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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

2. Users & Stakeholders

seamless performance across devices, the app delivers a modern, accessible, and highly engaging

Primary Users

news experience.

Students & Young Professionals
Casual Learners
Content Curators / Journalists

Stakeholders

– Want a quick, personalized way to stay informed.
– Enjoy browsing trending or niche topics for leisure.
– May contribute articles or share curated content.

End Users
Developers
Content Providers / Media Outlets

– Readers and news enthusiasts who consume and engage with content.
– Design, build, and maintain the application.
– Supply or syndicate news feeds and

Sponsors / Owners

3. User Stories

partner on

content.

Reader

– Fund, manage, or strategically guide the project.

Curious Learner

As a reader, I want to browse and read news articles so that I can stay updated with current

General User

events.

As a curious learner, I want to see breaking news instantly so that I never miss important updates.

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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)
Vertical scroll of 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

Saved articles list

Profile/Bookmarks Page:

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

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.