Digital Newspaper Website
Use-Case Specification: Read Article

Version 1.0

Revision History

Date	Version	Description	Author
15/07/2025	1.0	Specific about Read Article use case	Nguyễn Tấn Lộc

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Use-Case Specification: Read Article

1.   Use-Case Name: Read Article

1.1   Brief Description

A user (reader) selects and views an article on the website. The system displays the article`s content, including title, body text, author, publishing date, image (video), related tags. If the user is logged in, they can like, comment, and save articles.

2.   Flow of Events

2.1   Basic Flow

1. The user (logged in or not) accesses the homepage
2. The user selects an article by clicking its title or searching.
3. The system loads and displays the article`s details:
    a. Titile
    b. Published
    c. Author`s name
    d. Article content (text)
    e. Image or video (if any)
    f. Related tags.
4. If user has logged in, the system also displays:
    a. Comment box
    b. "Save to favorite" Button
    c. Share button
5. The user scrolls through the page to read the full article
6. If the user is logged in, the system saves the article into the user`s reading history

2.2   Alternative Flows

2.2.1   Article not found

- The user accesses a broken or deleted article link.

2.2.1.1 An Alternative Subflow

- The system display an error page: "article not found"
- Suggest going back to the homepage.

2.2.2   No internet connection

- The user lost internet connection while loading the article

2.2.2.1 An Alternative Subflow

1. the system displays the message: "unable to load article. Please check your connection"
2. allows the user to retry once the connection is restored.

3.   Special Requirements

3.1 Responsive Interface
- Article content must be properly displayed on mobile phones, tablets and desktop devices.

3.2 Performance
- Article must load within 1 second under normal conditions

3.3 Media optimization
- Images and videos must be compressed and optimized for last loading without sacrificing clarity.

4. Preconditions
4.1 The article must be approved by the editor and in "Published" status.
4.2 The system is operational and the user has internet access

5. Postconditions
5.1 The article is successfully displayed
5.2 If the user is logged in, the article is saved to their Reading History
5.3 Any user interaction (like, save, share) are recorded by the system
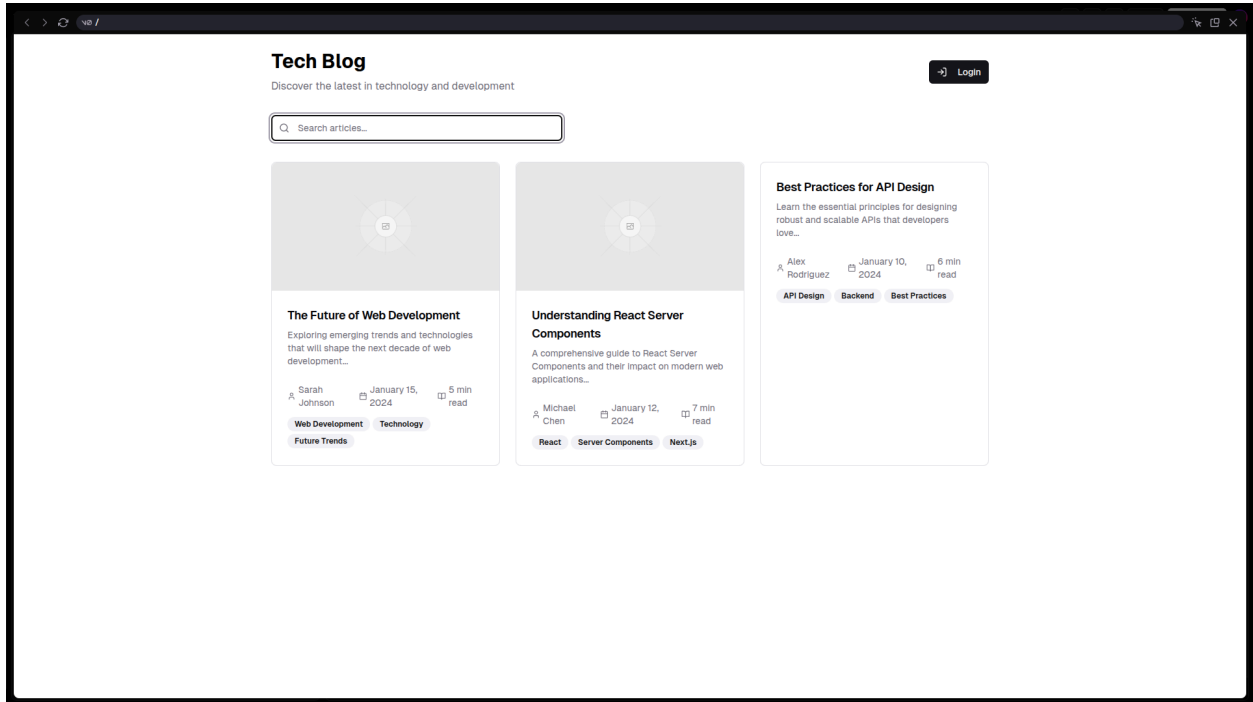
6. Extension Points
6.1 Related articles
- After step 6: The system may show 3-5 articles with similar tags.

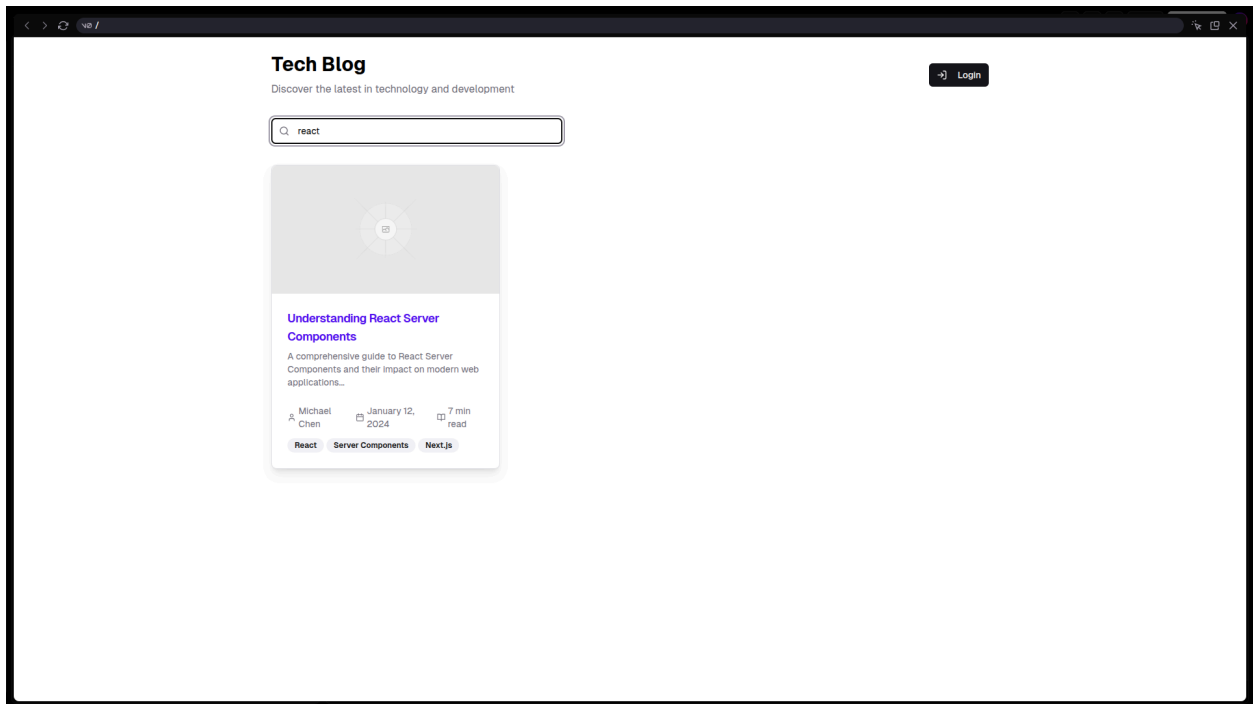## 7.   Generate Interface

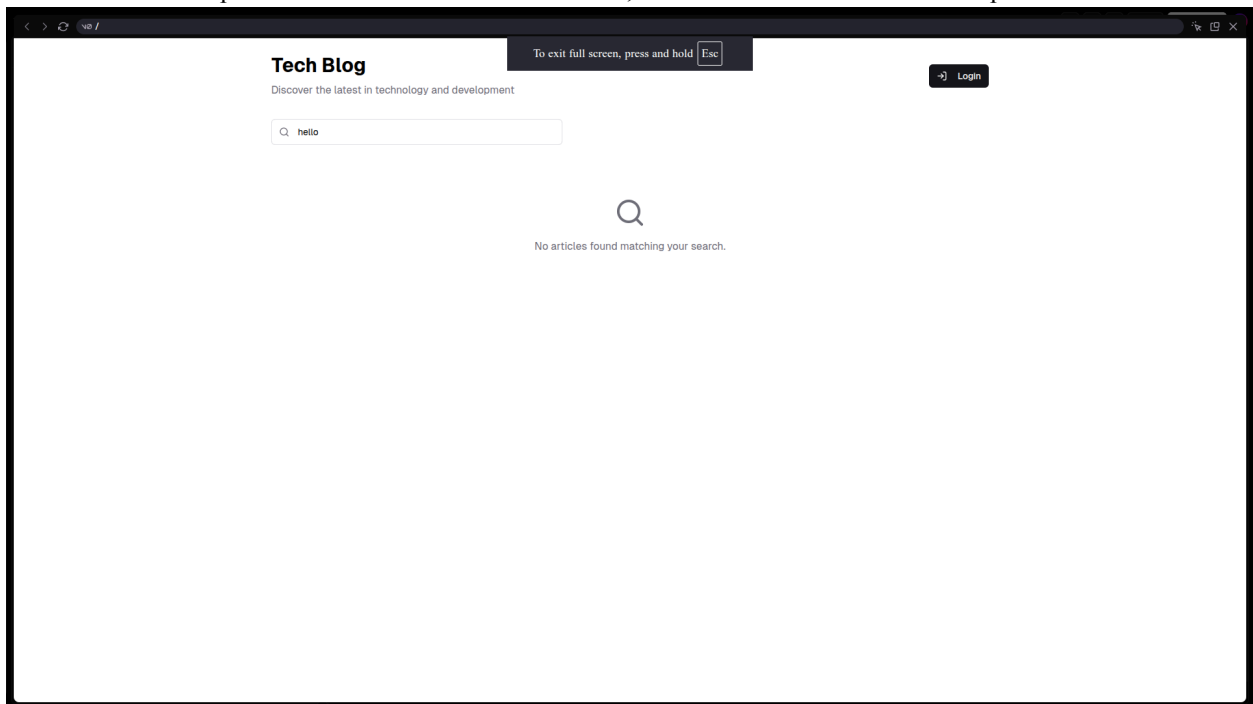Interface Articles

we can search for topics we want to read on the search bar.

We can search for topics we want to read on the search bar, but the website don`t have our topic.

When we click article, we can scroll the page to read full article

Understanding React Server Components

Michael Chen · January 12, 2024 · 7 min read

React · Server Components · Next.js

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React Server Components represent a paradigm shift in how we think about React applications. By allowing components to run on the server, we can reduce bundle sizes and improve performance significantly.

Server Components enable us to fetch data directly in our components without the need for useEffect or complex state management. This leads to cleaner, more maintainable code and better user experiences.

The integration with Next.js App Router has made Server Components more accessible to developers. We can now build applications that seamlessly blend server and client rendering, optimizing for both performance and developer experience.

Key benefits include reduced JavaScript bundle sizes, improved SEO, and faster initial page loads. However, there are also considerations around component boundaries and when to use client components for interactivity.

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