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THE NATIONAL CHRONICLE

1. PROBLEM STATEMENT

In today's digital era, news consumption has largely shifted from print media to online platforms, making it essential to design websites that can present news content in a clear, structured, and accessible manner. Many beginner-level web development projects fail to reflect real-world website structures due to poor layout planning, lack of responsiveness, and limited understanding of frontend design principles. There is a need to build a static news website that demonstrates how professional news portals organize content, manage navigation, and ensure usability across multiple devices using only frontend technologies.

The challenge addressed in this project is to design and develop a **fully responsive static news website** that resembles popular news platforms such as *The Hindu*, while using only **HTML and in-built CSS**. The website must include multiple interconnected pages, consistent layout, proper content organization, and basic user interaction, without relying on backend systems or dynamic frameworks. Another important problem is ensuring responsiveness and readability on different screen sizes, including mobile phones, tablets, and desktops, while maintaining a newspaper-style appearance.

Additionally, the project addresses the need for **SEO-friendly structure**, easy navigation, and maintainable code within the limitations of a static website. The absence of real-time data, databases, and JavaScript functionality presents further constraints, requiring careful design decisions to effectively display news content using static resources. Through this project, the problem of translating theoretical frontend concepts into a realistic and functional news website is addressed, providing a practical solution that meets academic requirements and simulates real-world web design scenarios.

2. PROPOSED SOLUTION

To address the problem of designing a professional and responsive news website using only frontend technologies, the proposed solution is the development of a **fully responsive static news website** named *The Global Times*. The website is designed using **four HTML files with in-built (internal) CSS**, ensuring simplicity, clarity, and ease of understanding. The solution focuses on recreating a real-world news portal structure while staying within the constraints of a static website and academic assignment requirements.

The proposed website consists of multiple interconnected pages, including Home, About, Business, and Contact pages. Each page follows a consistent layout with a centered logo, a sticky navigation bar, and well-organized content sections. Internal CSS is used to manage styling, layout alignment, typography, and responsiveness. By embedding CSS directly within each HTML file, the solution ensures that styling is self-contained and easy to modify without relying on external dependencies or frameworks.

A newspaper-style layout is implemented to present news content in a clear and readable manner. The Home page highlights major news articles along with supporting content, while the Business page focuses on business-related news using images and brief descriptions. Dummy content and royalty-free images are used to simulate real news articles, ensuring that the website appears realistic while avoiding copyright issues. Semantic HTML elements are utilized to enhance readability, accessibility, and search engine optimization.

Responsiveness is achieved through the use of flexible layouts, relative units, and media queries within the internal CSS. This ensures that the website adapts smoothly to different screen sizes, including mobile phones, tablets, and desktops. Basic user interaction is incorporated through an HTML contact form and an embedded Google Map on the Contact page, improving usability and functionality.

Overall, the proposed solution provides a simple yet effective approach to building a static news website that meets academic requirements, demonstrates frontend development skills, and lays a strong foundation for future enhancements. The solution can be extended by integrating JavaScript for dynamic behavior, using modern frameworks like React, or adding backend technologies for real-time content management.

3. THEME

3.1 INTRODUCTION

With the rapid growth of the internet and digital media, the way people consume news has changed significantly. Traditional print newspapers are gradually being replaced by online news platforms that provide instant access to information from anywhere and at any time. As a result, designing well-structured, responsive, and user-friendly news websites has become an important aspect of modern web development. News websites must present large amounts of information in an organized manner while maintaining readability, accessibility, and visual appeal across different devices.

This project, titled “**The National chronicle – Fully Responsive Static News Website,**” focuses on designing and developing a static news website using **HTML and in-built (internal) CSS**. The website is inspired by popular news portals such as *The Hindu* and *Times of India* and aims to replicate a similar layout and content structure within the limitations of frontend technologies. The project consists of four interconnected HTML pages—Home, About, Business, and Contact—each designed to serve a specific purpose and provide a seamless user experience.

The main emphasis of this project is on frontend development concepts such as layout design, responsive behavior, navigation structure, and SEO-friendly coding practices. No backend technologies, databases, or dynamic frameworks are used, making the project simple yet effective for understanding the fundamentals of web development. Through this project, practical knowledge is gained in converting a planned wireframe into a functional website, managing content using static resources, and deploying the website using a free hosting platform.

Overall, this project demonstrates how a professional-looking news website can be created using basic web technologies, while also laying a foundation for future enhancements such as JavaScript-based interactivity, modern frontend frameworks, and backend integration.

3.1.1 OBJECTIVE

The primary objective of this project is to design and develop a **fully responsive static news website** using HTML and in-built (internal) CSS, in order to understand and apply the fundamental concepts of frontend web development. The project aims to simulate a real-world online news platform by organizing news content in a structured, readable, and visually appealing manner. Through this project, the objective is to gain practical experience in creating professional website layouts similar to popular news portals such as *The Hindu*, while working within the limitations of static web technologies.

Another important objective of this project is to strengthen the understanding of **HTML page structuring and CSS-based styling techniques**. By developing four interconnected HTML pages—Home, About, Business, and Contact—the project aims to demonstrate effective navigation design and consistency across multiple web pages. The use of in-built CSS allows for better control over layout, typography, spacing, and responsiveness, helping to understand how design elements affect user experience.

The project also aims to implement **responsive web design principles** so that the website functions smoothly on different screen sizes, including mobile devices, tablets, and desktops. Ensuring that the content adjusts properly without breaking the layout is a key objective, as responsiveness is a critical requirement of modern web applications. Additionally, the project focuses on following **SEO-friendly coding practices** by using semantic HTML elements, proper heading hierarchy, and meaningful content structure to improve accessibility and search engine visibility.

Another objective of this project is to introduce **basic user interaction** through static elements such as HTML forms and embedded components like Google Maps. This helps in understanding how users interact with web pages even without dynamic scripting. Overall, the project aims to build a strong foundation in frontend development, improve problem-solving skills related to layout and design, and prepare for future enhancement of the website using advanced technologies such as JavaScript, frontend frameworks, and backend systems.

3.1.2 EXTENT

The extent of this project is focused on the complete design and development of a **static, frontend-based news website** using **HTML and in-built (internal) CSS**. The project covers the planning, structuring, designing, and deployment of a multi-page website that presents news content in a professional and organized manner. It includes the creation of four separate HTML pages—Home, About, Business, and Contact—each serving a specific purpose while maintaining a consistent design and navigation structure across the website. The project emphasizes proper content arrangement, visual layout, and usability, similar to real-world news portals.

Within the scope of this project, major frontend concepts such as semantic HTML structure, internal CSS styling, responsive layout design, and user-friendly navigation are implemented. The website includes essential components such as a centered logo, sticky navigation bar, headline news sections, content blocks with images, informational pages, and a contact form for basic user interaction. Responsiveness is an important aspect of the project, and the website is designed to adapt to different screen sizes including mobile phones, tablets, and desktop systems using CSS techniques.

The project also extends to the use of **SEO-friendly coding practices**, including proper heading hierarchy, meaningful page titles, and the use of semantic HTML elements to improve readability and accessibility. Dummy text content and royalty-free images are used to simulate real news articles while ensuring ethical and copyright-safe development practices. The website is tested for layout consistency, navigation flow, and responsiveness before being hosted on a free platform such as GitHub Pages.

However, the extent of this project is intentionally limited to static web development. It does not include backend programming, database connectivity, real-time news updates, user login systems, content management systems, or advanced client-side scripting using JavaScript. Dynamic data handling, API integration, and server-side processing are outside the boundaries of this project. Despite these limitations, the project provides a strong foundational understanding of frontend web development and offers scope for future expansion by integrating JavaScript, modern frontend frameworks like React, or backend technologies to transform the static website into a dynamic news application.

4. FUNCTIONAL REQUIREMENTS

The system shall provide a **Home page** that displays the main headline news along with supporting news articles in a structured and readable layout. The Home page shall include a centered logo and a navigation bar that allows users to access other pages of the website easily. The system shall ensure that the navigation bar is visible on all pages and enables smooth navigation between different sections of the website.

The system shall provide an **About page** that displays information about the news website, including its purpose, mission, and background. This page shall help users understand the intent of the website and the type of content it provides. The About page shall maintain the same layout structure and navigation style as other pages to ensure consistency.

The system shall provide a **Business page** that displays business and market-related news articles. Each news item shall include an image, a heading, and a short description to simulate real news content. The Business page shall present multiple news articles in a grid or column-based layout to maintain a newspaper-style appearance.

The system shall provide a **Contact page** that allows users to interact with the website through a contact form. The contact form shall include input fields such as name, email, and message. The system shall also display an embedded Google Map on the Contact page to show location details and improve usability.

The system shall ensure that all pages are **fully responsive**, allowing users to view the website on mobile phones, tablets, and desktop devices without layout issues. The system shall use internal CSS to control layout behavior and ensure that images, text, and navigation elements adjust properly to different screen sizes.

The system shall use **semantic HTML elements** to structure content in a meaningful way, improving readability and accessibility. The system shall also ensure basic **SEO-friendly practices**, such as proper heading hierarchy, meaningful page titles, and image alternative text, to improve search engine visibility.

5. NON-FUNCTIONAL REQUIREMENTS

The system shall be designed to be **responsive**, ensuring that the website functions properly across different devices such as mobile phones, tablets, and desktop computers. The layout, images, and text shall automatically adjust to various screen sizes without affecting readability or usability. This requirement ensures a consistent user experience on all devices.

The system shall provide a **user-friendly interface** with clear navigation and readable content. The website layout shall be simple, well-organized, and easy to understand, allowing users to access information without confusion. The navigation menu shall be consistently available on all pages to improve usability.

The system shall ensure **performance efficiency** by loading pages quickly, as it is a static website without heavy scripts or backend processing. Images and content shall be optimized to reduce load time and improve browsing experience even on slower internet connections.

The system shall maintain **reliability and stability**, ensuring that all pages load correctly without broken links or missing content. Since the website is static, it shall function consistently without system crashes or runtime errors.

The system shall follow **maintainability requirements** by using clean, readable HTML code and structured internal CSS. This will make it easier to update content or modify styles in the future. Even though internal CSS is used, the code shall be organized to allow easy understanding and modification.

The system shall adhere to **SEO and accessibility standards** by using semantic HTML elements, proper heading hierarchy, and alternative text for images. This ensures that the website is accessible to users with different needs and is easily indexed by search engines.

The system shall ensure **security at a basic level**, as no user data is stored or processed. Since the website does not include backend processing or databases, the risk of security vulnerabilities is minimal.

6. SYSTEM MODULES

The system is divided into multiple modules to organize the functionality of the static news website in a clear and structured manner. Each module represents a specific web page and is designed to perform a defined role within the system while maintaining consistency in layout, navigation, and styling.

The **Home Module** acts as the main entry point of the system. This module is responsible for displaying the primary news content of the website, including headline news, featured articles, and the latest updates. It includes a centered logo, a sticky navigation bar, and multiple news sections arranged in a newspaper-style layout. The Home module provides users with an overview of the most important news and allows them to navigate to other modules easily.

The **About Module** is designed to provide informational content about the news website. This module explains the purpose, vision, and mission of the platform. It helps users understand the background of the website and the type of news content it offers. The About module follows the same design structure and navigation pattern as the Home module to maintain uniformity across the system.

The **Business Module** focuses specifically on business and market-related news. This module displays multiple business news articles using images, headings, and short descriptions. The content is arranged in a grid or column-based layout to resemble a professional news portal. The Business module allows users to quickly access financial and economic news in an organized manner.

The **Contact Module** provides a way for users to interact with the system. This module includes a contact form created using HTML input elements, allowing users to enter their name, email, and message. It also contains an embedded Google Map to display location details. The Contact module enhances user engagement and provides basic communication functionality within the static website.

Together, these system modules work cohesively to form a complete static news website. Each module is implemented as a separate HTML file with in-built CSS, ensuring clarity, ease of maintenance, and consistent user experience throughout the system.

7. CONCLUSION

In conclusion, the project titled **“The National chronicle – Fully Responsive Static News Website”** has been successfully designed and developed using **HTML and in-built (internal) CSS**. The project fulfills all the requirements specified in the assignment, including multiple web pages, proper navigation, responsive design, and basic user interaction. By creating four interconnected HTML pages—Home, About, Business, and Contact—the project demonstrates effective content organization and a consistent newspaper-style layout similar to real-world news websites.

This project helped in gaining practical understanding of frontend web development concepts such as page structuring using semantic HTML, styling using CSS, and making a website responsive for different screen sizes. The use of internal CSS allowed better control over layout and design while keeping the project simple and easy to understand. The inclusion of features such as a sticky navigation bar, contact form, and embedded Google Map enhanced the usability of the website.

Overall, this project served as a valuable learning experience by bridging the gap between theoretical knowledge and practical implementation. It provides a strong foundation for future development, where advanced features like JavaScript interactivity, frontend frameworks, and backend integration can be added to transform the static website into a dynamic news application.

8. REFERENCES

The following resources were referred to for learning, design inspiration, and implementation during the development of this project:

- Mozilla Developer Network (MDN): <https://developer.mozilla.org/>
- W3Schools – Web Development Tutorials: <https://www.w3schools.com/>
- Figma – Wireframe and UI Design Tool: <https://www.figma.com/>
- Google Fonts – Typography Resources: <https://fonts.google.com/>
- Unsplash – Free Image Resources: <https://unsplash.com/>
- HTML Color Codes – Color Selection Tool: <https://htmlcolorcodes.com/>
- GitHub Pages – Free Website Hosting: <https://pages.github.com/>