

## Chapter 1

# INTRODUCTION

The website has been developed for our department. [Electronics and communication] In an effort to make it as attractive and dynamic as possible. Compared to the existing site a database has been added to our project. The first page provides several links. The Home page contains several information about the site like campus, management, infrastructure etc. The notification displays the latest developments, announcements and events associated with the department activities.

The website has been created using HTML and CSS The website aims to provide an intuitive and user-friendly interface for students, faculty, and visitors to access various college-related information and services. As technology advances internet is becoming ever popular. Thus, having a website is important for any organization. The organization is well known in recognizing that we decided to develop a website for the college which compromises of all the required information about department. The application is reduced as much as possible to avoid faults while entering the information. It also provides burden message while entering invalid information. No formal data is needed for the operator to use this system. Therefore, by this all it shows it is user-friendly. College Website, as defined above, can lead to fault free, secure, reliable and fast supervision system. It can assist the user to focus on their other activities rather to concentrate on the record keeping. Thus, it will assistance organization in better way to utilize the resources.

This is designed to assist in tactical planning, and will help you confirm that your organization is equipped with the right level of data and details for your future goalmouths. Also, for those busy managerial who are always on the go, our systems come with remote access structures, which will allow you to manage your workforce anytime, at all times. These systems will eventually allow you to better manage resources.

## Chapter 2

### 2.1 Literature Survey

[1] Empirical Studies on Web Accessibility of Educational website: A Systematic Literature Review **Milton Campoverde-Molina; Sergio Luján-Mora; Llorenç Valverde García** IEEE Access Year: 2020 | Journal Article | Publisher: IEEE This SLR addresses relevant issues regarding web accessibility evaluation methods, disabilities, WCAG, online web accessibility evaluation tools, accessibility errors, and empirical results.

[2] Challenges to Assess Accessibility in Higher Education Website : A Comparative Study of Latin America Universities **Patricia Acosta-Vargas Tania Acosta Sergio Luján-Mora** Year:2018 | Journal Article | Publisher: IEEE The results obtained by this accessibility evaluation of university websites indicate that no website reached an acceptable accessibility level.

## **2.2 Outcome of Literature Survey**

This SLR was essential in determining the empirical studies on the accessibility of educational websites from 2009 to October 2019. With the SLR, all ten research questions were answered, with the first three being the bibliometric analysis and the other seven the SLR itself, providing a comprehensive analysis of the current state of this research.

The results obtained by this accessibility evaluation of university websites indicate that no website reached an acceptable accessibility level. The study discovered huge numbers of level “A” accessibility violation errors. Tests performed by accessibility experts are important, because they understand how web technology interacts and can contribute reports based on different groups of target users by applying specialized test tools.

## Chapter 3

# DEPARTMENT WEBSITE DESIGN USING HTML AND CSS

### 3.1 Introduction

In today's digital age, having a captivating and user-friendly website is essential for any educational institution, including colleges. A well-designed department website serves as a crucial communication channel between the institution and its stakeholders, such as students, faculty, staff, and prospective applicants. It provides an online platform to showcase the college's offerings, disseminate information, and foster a sense of community.

This project aims to create an engaging department website using HTML and CSS, two fundamental web development technologies. By employing these technologies, we can leverage their capabilities to craft a visually appealing, responsive, and easily navigable website that meets the needs and expectations of its users.

The pages of websites can usually be retrieved from a common root URL called the homepage, and usually exist in the same physical server. The URLs of the pages establish them into a hierarchy, although the hyperlinks between them switch how the reader perceives the overall structure and how the traffic flows between the unlike parts of the sites.

A website requires good-looking design and proper prearrangement of links and images, which enables a browser to easily read and access the properties of the site. Hence it provides the browser with adequate information and functionality about the society, community, network etc.

### 3.2 Problem Statement

- **Lack of Responsiveness:** With the increasing use of mobile devices, it is essential for websites to be responsive and adaptable to different screen sizes. However, many college websites are not optimized for mobile devices, leading to a poor user experience and difficulty in accessing information on smaller screens.
- **Ineffective Search Functionality:** The search feature on the website may produce inaccurate or irrelevant results, making it difficult for users to find the desired information quickly. This can lead to frustration and a loss of trust in the website's ability to provide reliable and relevant content.
- Addressing these common problems in website design is crucial to creating a user-friendly, informative, and engaging online platform that accurately represents the institution and fosters positive interactions with its users.

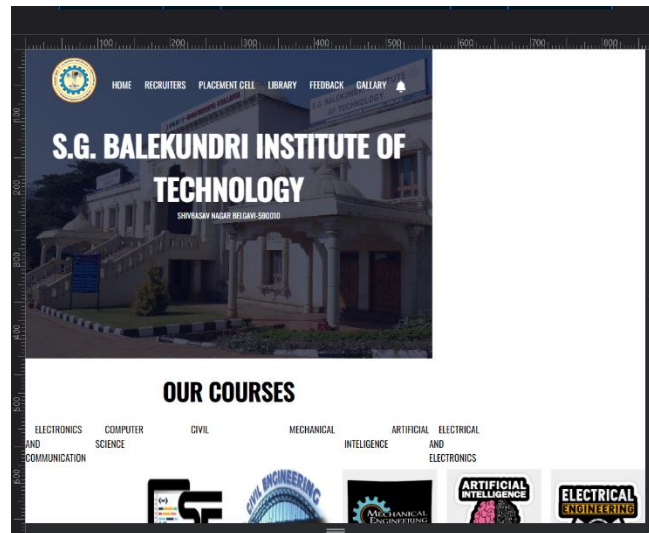


Fig 3.2.1 Lack of Responsiveness

### 3.3 Objectives

- The purpose of the project is to build an application program to reduce the manual work for managing department activities.
- **Showcase Achievements and Events:** The website should highlight achievements, accolades, research publications, and success stories of faculty and students. It should also promote upcoming events, conferences, workshops, and seminars. This objective aims to demonstrate the college's excellence and foster a sense of pride among its community members.
- **Ensure Accessibility and Inclusivity:** The website should be designed and developed with accessibility in mind, adhering to web accessibility standards and guidelines. It should be accessible to individuals with disabilities, offering features such as alternative text for images, captioning for videos, and keyboard navigation options. This objective emphasizes the college's commitment to inclusivity and equal access to information for all users

## 3.4 PROPOSED MODEL

### Proposed Methodology

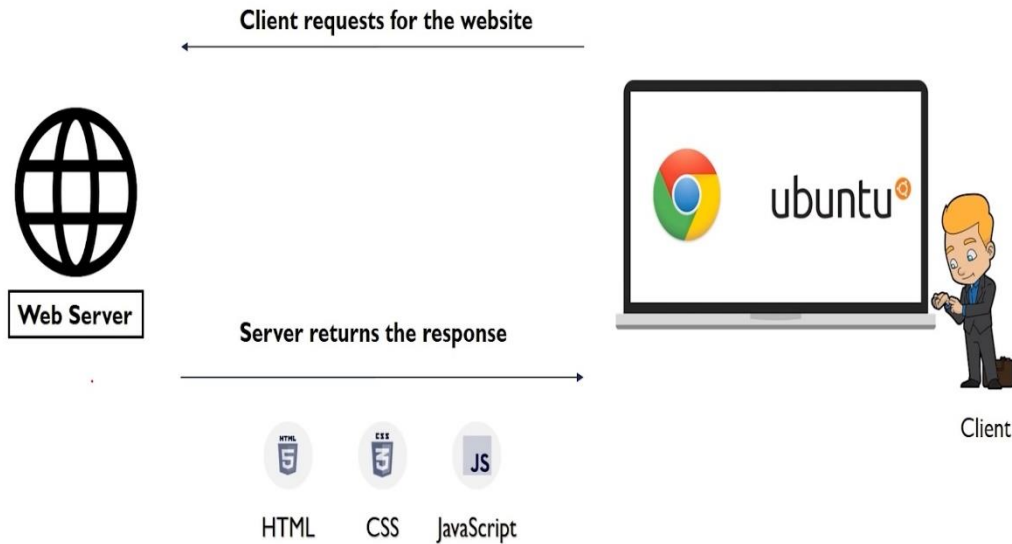


Fig 3.4.1 How website works at user side



**HTML:** Hypertext Markup Language (HTML) HTML is the backbone of web pages, responsible for defining the structure and content. HTML also allows you to specify the style of your web page using Cascading Style Sheets (CSS). The college website is built using HTML5, which offers enhanced semantic elements.



**CSS:** Cascading Style Sheets (CSS) It enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation. It is a versatile language. CSS can be used to style a wide variety of different web pages, from simple static pages to complex interactive applications.

## **3.5 ADVANTAGES AND DISADVANTAGES OF PROPOSED MODEL**

### **ADVANTAGES**

- Easy to access
- Integration of all records.
- Provides all the comprehensive information about the department.
- Free from downloading.
- Reach wider audience.

### **DISADVANTAGES**

- Maintenance: Once your website is up and running, you will need to maintain it. This includes updating the content, fixing any bugs, and making sure that the website is still secure.



## Chapter 4

### RESULT AND DISCUSSION

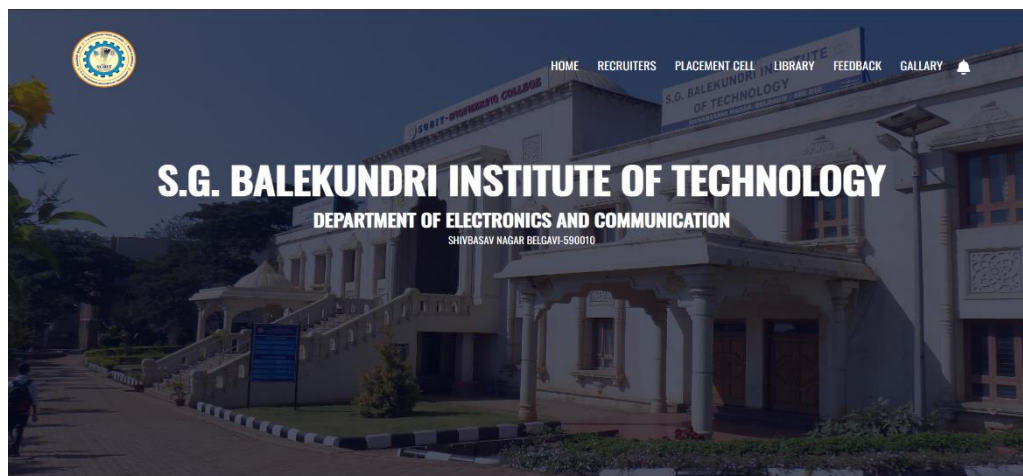


Fig 3.5.1 Homepage Desktop view



Fig 3.5.2 Mobile view

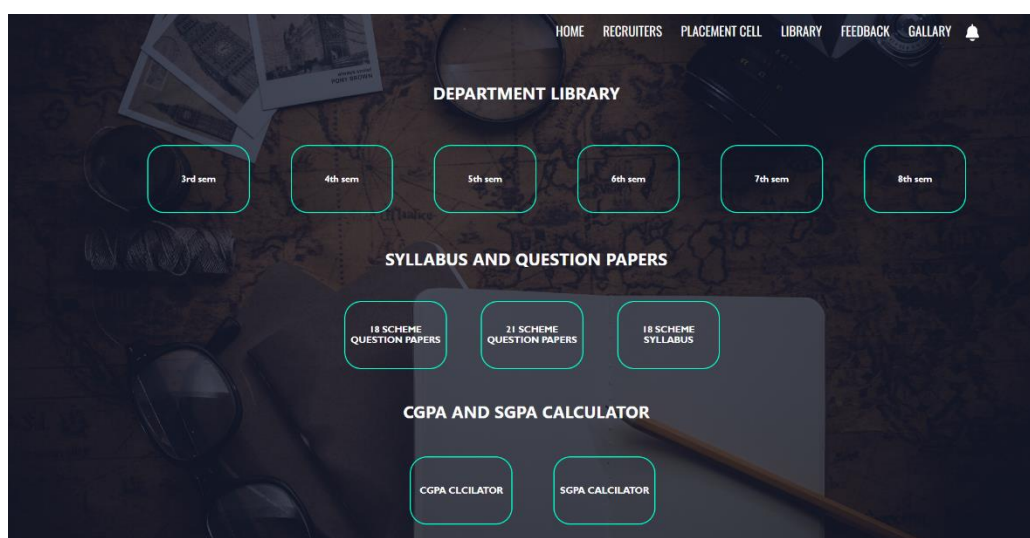


Fig 3.5.3 Library Desktop view



Fig 3.5.4 Mobile view

The instructive institute websites are very important for building up the institute's presence in the educational world.

- So many features which were not in the department website added to this website.
- We as students have to search in different web for different needs, here students will get many things under same website which will be helpful for students and faculty.

- **Chapter 5**

## **Conclusion And Future Scope**

Designing a department website using HTML and CSS offers flexibility, interactivity, and customization possibilities. By utilizing these technologies effectively, a well-designed department website can provide an engaging user experience, easy navigation, and access to essential department information. It is important to prioritize accessibility and responsiveness to cater to diverse user needs. In today's Web development, a decent page design is important. A bad design will lead to the impairment of visitors. In over-all, a good page layout has to gratify the basic elements of a good page plan. Although it can be hard to come up with a plan that is well suited to all of the users, there will be a plan that is appropriate for most of the audience. The glowing page design, the more knockouts a page will grow. That implies an increase in accessibility. The system has been established with much care that it is free of faults and at the same time it is efficient and less time consuming. The significant thing is that the system is robust. Provision is provided for future expansions in the system. The entire system is protected.

## **Future Scope**

The future scope of department website design is vast, as technology and user expectations continue to evolve. Some areas that hold potential for future development in department website design are

- **User centric design:** user experience will remain a key focus in the future. Department website provides personalized experiences tailored to the needs and preferences of users
- **Mobile first and responsive design:** with the increasing use of the mobile devices, department website will ensure seamless user experiences across various screen sizes and device will be a key consideration.
- **Artificial intelligence integration:** AI powered features such as chatbots and virtual assistants may become more common on department website.