# Assignment-4: Django News Portal using NewsAPI

### **Objective**

### **Build a Django project that:**

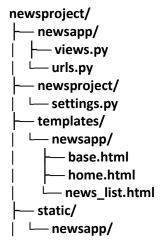
- Displays news categories.
- Fetches real-time news using NewsAPI.
- Renders news articles based on selected categories.

# Required Setup and Commands

#### O Step-by-Step Setup

Step	Command / Action
1. Create project	django-admin startproject newsproject
2. Navigate into it	cd newsproject
3. Create app	python manage.py startapp newsapp
4. Run server	python manage.py runserver
5. Make migrations	python manage.py makemigrations
6. Migrate DB	python manage.py migrate

## **➡** Folder Structure (Expected)



# □ API Key Setup Instructions

### Get a NewsAPI Key

- 1. Visit: https://newsapi.org
- 2. Sign up for a free account.
- 3. Copy your API Key from the dashboard.
- 4. Use the key in your views.py.

## URL Configuration

### Project-Level urls.py

```
# newsproject/urls.py
from django.contrib import admin
from django.urls import path, include

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

# App-Level urls.py

```
# newsapp/urls.py
from django.urls import path
from . import views

urlpatterns = [
   path(", views.home_view, name='home'),
   path('news/<str:category>/', views.news_view, name='news'),
```

URL	View	Description
/	home_view	Displays category list
/news/ <category>/</category>	news_view	Shows news for the selected category

## Static & Template Configuration

2 Add to settings.py

# settings.py

import os

# Templates
TEMPLATES[0]['DIRS'] = [BASE\_DIR / 'templates']

# Static
STATICFILES\_DIRS = [BASE\_DIR / 'static']



### Manually create:

- templates/newsapp/
- static/newsapp/

#### Put:

- All .html files inside templates/newsapp/
- style.css inside static/newsapp/

# News API Details

Attribute	Value
API URL	https://newsapi.org/v2/top-headlines
Required Params	country, category, apiKey
Sample	https://newsapi.org/v2/top- headlines?country=us&category=technology&apiKey=YOUR_KEY

Attribute	Value
Response	JSON with articles[]

## ☐ JSON Response Sample

```
"status": "ok",
 "articles": [
   "title": "Some News Title",
   "description": "Short summary",
   "url": "https://...",
   "urlToImage": "https://..."
  }
 ]
}
```



## ★ Instructions (Short & Clear)

- 1. Create Django project and app.
- 2. Setup template & static folders as shown.
- 3. Create category list in home\_view().
- 4. Fetch news from NewsAPI in news\_view().
- 5. Use requests.get() to get API data.
- 6. Pass articles to the template.
- 7. Use only basic template syntax, no template inheritance.
- 8. Show category-wise news with image, description, and read-more link.



### A working Django app where:

- Home page shows categories.
- Clicking a category fetches and displays real news.
- News is shown using title, description, image, and link.