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**Completed the project**

**Name as Phase 1**

**TECHNOLOGY PROJECT**

**NAME: News Feed Application**

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# **PROJECT PHASE 1: News Feed Application**

## **1.Problem statement**

In today's fast-moving world, people depend heavily on mobile apps to stay updated with the latest news. However, most existing news apps come with challenges:

Too many ads and unnecessary clutter.

Lack of personalization and category-based filtering.

Limited offline reading and bookmark options.

Many apps do not support regional languages, reducing accessibility for non-English speakers.

Our solution is to create a News Feed Application that provides:

Clean, clutter-free, and user-friendly design.

Real-time news updates from trusted APIs.

Category-based filters (sports, tech, politics, entertainment, etc.).

Bookmark and share features.

Potential multilingual/local support for accessibility.

## **2. Users & Stakeholders**

### **Users:**

General Public – People who want to stay updated with the latest headlines.

Students & Professionals – Quick access to trending updates without distraction.

Regional Users – People preferring local language news.

### **Stakeholders:**

Development Team – Frontend and Backend developers building the application.

News Data Providers / APIs – Sources like NewsAPI, Google News API, or regional feeds.

Project Mentors & Evaluators – Professors/IBM mentors reviewing the project.

### 3. User Stories

1. As a user, I want to see the top news headlines in one feed so that I can save time.
2. As a user, I want to filter news by categories (sports, tech, politics, etc.) to get only relevant updates.
3. As a user, I want to bookmark/save news articles so that I can read them later.
4. As a user, I want to share news articles with friends on WhatsApp and social media.
5. As a user, I want to read news in my preferred language (English/regional).
6. As a user, I want a clean, ad-free reading experience.
7. As a user, I want to search for specific news topics.
8. As a user, I want to know the time of publishing and source to check credibility.

### 4. MVP Features

The Minimum Viable Product (MVP) will include:

- ✓ News feed with headline, image, summary, timestamp, and source.
- ✓ Category-based filtering (Sports, Technology, Politics, Business, Entertainment, etc.).
- ✓ Bookmark/save articles.
- ✓ Share news with others.
- ✓ Search functionality.
- ✓ Responsive mobile-first UI.

#### **Optional for future releases:**

Offline reading.

Dark mode.

Multilingual/local language support.

Personalized recommendations using user history.

## 5. Wireframes / API Endpoint List

Wireframes (Basic UI)

Home Feed – Scrollable list of news cards (headline, image, summary, timestamp).

Category Tabs – Top navigation bar with category filters.

Bookmarks Page – Saved articles list.

Article Detail Page – Full news view (optional for MVP).

API Endpoints (Example with NewsAPI)

GET /top-headlines → Fetch top latest news.

GET /everything?q=keyword → Search/filter articles by keyword.

GET /sources → Fetch different sources (BBC, TOI, CNN, etc.).

POST /bookmarks → Save article to bookmarks (local DB).

GET /bookmarks → Fetch saved articles.

## 6. Acceptance Criteria

- ✅ Application must display at least 10 real-time headlines from a news API.
- ✅ Users must be able to filter by at least 3 categories.
- ✅ Users must be able to bookmark and later view articles.
- ✅ The UI must be responsive and user-friendly.
- ✅ News cards must contain headline, image, summary, source, and timestamp.
- ✅ App should load within 3 seconds under normal network conditions.