

Daily News Planning

Project Description

The **Daily News Platform API** is a RESTful web service designed to manage and deliver digital newspaper content. It supports all core operations necessary for an online news publication system, including user authentication, article publishing, categorization, and user feedback via ratings. This API provides a scalable backend foundation for news organizations to manage editorial workflows and enhance reader engagement.

Key functionalities include:

- Role-based access with **editors** (admins) who manage content and **viewers** (subscribers) who read and rate articles.
- Managing a catalog of news articles with details like headline, body, category, publishing time, and average rating.
- Organizing content into predefined categories such as Politics, Sports, Technology, Business, and more.
- Secure user registration with email verification, login, logout, and user profile management.
- Allowing viewers to rate articles (0–4 stars) and receiving email notifications after rating submissions.
- Providing customized views for homepage, category pages, and full article pages with related content.

The **Daily News API** is designed to be consumed by frontend interfaces (web or mobile), editorial dashboards, or any third-party service requiring structured access to a digital news publishing platform.

Model

Here's a detailed plan for each model, including the field names, data types, and relationships. This covers all the entities and their interactions for your Daily News

project:

1. User Model :

Represents registered members of the Daily News both for Admin And Normal User.

Name	Datatype	Descriptions
id	Primary Key	Unique identifier for the User .
first_name	CharField	Required FirstName for User
last_name	CharField	Required LastName for User
email	EmailField	Unique email for the User .
membership_date	DateTimeField	Required Membership Date for User
password	CharField(hashed)	Hashed password for authentication.
phone_number	CharFields	User 's contact number(opt)
is_active	BooleanField	Whether the membership is active

2. Category

Represents the genre or classification of News.

Name	Datatype	Descriptions
id	Primary Key	Unique identifier for the category
name	CharField	Name of the category
description	TextField	Description of the category

3.Author

Name	Datatype	Description
id	Primary Key	Unique identifier for the author
name	CharField	Full name of the author
biography	TextField	Short bio of the author

4. Article

Name	DataType	Descriptions
headline	CharField	Title of the article
body	TextField	Full content of the article
category	ForeignKey	Foreign key to Category
author	ForeignKey	Foreign key to Author
publishing_time	DateTime	DateTime the article is published
image	ImageField	Optional image for the article
created_at	DateTime	Auto-added timestamp
updated_at	DateTime	Auto-updated timestamp

5. Ratings

Name	DataType	Descriptions
user	FK	Foreign key to User
article	FK	Foreign key to Article
value	PositiveInteger	Rating between 0 and 4
rated_at	DateTimeFields	Timestamp when rating was given

API Endpoint

1. Authentication Endpoints

These will handle user registration, login, and token management.

HTTP Method	Endpoint	Description
POST	/auth/registration/	Register a new user.
POST	/auth/login/	Log in and obtain a token.
POST	/auth/logout/	Log out the current user.
POST	/auth/token/refresh/	Refresh an expired JWT token

2. Category Endpoint

HTTP Method	Endpoint	Description
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GET	/api/v1/categories/	List all News categories
POST	/api/v1/categories/	Create a new category
GET	/api/v1/categories/<id>/	Retrieve a category's details
PUT	/api/v1/categories/<id>/	Update a category
DELETE	/api/v1/categories/<id>/	Delete a category

3. Article Endpoint

HTTP Method	Endpoint	Description
GET	/api/v1/articles/	List all News articles
POST	/api/v1/articles/	Create a new articles Admin Only
GET	/api/v1/articles/<id>/	Retrieve a articles details
PUT	/api/v1/articles/<id>/	Update a articles Admin Only
DELETE	/api/v1/articles/<id>/	Delete a articles Admin Only
GET	/api/v1/articles/?search=	Search article by name or description
GET	/api/v1/articles/?category=	Filter article by category.
GET	/api/v1/articles/<id>/ratings/	Retrieve All Ratings
POST	/api/v1/articles/<id>/ratings/	Create a Ratings
GET	/api/v1/articles/<id>/ratings/<id>/	Retrieve a Specific Ratings

4. User Profile Endpoints

HTTP Method	Endpoint	Description
GET	/api/profile/	Retrieve the logged-in user's profile.
PUT	/api/profile/	Update the user's profile.

5. Dashboard Endpoints (Admin)

HTTP Method	Endpoint	Description
GET	/api/v1/dashboard/total-users/	Get the total number of registered members.

HTTP Method	Endpoint	Description
GET	/api/v1/dashboard/total-articles/	Get the total number of Article
GET	/api/v1/dashboard/total-categories/	Get the total number of Category

Getting Started