## **Django Web Framework**



### **NEWS PORTAL PROJECT**

In this project we are going to use all the features we have learned till now.

[Templates, Template variable and tags, Views, URLs, Static files]

**Practical 1- News Portal-** A main page that has three sections – movies, technology and sports. And by clicking on one of the menu the user will be redirected to the particular page and can read the news.

**Step 1:** Create a new project and application. Configure application in settings.py.

```
C:\Users\LENOVO\Documents\djangocourse>django-admin startproject newsportalproject
C:\Users\LENOVO\Documents\djangocourse>cd newsportalproject
C:\Users\LENOVO\Documents\djangocourse\newsportalproject>python manage.py startapp newsapp
```

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

**Step 2:** Create templates and static folder at root directory and configure them in settings.py.



Configure templates-

```
'DIRS': [BASE_DIR, 'templates'],
```

Configure static files-

## **Step 3:** Create our first template index.html.

```
templates > newsapp > 5 index.html > ♦ html
  1 <!DOCTYPE html>
      <html lang="en">
          <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
         <title>NEWS PORTAL</title>
      </head>
          <header>
             <h1>ALL IN ONE NEWS PORTAL</h1>
             <l
                 <a href="{%url 'movies'%}">Movies</a>
                 <a href="{%url 'technology'%}">Technology</a>
                 <a href="{%url 'sports'%}">Sports</a>
              </body>
 18
```

**Step 4:** Create different views for the news category (movies, technology and sports) and one index\_view for the home page.

```
def index_view(request):
    return render(request, 'newsapp/index.html')
def movies view(request):
   movie_name="Jawar
   lead_actor="Shahrukh Khan"
   Available on="Netflix
   article="As of May 13, 2024, Jawan has a worldwide total box office collection of over ₹1,148.32 crore (US\$140 million), with ₹761.98
        'movie name':movie name.
        'actor':lead_actor,
       'available_on':Available_on,
        'article':article,
    return render(request, 'newsapp/movies.html',context)
def technology_view(request):
   article='OpenAI launches GPT-40, offering free access to users in India. The new model enhances human-computer interaction and supports
    context={
        'article':article,
   return render(request, 'newsapp/technology.html',context)
def sports_view(request):
    article="KKR reaches to the final of the IPL 2024 by winning against SRH in the play-offs."
    context={
        'article':article,
    return render(request, 'newsapp/sports.html', context)
```

## Step 5: Map URLs with the views-

```
from django.urls import path
from newsapp import views

urlpatterns=[
    path('',views.index_view),
    path('movies/',views.movies_view,name='movies'),
    path('tech/',views.technology_view,name='technology'),
    path('sports/',views.sports_view,name='sports'),
]
```

```
from django.contrib import admin
from django.urls import path,include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('',include('newsapp.urls'))
]
```

**Step 6:** Create template for movies, technology and sports movies.html-

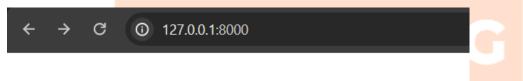
```
templates > newsapp > 5 movies.html > ♦ html
  1 <!DOCTYPE html>
  2 <html lang="en">
         <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
         <title>Movie News</title>
        <div class="content">
             <h1>Latest Movie News</h1>
             <l
                 Name of the movie: {{movie name}}
                 Lead actor: {{actor}}
                 Movie available on: {{available on}}
                 {{article}}
             </div>
      </body>
      </html>
 19
```

## technology.html-

## sports.html-

## Step 7: Start the development server and visit the URL-

python manage.py runserver



# **ALL IN ONE NEWS PORTAL**

- Movies
- Technology
- Sports



### Latest Movie News

- Name of the movie: Jawan
- Lead actor: Shahrukh Khan
- Movie available on: Netflix
- As of May 13, 2024, Jawan has a worldwide total box office collection of over ₹1,148.32 crore (US\\$140 million), with ₹761.98 crore (US\\$95 million) in India and ₹386.34 crore (US\\$48 million) overseas. This makes it the fifth highest-grossing Indian film of all time and the second-biggest Bollywood movie at the global box office.

Now for styling and to add images we have to use static files. We already configured static files in settings.py at step-2.

**Step 8:** Update templates and create CSS file in static folder for styling.

```
templates > newsapp > 5 sports.html > ♦ html > ♦ body > ♦ div.content > ♦ img
      <!DOCTYPE html>
      {%load static%}
  3 ∨ <html lang="en">
          <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Sports News</title>
          <link rel="stylesheet" href="{%static 'newsapp/css/sports.css'%}">
      </head>
          <div class="content">
              {{article}} <br/>
               <img src="{%static 'newsapp/images/kkr.jpg'%}">
 13
       </div>
      </body>
      </html>
```

style.css-

```
static > newsapp > css > 🥫 style.css > ધ a:hover
      header{
          background-color: ■gray;
          color: ■white;
          padding:15px;
          text-align: center;
           letter-spacing: 4px;
          font-family:'Times New Roman', Times, serif;
          display: flex;
          justify-content: center;
          align-items: center;
          display: inline-block;
          margin-right: 20px;
          text-decoration: none;
          color: ■#ecf0f1;
           transition: border-bottom 0.3s ease;
          border-bottom: 2px solid ■#ecf0f1; /* Light color for underline on hover */
```

### movies.css-

### tech.css-

```
static > newsapp > css >  tech.css >  img

1    .content{
2          text-align: center;
3          font-family: 'Times New Roman', Times, serif;
4          font-size:20px;
5          border: 2px solid  brown;
6     }
7
8     img{
9          height:400px;
10          margin-top: 5px;
11          width:300px;
12 }
```

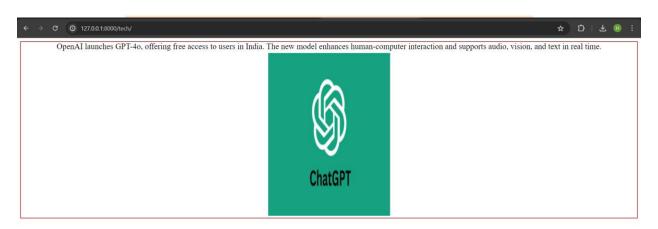
### sports.css-

Add images of your choice in the templates.

**Step 9:** Start the server and visit the web pages.









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