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TECHNOLOGY PROJECT NAME : News Feed Application

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1. Problem Statements

Traditional news platforms are cluttered, slow, and impersonal, often hiding content behind paywalls and offering little customization. Modern readers, especially younger audiences, want fast, visually appealing, and personalized updates.

This project proposes a lightweight, responsive web app that aggregates real-time news into a clean, engaging feed. Users can follow topics or sources, get instant alerts, and interact by saving, reacting, or sharing articles. With features like reading streaks, personalized summaries, and seamless performance across devices, the app delivers a modern, accessible, and highly engaging news experience.

2. Users & Stakeholders

Primary Users

- **Students & Young Professionals** – Want a quick, personalized way to stay informed.
- **Casual Learners** – Enjoy browsing trending or niche topics for leisure.
- **Content Curators / Journalists** – May contribute articles or share curated content.

Stakeholders

- **End Users** – Readers and news enthusiasts who consume and engage with content.
- **Developers** – Design, build, and maintain the application.
- **Content Providers / Media Outlets** – Supply or syndicate news feeds and partner on content.
- **Sponsors / Owners** – Fund, manage, or strategically guide the project.

3. User Stories

- **Reader**
  As a reader, I want to browse and read news articles so that I can stay updated with current events.
- **Curious Learner**
  As a curious learner, I want to see breaking news instantly so that I never miss important updates.
- **General User**
  As a user, I want an engaging UI with clear navigation so that the app feels easy to use.
- **Editor**
  As an editor, I want to create, publish, and manage news articles so that readers always have fresh content.
- **Social User**
  As a social user, I want to like, comment on, and share articles so that I can engage with the community and my friends.

4. MVP Features

User Features

- **Browse Feed:** Scroll through latest and trending articles with headlines and images.
- **Read Articles:** View full stories with text, images, and embedded media.
- **Instant Updates:** Receive real-time notifications for breaking news.
- **Category Navigation:** Switch between topics like Sports, Tech, Politics.
- **Personalized Feed:** Get recommendations based on user interests.

UI / UX

- **Responsive Design:** Works seamlessly across mobile, tablet, and desktop.
- **Reading Progress:** Visual indicator or scroll bar to show how far the user is in an article.

Technical

- **Static Content (Phase 1):** News stored locally; scalable to API-based live feeds later.
- **Front-End Only:** Developed with HTML, CSS, and a JavaScript framework (React / Vue / Angular).

5. Wireframes / API Endpoint List

Home Page:

- App name/logo at top
- News categories menu (e.g., Trending, Tech, Sports)
- Main feed listing latest headlines with thumbnail images

Article Page:

- Article title and author/date at top
- Feature image
- Full article text
- Scroll progress indicator
- Like/Share/Bookmark buttons at bottom

Profile/Bookmarks Page:

- Saved articles list
- Manage interests/preferences

API Endpoint List (Future Integration)

- **GET /articles** – Fetch latest news articles
- **GET /articles/{id}** – Fetch a specific article's details
- **GET /categories** – Fetch available news categories
- **POST /user/preferences** – Save user interests for personalized feed
- **GET /bookmarks** – Fetch user's saved articles
- **POST /bookmarks** – Add/remove an article from bookmarks

6. Acceptance Criteria

News Feed App – Key Requirements (Brief)

- **Open Access:** Users can browse news without login.
- **Content Volume:** Each session loads at least 5 latest articles.
- **Article Format:** Each article includes headline, image, and full content.

- **Instant Updates:** New stories appear in real time or with quick refresh.
- **Easy Navigation:** Users can move between articles and categories smoothly.
- **Summary View:** Option to see a quick headline list or read full stories.
- **Responsive UI:** Works smoothly on mobile and desktop devices.