

Project Title: Personal News Aggregator with AI Summarization

Objective

Create a personalized news aggregator that fetches articles from various sources based on user interests and uses AI to generate concise summaries. The application will allow users to customize their news feed, save articles for later reading, and get AI-powered summaries to quickly understand the key points of each article.

Backend (BE) Technologies

- Node.js with Express
- MongoDB for storing user profiles and saved articles
- Simple JWT authentication

Frontend (FE) Technologies

- React.js with hooks
- CSS framework like Tailwind CSS for rapid styling
- Responsive design for mobile and desktop
- For state management use either redux or tanstack

AI Component (Bonus Points)

- Article summarization using an easily accessible API
- Simple sentiment analysis to categorize news as positive, negative, or neutral
- Content recommendation based on user reading history

Core Requirements

1. User Authentication
 - Simple signup/login functionality
 - User profile with interests selection
2. News Feed
 - Fetch news from public APIs (like NewsAPI, Guardian API)
 - Filter articles based on user interests

- Display articles with images, titles, and publication dates
- 3. Article Management
 - Save articles for later reading
 - Mark articles as read
 - Simple organization with tags or categories
- 4. AI Features
 - One-click article summarization (3-5 key points)
 - Basic sentiment classification (positive/negative/neutral)
 - "More like this" recommendations
- 5. Responsive Design
 - Clean, modern interface
 - Mobile-friendly layout
- 6. Structure your repo professionally with a good README that explains your implementation. Upload the demo video/screenshots in the drive and attach.

Deliverables

- Working application with source code
- README with setup instructions and brief explanation of the application.

Demo Video (**Mandatory**)

- A screen recording demonstrating the execution of your project.
- The video should showcase the output and key functionalities.