404 Not Found

Digital Newspaper Website
Use-Case Specification: View Recommended Articles

Version 1.0

Revision History

Date	Version	Description	Author
14/07/2025	1.0	Complete the document	Trần Hữu Khang

Table of Contents

Use-Case Specification: View Recommended Articles

1. Use-Case Name: View Recommended Articles

1.1 Brief Description

This use case describes the process by which a Reader views a list of recommended articles on the Digital Newspaper Website. The system uses the Reader's browsing history, preferences, or trending topics to generate and display a personalised or curated list of articles.

2. Flow of Events

2.1 Basic Flow

This use case starts when the Reader accesses the Digital Newspaper Website.

1. The Reader navigates to the homepage or a dedicated "Recommended Articles" section.
2. The system retrieves the Reader's profile data (if logged in) or session-based browsing history (if not logged in) to generate a list of recommended articles/
3. The system displays a list of recommended articles, including each article's title, a thumbnail image (if available), a brief excerpt (first 50 words of the article), and publication date.
4. The Reader scrolls through the list and selects an article by clicking on its title or thumbnail.
5. The system displays the full article content, including text, images, and any embedded media.
6. The Reader may choose to return to the recommended articles list or continue browsing other sections of the website.

2.2 Alternative Flows

2.2.1 No Recommendations Available

- If the system cannot generate recommendations (e.g., no browsing history for a new user or system error), it displays a default list of trending articles based on the most viewed or shared articles in the past 24 hours.
- The flow continues from Basic Flow step 3.

2.2.2 Reader Shares Article

- At Basic Flow step 5, the Reader selects a "Share" option (e.g., via social media, email, or link copy).
- The system provides sharing options (e.g., Twitter, Facebook, email) and, upon selection, facilitates the sharing process (e.g., opens a pre-filled tweet or copies the article URL to the clipboard).
- The flow continues from Basic Flow step 6.

3. Special Requirements

3.1 Recommendation Algorithm

The recommendation algorithm must prioritise articles based on relevance to the Reader's preferences or browsing history, with a fallback to trending articles.

3.2 Performance

The system must load the recommended articles list within 2 seconds under normal server load.

3.3 Accessibility

The system must support accessibility standards (e.g., WCAG 2.1) for the article list and content display, including screen reader compatibility.

3.4 Browser Compatibility

The system must ensure compatibility with common browsers (e.g., Chrome, Firefox, Safari) and mobile devices.

3.5 Data Privacy

The system must comply with GDPR for handling Reader data used in generating recommendations.

4. Preconditions

4.1 System Accessibility

The Digital Newspaper Website must be accessible and operational.

4.2 Article Database

The system must have access to a database of published articles.

4.3 Reader Profile

If personalised recommendations are used, the Reader must have a profile with stored preferences or a browsing history.

5. Postconditions

5.1 Article List Display

The Reader views a list of recommended or trending articles.

5.2 Article Content Access

The Reader may view the full content of a selected article.

5.3 Browsing History Update

The system updates the Reader's browsing history with the viewed article (if tracking is enabled).

6. Extension Points

6.1 Customize Recommendations

- Location: Basic Flow, step 2.
- The Reader can update their preferences (e.g., preferred categories or topics) via a settings page, which the system uses to refine the recommendation algorithm.

7. Low Fidelity Prototype For Use Case

7.1 Prompt Used for AI Tool

- Design a responsive web interface for a Digital Newspaper Website that implements the "View Recommended Articles" use case.
- Functional Requirements: [2. Flow of Event …… 6.Extension Points] (*Paste the use case specification from section 2 to 6 here)*
- Optional: Sidebar or settings page for updating user preferences. / Visual indicator for whether recommendations are based on history or trending.

7.2 Generated Interface

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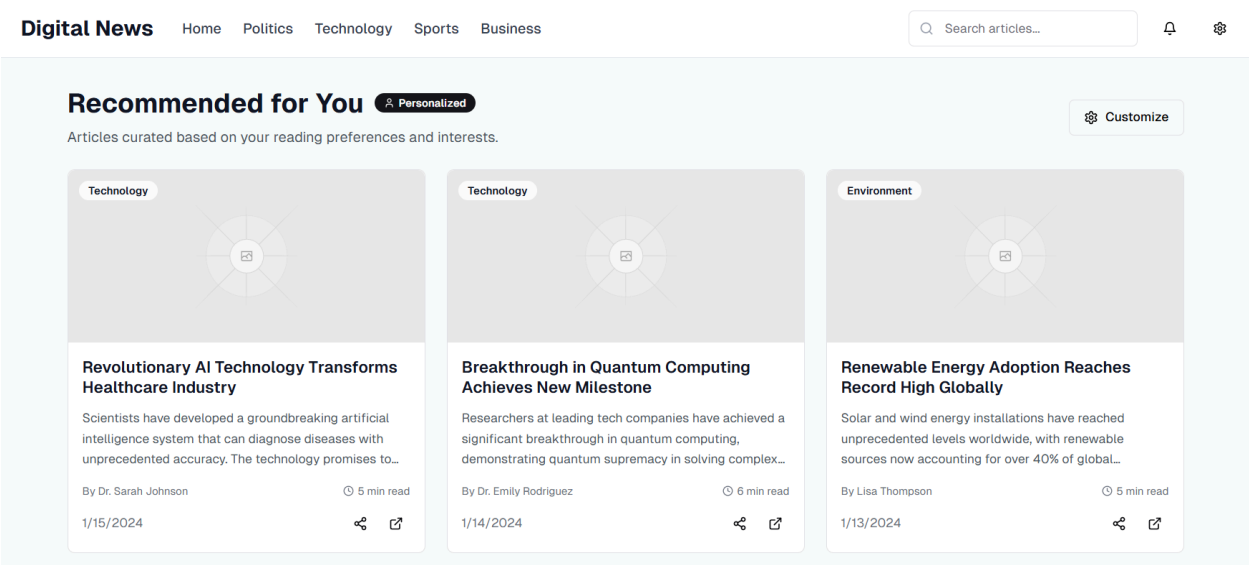
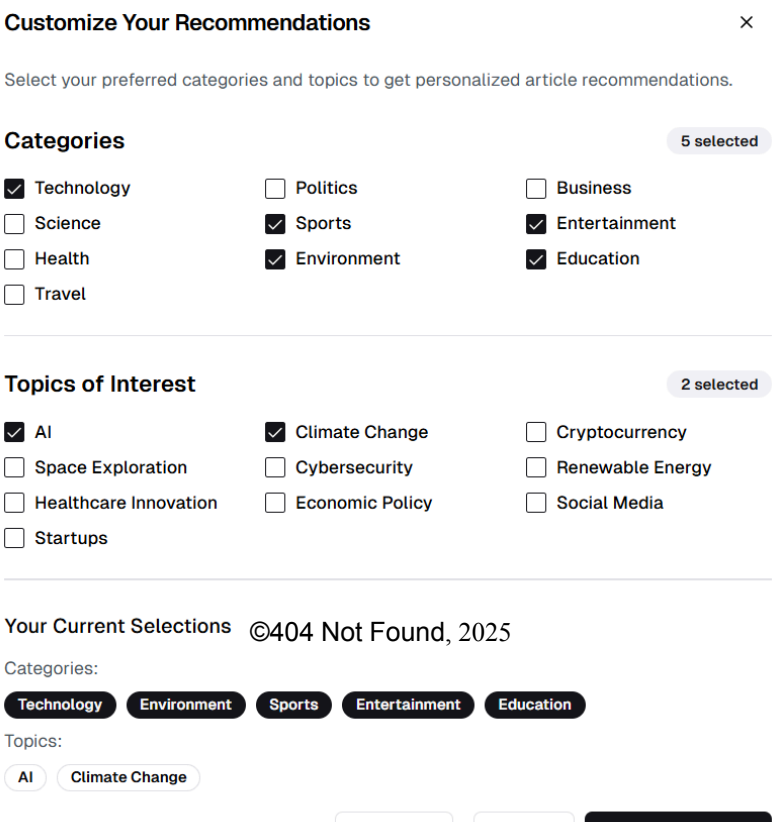
The home page:



Customisation Menu:



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