Design and Deployment of a Prototype College Website Using Web **Technologies**

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Abstract - This paper presents the design and development of a college website using basic web technologies such as HTML, CSS, and JavaScript without relying on advanced frameworks or content management systems. The objective of this work is to create a lightweight, accessible, and user-friendly platform that provides essential information about the college, including departments, faculty details, admissions, events, and contact information. The website was developed using Notepad as the code editor and tested across multiple web browsers for compatibility. The methodology followed a structured approach involving requirement analysis, design of web pages, coding, and testing. The simplicity of the development process makes it cost-effective, easy to maintain, and suitable for institutions with limited technical resources. The results indicate that a basic website can serve as an effective medium for information dissemination, bridging communication between the college administration, students, and stakeholders. Future enhancements may include database integration, responsive design, and dynamic content management.

Key Words: HTML, CSS, JavaScript, Notepad, College Website, Web Development, Information System

Acknowledgment and Disclaimer - The authors wish to acknowledge the Kishkinda University for serving as a reference model in the design and development of the replica web-page. The work presented in this paper is developed solely for academic research and demonstration purposes. The replica is not an official website of the university, nor is it affiliated with or endorsed by the institution in any capacity.

1. INTRODUCTION

The digital presence of educational institutions has become essential for communication, transparency, and branding. Websites serve as the primary interface between the institution and its stakeholders, including students, parents, and faculty. However, many smaller institutions lack the resources for advanced IT infrastructure. This study focuses on creating a low-cost and lightweight college website using basic technologies.

2. LITERATURE REVIEW

Previous works highlight the role of educational websites in information sharing and management. Studies emphasize usability, accessibility, and responsive design as key factors in user engagement. While several frameworks and CMS platforms exist, they often require technical expertise and resources. This work fills the gap by demonstrating a simple, cost-effective approach.

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Fig -1: University Main Page

3. METHODOLOGY

The methodology adopted for the design and development of the proposed College Website Portal followed a structured approach to ensure clarity, functionality, and user-friendliness. The proposed website was developed using HTML, CSS, and JavaScript, implemented through a text editor (Notepad). The methodology followed a systematic process as described below.

3.1 Requirement Collection

The initial phase involved collecting requirements for the design of essential web pages. The main pages identified included Home, About, Academics, Student



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Life, and Contact. Additional interactive features were also proposed to enhance user experience.

3.2 Layout Design

A structured navigation system was designed, including header, footer, and internal links to ensure smooth accessibility. Page layouts were created to highlight important sections such as announcements, infrastructure, academic details, and student services. Development

The development phase involved writing the source code using HTML, CSS, and JavaScript to implement the planned design. The coding was carried out in a Notepad environment, thereby emphasizing the use of fundamental tools and technologies in website development. HTML was used to structure the content, CSS for styling and presentation, and JavaScript to enhance interactivity and functionality.

3.3 Development

The implementation phase involved coding and integration of multiple features as described below:

- 1. **Home Page:** Incorporated default video playback on click to improve engagement.
- 2. **Announcements Section:** Implemented an alternate text marquee effect scrolling from left and right sides.
- 3. **Address Section:** Added a blinking "Follow Us" message to capture user attention.
- 4. **About University Page:** Embedded a video window with minimize and maximize options, enabling full-screen display. Infrastructure details such as hostels, transport, cafeteria, and banking facilities were presented.
- 5. Academics Page: Included comprehensive information about teaching and non-teaching staff across all departments.
- 6. **Student Life Page:** Highlighted student development programmes, soft skills training, experiential learning opportunities, and student support mechanisms.

3.4 Testing and Validation

The developed website was tested to ensure functionality of navigation, responsiveness, and interactive elements including blinking text, marquee announcements, and video features. User feedback was collected and necessary refinements were made to improve the final version.

4. DESIGN & IMPLEMENTATION

The developed website has been systematically designed to provide a user-friendly and accessible digital platform for rural colleges. It was implemented using basic web technologies such as HTML, CSS, and JavaScript, coded in Notepad, ensuring simplicity and adaptability for institutions with limited technical resources. The website design emphasizes ease of navigation, clear structure, and responsiveness, making it convenient for students, faculty, and visitors to access information. The following modules were included in the implementation:

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4.1 Home Page

The home page serves as the primary entry point to the website. It provides a concise overview of the institution, highlighting its identity, purpose, and key features. The layout is designed to be visually appealing while maintaining clarity, enabling first-time visitors to understand the college's offerings quickly.



Fig -2: University Announcement Page

4.2 About Page

This module contains detailed information regarding the institution's history, vision, and mission. It communicates the values and objectives of the college, allowing stakeholders to gain insights into the institution's philosophy and long-term goals. The design ensures readability and organized presentation of information.



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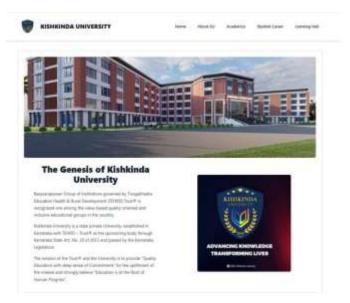


Fig-3: University Description Page

4.3 Events Page

The events page is designed to showcase college activities, programs, and upcoming notices. It functions as a digital noticeboard, ensuring timely updates for students and faculty regarding cultural, academic, and extracurricular activities.



Fig -4: Student Career Page



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Fig -5: Student Skill Development Details of the University

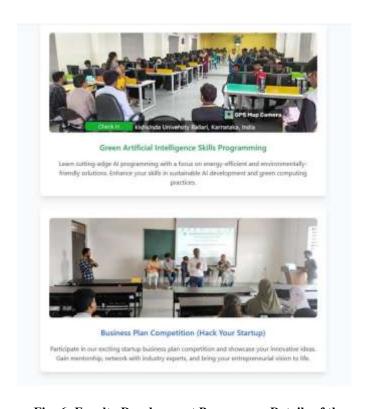


Fig -6: Faculty Development Programme Details of the University

4.4 Contact Page

The contact module contains the institution's address, phone numbers, and an interactive contact form. This feature allows visitors to directly communicate with the administration, making the website not only informational but also interactive.



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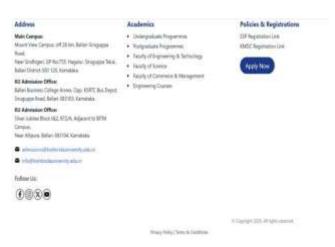


Fig -7: University Contact Page



Fig -8: University Learning Hub Page

5. RESULTS AND DISCUSSION

The developed website was systematically tested across multiple web browsers, including Google Chrome, Mozilla Firefox, and Microsoft Edge, to evaluate its compatibility and functionality. During the testing phase, the website was observed to be fully operational and responsive across all tested browsers, with consistent rendering of text, images, and navigation elements. This demonstrates that the implementation is platform-independent and can be accessed conveniently by users without technical barriers.

Another significant outcome of the design is the lightweight nature of the website. Since it was built using only basic web technologies such as HTML, CSS, and JavaScript, without relying on external frameworks or libraries, the pages load quickly and consume minimal system resources. This feature is especially beneficial for rural colleges, where internet connectivity and computing infrastructure may be limited. The website's clean design and simple navigation ensure that students, faculty members, and visitors can easily locate required

information, thereby enhancing the overall user experience.

6. CONCLUSION

This study successfully demonstrated the design and implementation of a functional college website using HTML, CSS, and JavaScript, developed entirely in Notepad. The approach highlights the feasibility of creating a digital platform that is cost-effective, simple to develop, and easily maintainable, making it highly suitable for small and rural institutions that often face resource constraints. The project also emphasizes the importance of adopting basic web technologies to improve institutional visibility and accessibility without incurring significant infrastructure costs.

The results indicate that the developed website achieves its intended purpose of providing essential information about the institution, academic departments, faculty details, events, and contact information in a clear and accessible manner. The simplicity of the design ensures inclusivity, particularly in rural settings where advanced digital infrastructure may not be available.

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