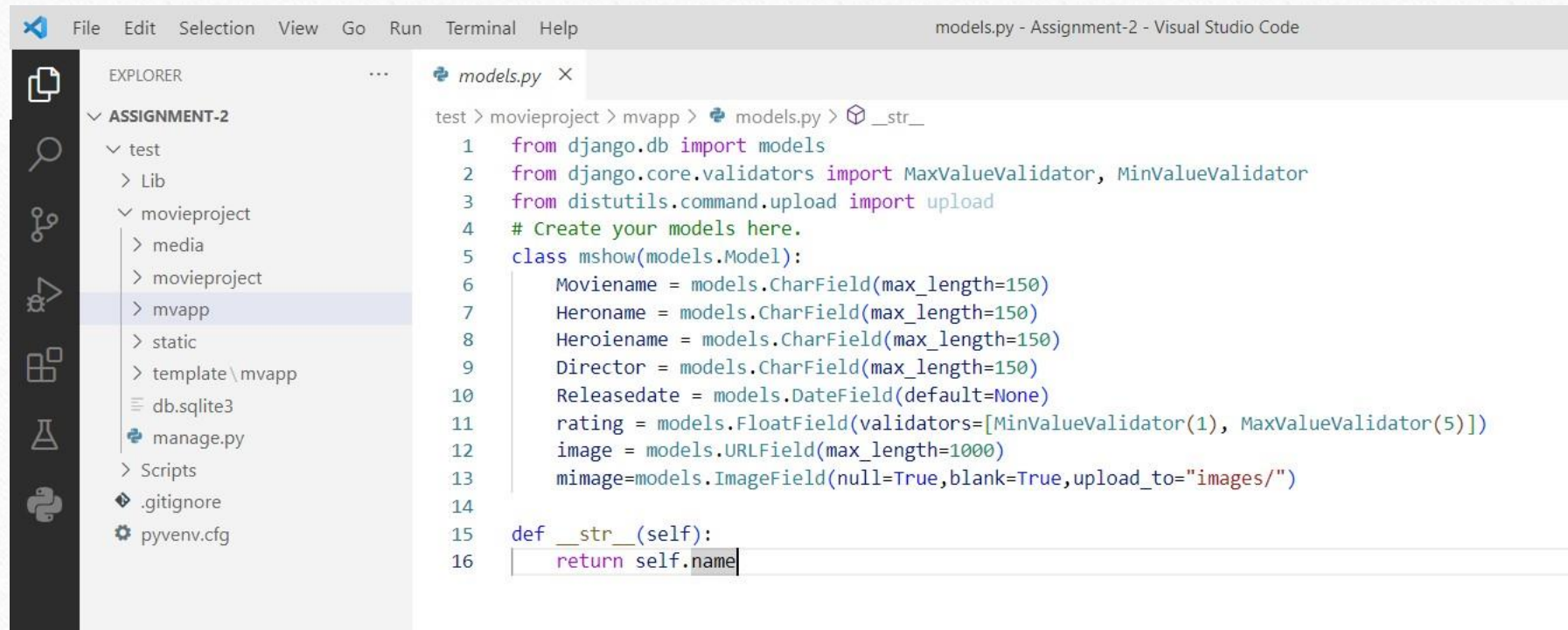

ADD FOLLOWING LINKS IN URL.PY

The image shows a Visual Studio Code editor window with the following components:

- Top Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help. The title bar reads "urls.py - Assignment-2 - Visual Studio Code".
- EXPLORER (Left Panel):** Shows the project structure:
 - ASSIGNMENT-2
 - test
 - Lib
 - movieproject
 - media
 - movieproject
 - __pycache__
 - __init__.py
 - asgi.py
 - settings.py
 - urls.py (selected)
 - wsgi.py
 - mvapp
 - static
 - template
 - db.sqlite3
 - manage.py
 - Scripts
 - .gitignore
 - pyenv.cfg
- Editor (Main Area):** Displays the content of `urls.py`:

```
test > movieproject > movieproject > urls.py > ...
1  """movieproject URL Configuration
2
3  The `urlpatterns` list routes URLs to views. For more information please see:
4  |     https://docs.djangoproject.com/en/4.0/topics/http/urls/
5  |     Examples:
6  |
7  |     1. Add an import: from my_app import views
8  |     2. Add a URL to urlpatterns: path('', views.home, name='home')
9  |
10 |     Class-based views
11 |     1. Add an import: from other_app.views import Home
12 |     2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
13 |
14 |     Including another URLconf
15 |     1. Import the include() function: from django.urls import include, path
16 |     2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
17 |
18 |
19 |
20 |
21 |
22 |
23 |
24 |
25 |
26 |
27 |
28 |
29 |
30 |
```

MODELS.PY



```
File Edit Selection View Go Run Terminal Help models.py - Assignment-2 - Visual Studio Code
```

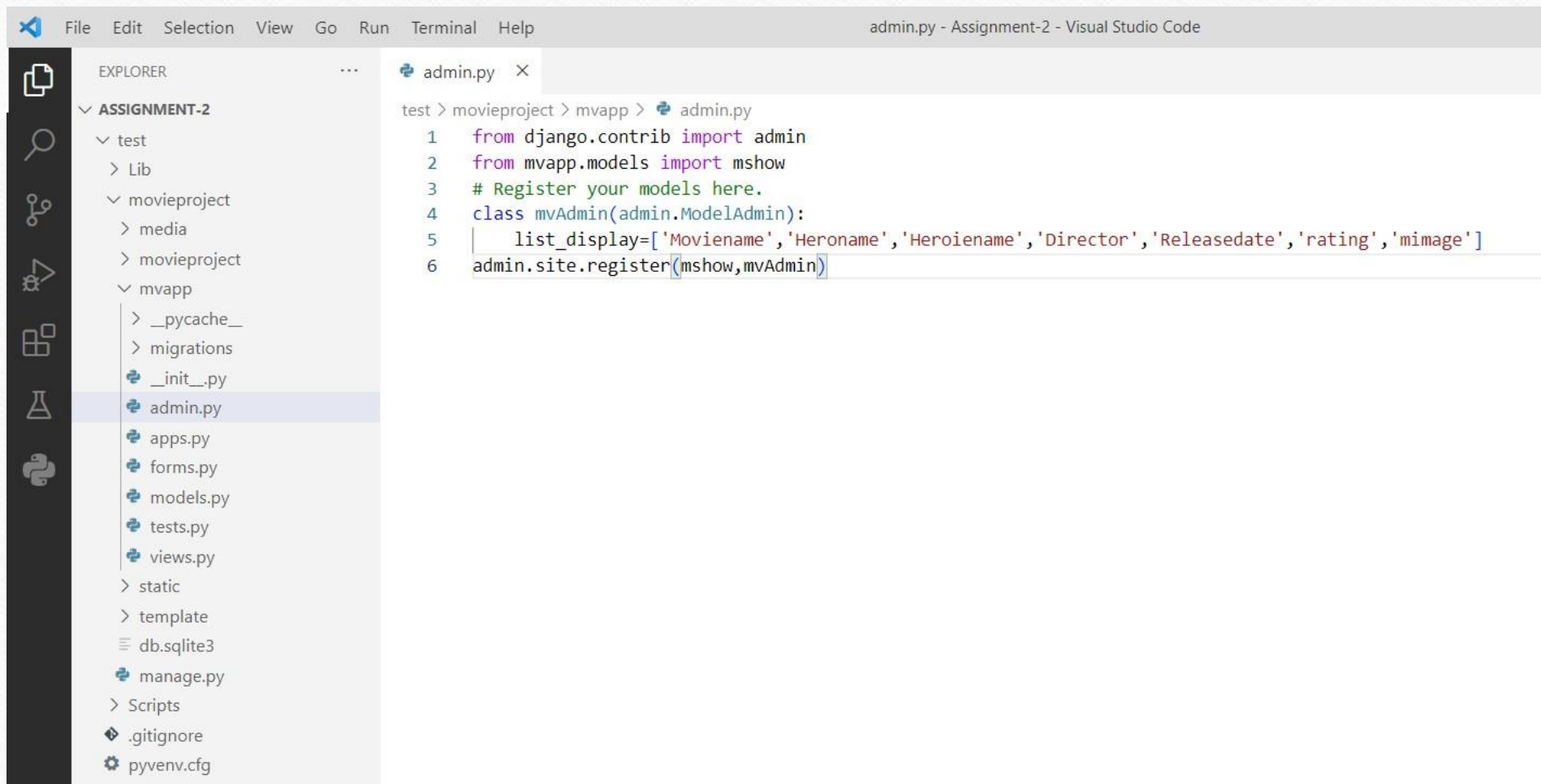
EXPLORER

- ASSIGNMENT-2
 - test
 - Lib
 - movieproject
 - media
 - movieproject
 - mvapp
 - static
 - template\mvapp
 - db.sqlite3
 - manage.py
 - Scripts
 - .gitignore
 - pyenv.cfg

models.py

```
test > movieproject > mvapp > models.py > __str__
1 from django.db import models
2 from django.core.validators import MaxValueValidator, MinValueValidator
3 from distutils.command.upload import upload
4 # Create your models here.
5 class mshow(models.Model):
6     Moviename = models.CharField(max_length=150)
7     Heroname = models.CharField(max_length=150)
8     Heroiename = models.CharField(max_length=150)
9     Director = models.CharField(max_length=150)
10    Releasedate = models.DateField(default=None)
11    rating = models.FloatField(validators=[MinValueValidator(1), MaxValueValidator(5)])
12    image = models.URLField(max_length=1000)
13    mimage=models.ImageField(null=True,blank=True,upload_to="images/")
14
15    def __str__(self):
16        return self.name
```

ADMIN.PY



The image shows a screenshot of the Visual Studio Code editor interface. The title bar at the top reads "admin.py - Assignment-2 - Visual Studio Code". The menu bar includes "File", "Edit", "Selection", "View", "Go", "Run", "Terminal", and "Help".

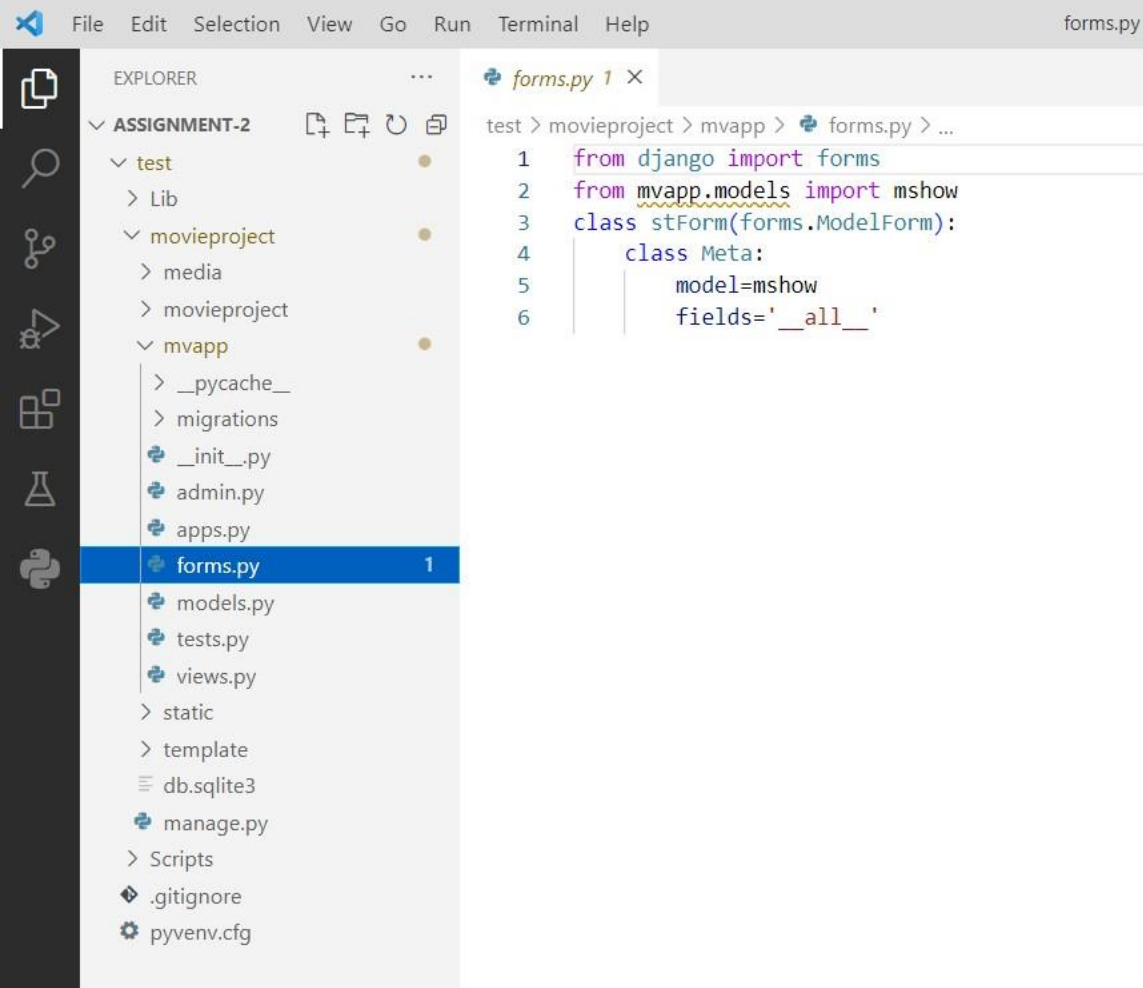
On the left is the Explorer sidebar, showing a file tree for a project named "ASSIGNMENT-2". The tree structure is as follows:

- ASSIGNMENT-2
 - test
 - Lib
 - movieproject
 - media
 - movieproject
 - mvapp
 - __pycache__
 - migrations
 - __init__.py
 - admin.py** (selected)
 - apps.py
 - forms.py
 - models.py
 - tests.py
 - views.py
 - static
 - template
 - db.sqlite3
 - manage.py
 - Scripts
 - .gitignore
 - pyvenv.cfg

The main editor area displays the content of "admin.py" with the following code:

```
test > movieproject > mvapp > admin.py
1  from django.contrib import admin
2  from mvapp.models import mshow
3  # Register your models here.
4  class mvAdmin(admin.ModelAdmin):
5      list_display=['Moviename','Heroname','Heroiename','Director','Releasedate','rating','mimage']
6  admin.site.register(mshow,mvAdmin)
```

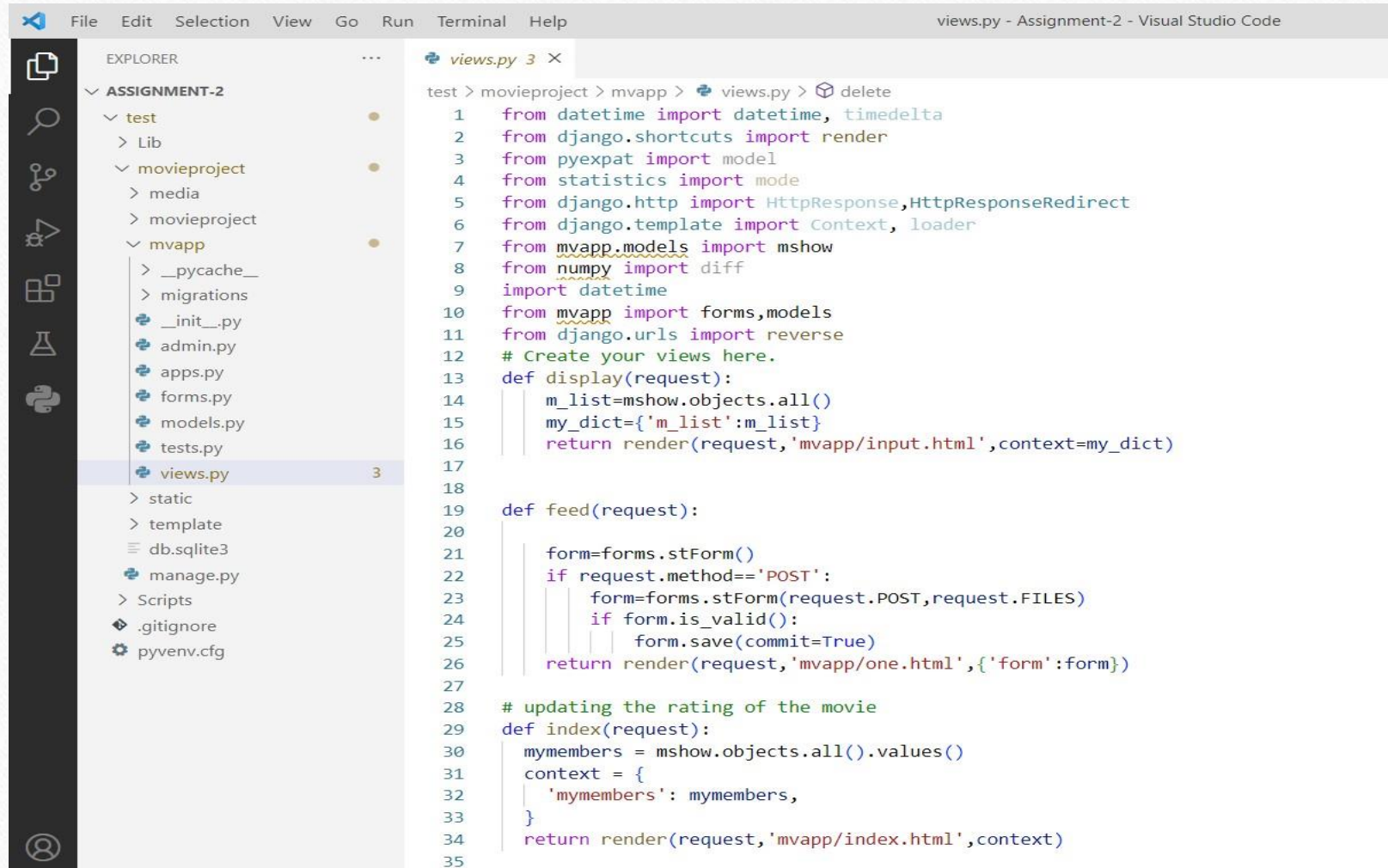

FORMS.PY



The screenshot shows a code editor interface with a menu bar (File, Edit, Selection, View, Go, Run, Terminal, Help) and a tab labeled 'forms.py'. The left sidebar displays the 'EXPLORER' view of a project structure. The project is named 'ASSIGNMENT-2' and contains several subdirectories: 'test', 'Lib', 'movieproject', and 'mvapp'. The 'mvapp' directory is expanded, showing files like '__pycache__', 'migrations', '__init__.py', 'admin.py', 'apps.py', 'forms.py' (selected), 'models.py', 'tests.py', 'views.py', 'static', 'template', 'db.sqlite3', 'manage.py', 'Scripts', '.gitignore', and 'pyvenv.cfg'. The main editor area shows the content of 'forms.py' with the following code:

```
test > movieproject > mvapp > forms.py > ...
1  from django import forms
2  from mvapp.models import mshow
3  class stForm(forms.ModelForm):
4      class Meta:
5          model=mshow
6          fields='__all__'
```

VIEWS.PY

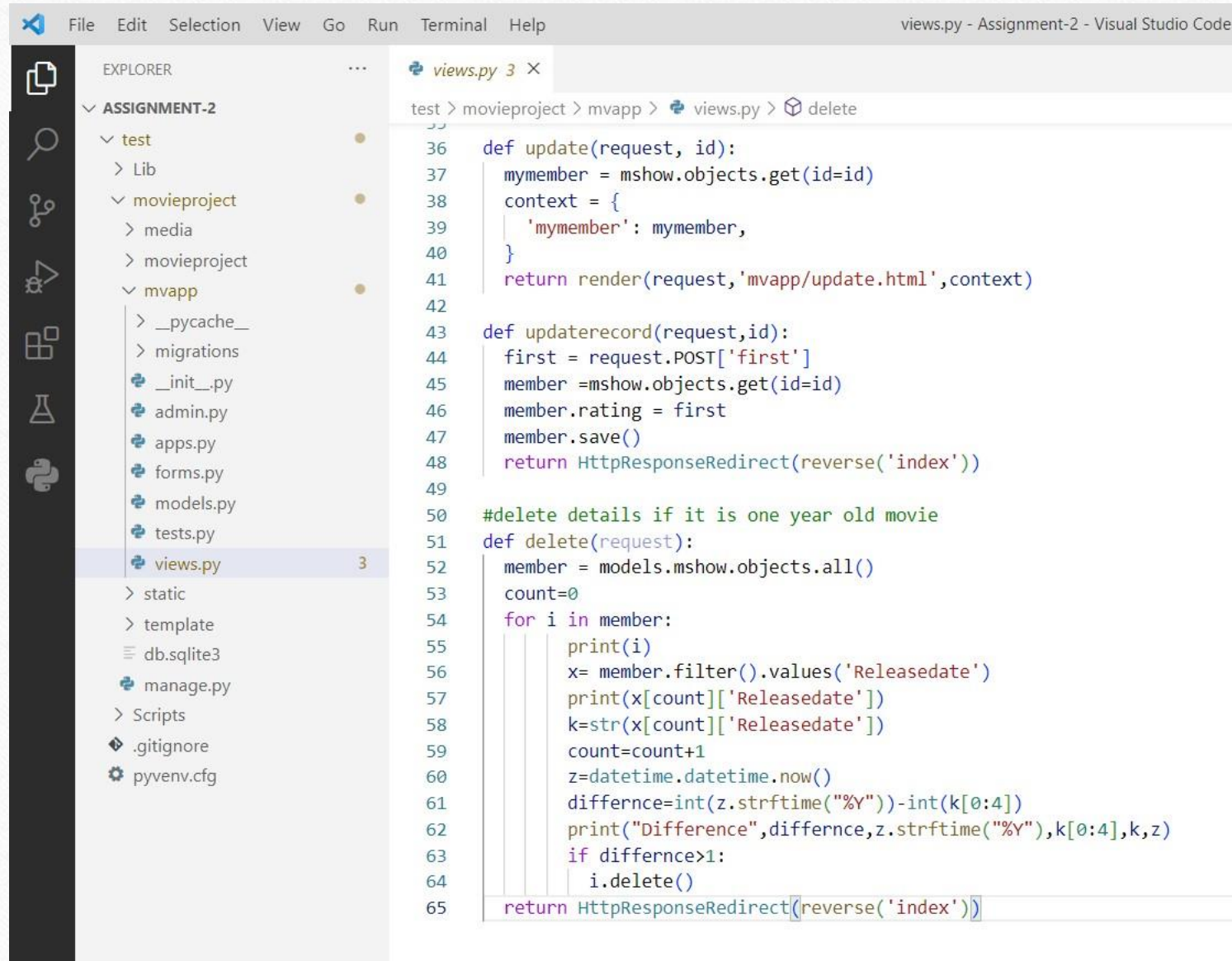


The image shows a Visual Studio Code editor window with a project named "ASSIGNMENT-2". The Explorer sidebar on the left shows the project structure, with "views.py" selected under the "mvapp" directory. The main editor area displays the code for "views.py". The code includes imports for datetime, timedelta, render, model, mode, HttpResponseRedirect, Context, loader, mshow, diff, and forms. It defines two view functions: "display" and "feed". The "display" function retrieves all objects from the "mshow" model and renders a template. The "feed" function handles POST requests, validates the form, and saves it. There is also a comment about updating the rating of the movie and an "index" function that retrieves all values from the "mshow" model and renders a template.

```
File Edit Selection View Go Run Terminal Help views.py - Assignment-2 - Visual Studio Code

EXPLORER
  ASSIGNMENT-2
    test
    Lib
    movieproject
    media
    movieproject
    mvapp
      __pycache__
      migrations
      __init__.py
      admin.py
      apps.py
      forms.py
      models.py
      tests.py
      views.py 3
    static
    template
    db.sqlite3
    manage.py
    Scripts
    .gitignore
    pyvenv.cfg

views.py 3 X
test > movieproject > mvapp > views.py > delete
1  from datetime import datetime, timedelta
2  from django.shortcuts import render
3  from pyexpat import model
4  from statistics import mode
5  from django.http import HttpResponseRedirect, HttpResponseRedirect
6  from django.template import Context, loader
7  from mvapp.models import mshow
8  from numpy import diff
9  import datetime
10 from mvapp import forms, models
11 from django.urls import reverse
12 # Create your views here.
13 def display(request):
14     m_list=mshow.objects.all()
15     my_dict={'m_list':m_list}
16     return render(request,'mvapp/input.html',context=my_dict)
17
18
19 def feed(request):
20
21     form=forms.stForm()
22     if request.method=='POST':
23         form=forms.stForm(request.POST,request.FILES)
24         if form.is_valid():
25             form.save(commit=True)
26     return render(request,'mvapp/one.html',{'form':form})
27
28 # updating the rating of the movie
29 def index(request):
30     mymembers = mshow.objects.all().values()
31     context = {
32         'mymembers': mymembers,
33     }
34     return render(request,'mvapp/index.html',context)
35
```

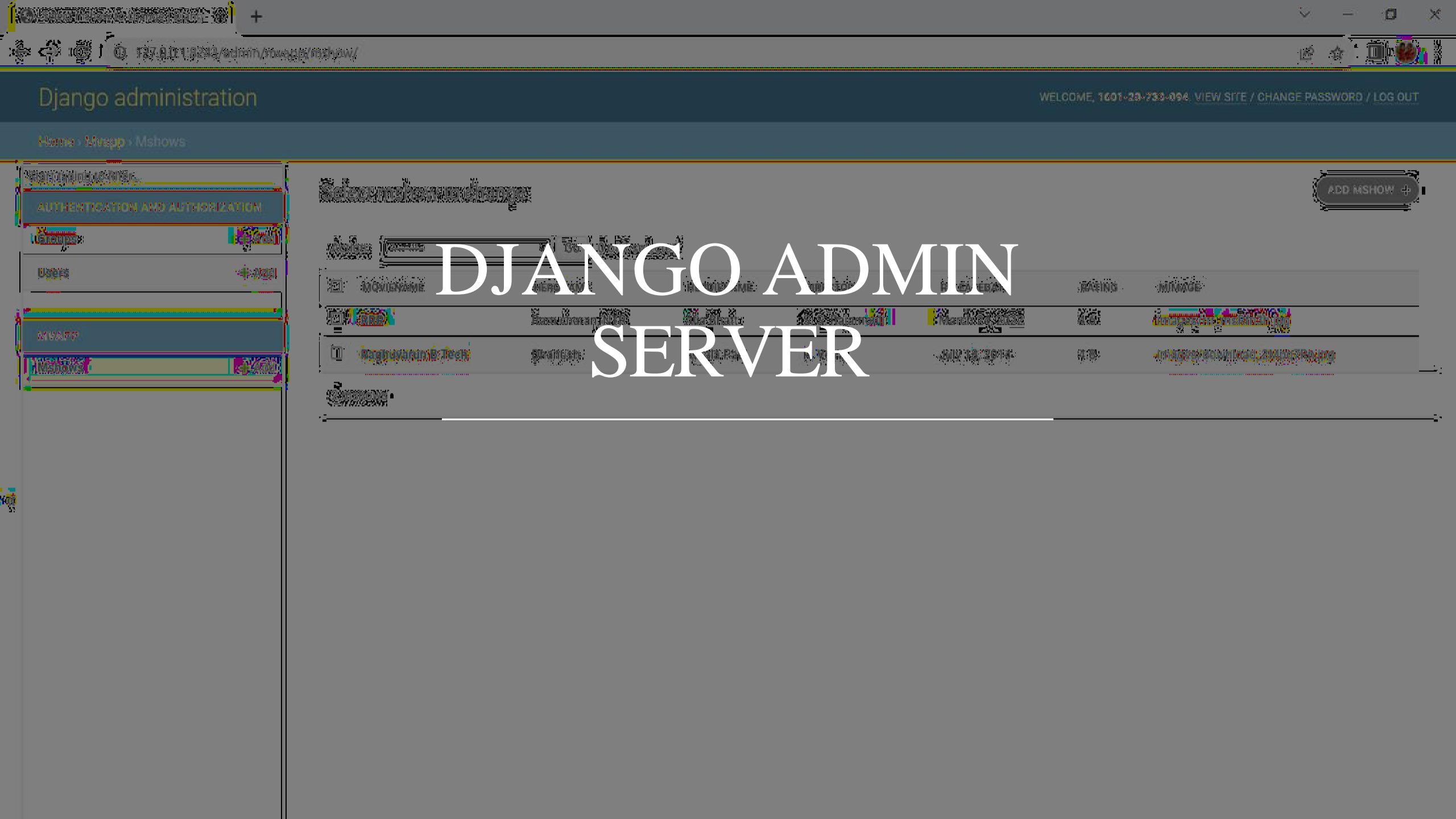


OUTPUT

RUNSERVER

```
D:\Assignment-2\test\movieproject>python manage.py runserver 8243
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
June 21, 2022 - 21:53:21
Django version 4.0.5, using settings 'movieproject.settings'
Starting development server at http://127.0.0.1:8243/
Quit the server with CTRL-BREAK.
```



DJANGO ADMIN
SERVER

ADD CONTENT TO MOVIE DATABASE

ADD CONTENT

Movie name:

Hero name:

Heroien name:

Director:



Releasedate:

Rating:

Image:

Mimage:

SUBMIT

BOOK MY SHOW						
Movie	Hero	Heroine	Director	Release Date	Rating	Image
Raghuvarun B Tech	Dhanush	Amala Paul	R. Velraj	July 18, 2014	4.8	
RRR	Ram charan, NTR	Alia Bhatt	S. S. Rajamouli	March 24, 2022	4.6	

SHOW MOVIE
INFORMATION

UPDATING AND DELETING RECORD

S.NO	MOVIE NAME	RATING	DELETE
7	Raghuvarun B Tech	4.8	delete
8	RRR	4.6	delete

UPDATE AND
DELETE

UPDATE RATING

MOVIE NAME

POLYMER LETTERS

RATING

UPDATE

Submit

SEARCH ENGINE

AUTHENTICATION AND AUTHORIZATION

Groups

Users

MVAPP

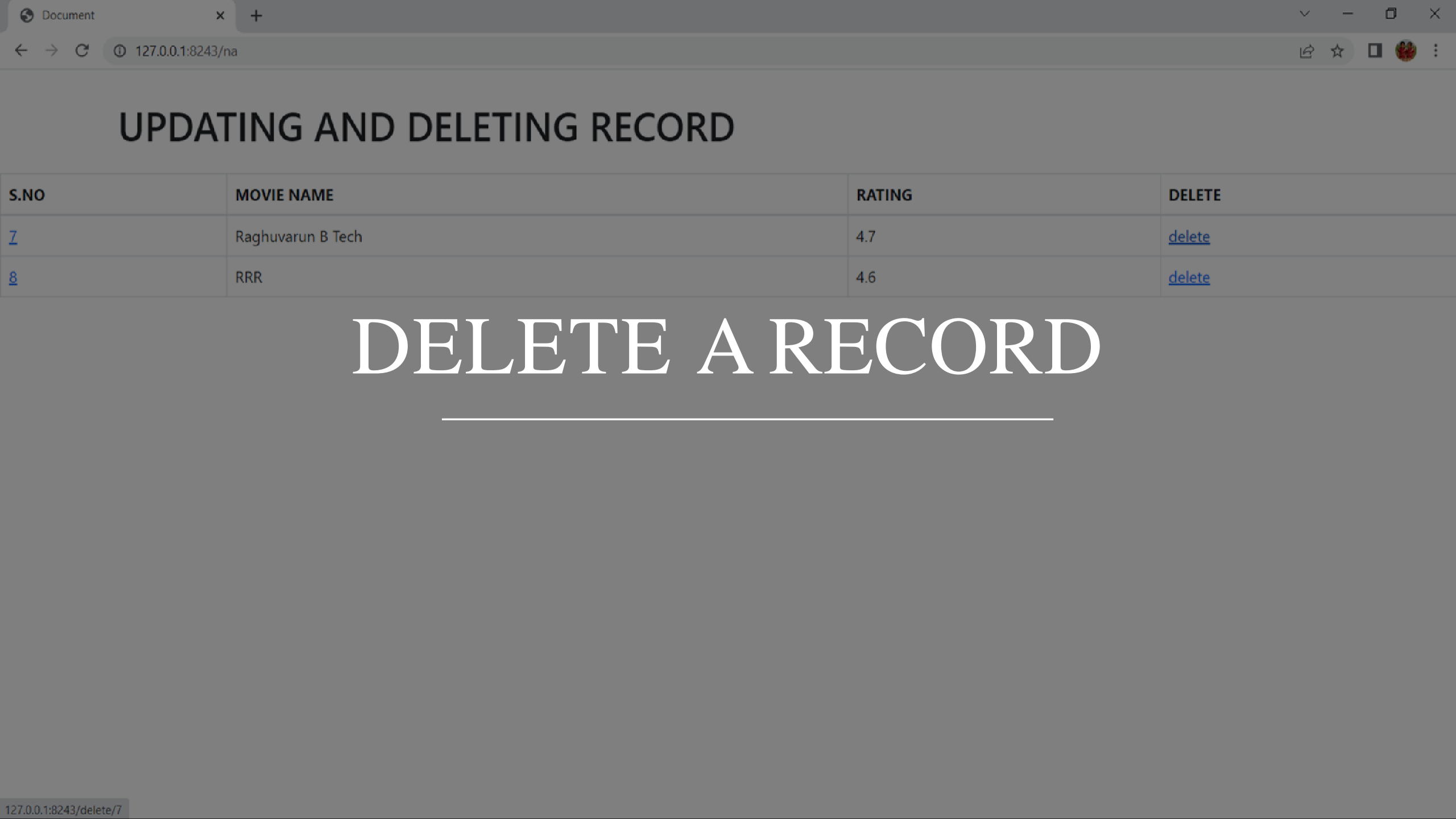
Mshows

Select mshow to change

ADD MSHOW +

NAME	STATUS	TO	DATE
1	ACTIVE	1601-23-733-994	2023-07-10
2	ACTIVE	1601-23-733-994	2023-07-10
3	ACTIVE	1601-23-733-994	2023-07-10
4	ACTIVE	1601-23-733-994	2023-07-10
5	ACTIVE	1601-23-733-994	2023-07-10
6	ACTIVE	1601-23-733-994	2023-07-10
7	ACTIVE	1601-23-733-994	2023-07-10
8	ACTIVE	1601-23-733-994	2023-07-10
9	ACTIVE	1601-23-733-994	2023-07-10
10	ACTIVE	1601-23-733-994	2023-07-10

RATING UPDATED



UPDATING AND DELETING RECORD

S.NO	MOVIE NAME	RATING	DELETE
7	Raghuvarun B Tech	4.7	delete
8	RRR	4.6	delete

DELETE A RECORD

ADMINISTRATION

AUTHENTICATION AND AUTHORIZATION

Groups

Users

MVAPP

Mshows

ADD MSHOW +

Below are the records

ID	NAME	STATUS	DATE	TIME	LOCATION
1	John Doe	Active	2023-10-27	10:30	New York
2	Jane Smith	Inactive	2023-10-26	15:45	Los Angeles
3	Mike Johnson	Pending	2023-10-25	09:15	Chicago
4	Sarah Lee	Active	2023-10-24	18:00	San Francisco
5	David Kim	Inactive	2023-10-23	12:30	Seattle

THE RECORD IS
DELETED