**COLLEGE PORTAL**

Submitted in partial fulfillment of the requirements of the degree

**B.Tech. (Computer Engineering)**

By

**Anuj Pathak - 22CE1149**

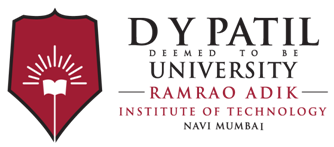
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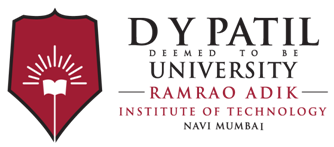


Department of Computer Engineering Ramrao Adik Institute of Technology,

Sector 7, Nerul, Navi Mumbai

(Under the ambit of D. Y. Patil Deemed to be University)

**April 2024**



**Ramrao Adik Institute of Technology**

(Under the ambit of D. Y. Patil Deemed to be University)

Dr. D. Y. Patil Vidyanagar, Sector 7, Nerul, Navi Mumbai 400 706.

# Certificate

This is to certify that, the Mini Project – II entitled

**“COLLEGE PORTAL”**

is a bonafide work done by

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and is submitted in the partial fulfilment of the requirement for the degree of

**B. Tech. in Computer Engineering**

to the

**D. Y. Patil Deemed to be University**

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Supervisor

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Mini Project Coordinator Head of Department Principal

# Mini Project - II Approval

This Mini Project - II entitled **“College Portal”** by **Anuj Pathak - 22CE1149, Saanvi Netalkar - 22CE1145, Anuja Patil - 22CE1152 , Parth Patil- 22CE1032** is approved in the partial fulfilment of the requirement for the degree of **B. Tech. in Computer Engineering**

**Examiners**

**1………………………………………**

(Internal Examiner Name & Sign)

### 2…………………………………………

(External Examiner name & Sign)

Date:

Place:

# Abstract

Introducing our innovative web portal designed exclusively for college students and faculty, offering a comprehensive platform for various administrative tasks. From applying for leaves to managing attendance, accessing mentorship opportunities, reviewing marks and previous pointers, to handling fees and registration, our portal streamlines the entire process. With user-friendly interfaces tailored for both students and faculty, navigating through tasks becomes effortless and efficient. Students can request leaves with ease, ensuring smooth communication with professors. Faculty members can efficiently track attendance and provide mentorship support, fostering a conducive learning environment. Accessing academic records, including marks and previous pointers, empowers students to track their progress effectively. Additionally, the portal facilitates seamless fee payments and registration, simplifying administrative procedures. Moreover, it provides valuable insights by displaying committee members, fostering transparency and collaboration within the college community. Experience enhanced productivity and convenience with our intuitive college web portal, revolutionizing administrative management in educational institutions.

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Acknowledgement

Follow below Formatting guideline and remove this page from final report

#### Project Report Specifications

1. Textual contents must be neatly typed in **one and half** space on A4 size bond paper on one side with **LM**= 1.25”, **RM**=1.25”, **BM**=1.0” and **TM**=1.0”.
2. The font details to be selected for various textual contents are as follows

Chapter heading 🡪 20 pts.

Section heading 🡪 16 pts.

Sub-section heading🡪 14 pts.

Normal text 🡪 12 pts.

Font type 🡪 Times New Roman.

Font style 🡪 Regular.

Font spacing 🡪 Normal.

1. All figures and sketches and diagrams as well as the tables, if any must be properly **numbered** chapter wise and the sequence in which they appear within a chapter. Further, these must be followed by the suitable **captions.**
2. All pages are to be **numbered** in Arabic numerals (1, 2…) starting from chapter 1 and ending with the last chapter 5 including all the **non-textual** pages. All chapters should start from new page.
3. Abstract not exceeding one A4 size page is to be typed in **single space**.
4. Avoid all sorts of colors, decorations and any other face-lifting measures, unless demanded by the **nature** of work carried out by you or unless all the important features are already **embedded** in the report.
5. All regular students appearing for Mini Project-I exam are required to submit one copy to the guide for exam work.

# Chapter 1

# Introduction

**1.1 Overview**

In every college community, bridging the gap between students and faculty while ensuring transparency and ease of access is paramount. Our pioneering web portal addresses this fundamental need by providing a seamless interface where students and faculty can effortlessly navigate a range of essential features. From monitoring attendance to seeking mentorship and accessing past academic performance, the portal offers a comprehensive suite of tools crucial for student success.One of the standout features is the integration of fee payment capabilities directly into the portal. Gone are the days of tedious trips to banks or navigating complex payment systems; students can now conveniently settle their fees and track payment statuses with just a few clicks. This not only enhances convenience but also promotes financial transparency within the college community.

Moreover, the portal boasts a meticulously crafted interface, ensuring smooth and intuitive interactions for all users. This meticulous design extends to faculty functionalities as well, notably in leave management, simplifying administrative tasks and reducing reliance on manual processes. The impetus behind this system stems from the urgent need for a user-centric solution that streamlines operations while catering to the diverse needs of students and faculty alike. By digitising paperwork, automating processes, and enhancing security measures, the portal represents a significant leap forward in modernising college administrative systems. Its implementation promises to revolutionise the college experience, fostering efficiency, transparency, and collaboration at every level.

**1.2 Motivation**

Our motivation for developing this web portal is to enhance the educational experience for students and faculty by simplifying administrative tasks. By consolidating critical functions such as fees management and leave requests into a centralized platform, we aim to empower users with greater control over their academic journey. Our goal is to foster seamless communication and collaboration between students, faculty, and administrative staff, creating a more efficient and transparent system. We envision a future where students can easily manage their financial obligations, submit leave requests, and access academic resources with ease. Similarly, faculty members will benefit from streamlined processes, allowing them to focus more on teaching and mentorship. We believe technology has the power to transform educational institutions for the better, creating an equitable and inclusive learning environment. Through this web portal, we aspire to empower students and faculty to fully engage in their academic pursuits, unlocking their potential for a brighter future.

**1.3 Problem statement and Objectives**

This project addresses the challenge of delivering educational content efficiently to students while improving leave management processes for college teachers. By creating a user-friendly web application, we aim to enhance communication between faculty and administrators, optimizing efficiency and accountability. Through improved resource planning and policy compliance, the project seeks to foster a more reliable college portal, offering enhanced alumni engagement, self-service options, and career services. Ultimately, our goal is to provide a robust platform that streamlines administrative tasks and empowers both students and faculty to thrive academically.

* - Ensure seamless access to student information for students, teachers, parents, and others through a user-friendly interface, promoting easy navigation and systematic presentation.
* - Offer comprehensive information on attendance, mentorship, academic marks, past performance indicators, fees, registration processes, and committee members to facilitate informed decision-making.
* - Provide timely updates on upcoming college fests and events, fostering a sense of community and engagement among students and faculty.
* - Streamline leave management processes in educational institutes through automation, reducing errors, delays, and administrative burden for faculty and staff.
* - Minimize paperwork and enhance record maintenance efficiency by leveraging a centralized database system, ensuring reliable data storage and decreasing the likelihood of data loss
* - Facilitate seamless communication channels between students, faculty, and administration, allowing for timely dissemination of important announcements, academic updates, and institutional policies.
* - Implement a secure online payment system for fee transactions, providing students with a convenient and secure method for fee payments, thereby reducing reliance on traditional payment methods.
* - Integrate feedback mechanisms for students to submit suggestions, complaints, and queries, fostering a culture of transparency, responsiveness, and continuous improvement within the educational institution.

# Chapter 2

# Literature Survey

**2.1 Survey of Existing System**

Existing systems for managing college operations and student administration encompass a diverse array of solutions, each serving unique purposes and catering to specific needs within educational institutions. At the forefront of this landscape are comprehensive platforms like Shiksha, CollegeDunia, Careers360, and GetMyUni, which provide students and faculty members with vital information regarding colleges, courses, scholarships, admissions, and educational resources. These platforms play a crucial role in addressing common challenges faced by students, such as navigating the complexities of higher education and making informed decisions about their academic journeys. In addition to these consumer-facing applications, educational institutions rely on robust enterprise solutions to manage their administrative processes efficiently. Oracle PeopleSoft Campus Solutions, Ellucian Banner, and SAP Student Lifecycle Management are among the most widely adopted systems for managing student data, academic records, financial aid, and other critical aspects of college operations. These systems provide administrators with powerful tools for streamlining workflows, ensuring compliance with regulatory requirements, and enhancing overall operational efficiency.

Central to the operation of these systems is the maintenance of comprehensive databases containing detailed information about each student enrolled in the institution. These databases serve as repositories for student records, demographic information, academic transcripts, and other pertinent data, facilitating informed decision-making and personalized support services for students throughout their academic journeys. Furthermore, fee management is a critical component of college administration, and modern systems offer robust solutions for processing fee payments, managing billing cycles, and generating financial reports. Integrated payment gateways enable students to conveniently pay their fees online, while automated billing systems streamline invoicing processes and reduce the administrative burden on college staff.

Moreover, many colleges opt to develop their own bespoke software solutions for managing leave requests, academic records, course registration, and other administrative functions. These custom-built systems are often developed in-house by the college's IT department or outsourced to software development firms specializing in educational technology. While custom solutions offer the advantage of precise customization and integration with existing infrastructure, they may require significant investment in terms of time, resources, and ongoing maintenance.

In summary, the landscape of existing systems for college management and student administration is diverse and dynamic, encompassing a wide range of solutions tailored to the unique needs and challenges of educational institutions. From comprehensive consumer-facing platforms to robust enterprise solutions and customizable open-source software, colleges and universities have a wealth of options at their disposal for streamlining operations, enhancing student services, and improving overall institutional effectiveness.

# Chapter 3

# Proposed System

# 3.1 Problem Statement

The primary objective of this project is to address the pressing need for a transparent and user-friendly system for both students and faculty within educational institutions. By developing a sophisticated web application, we aim to not only tackle existing issues but also introduce innovative features that enhance efficiency and effectiveness. Through careful design and implementation, the proposed system will offer students access to essential features such as attendance tracking and fee management, streamlining administrative processes and reducing paperwork. Faculty members will also benefit from functionalities allowing them to seamlessly apply for leave and manage their schedules. Moreover, the envisioned web system will prioritize user experience, ensuring smooth navigation and intuitive interfaces. By leveraging advanced technology, we will implement robust security measures to safeguard sensitive data and ensure compliance with privacy regulations. In summary, this ambitious project aims to revolutionize the college experience by introducing transformative changes that promote efficiency, transparency, and accountability. By embracing cutting-edge technology and user-centric design principles, we envision a future where administrative tasks are simplified, communication is enhanced, and valuable resources are optimized for the benefit of all stakeholders.

# 3.2 Proposed methodology/ Techniques

The methodology for this project encompasses the utilisation of various technologies across both front-end and back-end domains, facilitating the creation and functionality of the web application.

Front-end Technologies: HTML, CSS, Javascript:

1. **HTML**: HTML plays a crucial role in defining the structure and layout of web documents, making it possible for web browsers to render text, images, links, forms and various multimedia elements in a coherent and organised manner.

2. **CSS**: CSS is a vital technology in web development that plays in pivotal role in shaping the visual and presentation aspects of web pages. CSS is used in conjunction with HTML to control the layout, design, and overall aesthetics of websites, making it a powerful tool for creating visually appealing and user-friendly web experiences.

3. **JavaScript**: JavaScript is a versatile and essential programming language for web development, enabling interactivity, dynamic content, and enhanced user experiences on the World Wide Web.

Back-End Technologies: PHP, XAMPP, Database Connectivity, MYSql

**PHP**: (Hypertext Preprocessor) will be used as the server-side scripting language for our application.

**XAMPP**: A popular local development environment that includes Apache (web server), MySQL (database), PHP, and Perl. XAMPP simplifies the setup of our development environment on your local machine, making it easier to build and test your web application.

**Database Connectivity**: PHP will connect to the database (e.g., MySQL) included in the XAMPP stack. PHP will handle database operations, including CRUD (Create, Read, Update, Delete) operations for user profiles, food donations, and logistics data.

**Database Management:**

**MySQL** : MySQL is a popular open-source relational database management system (RDBMS) that plays a pivotal role in the storage and retrieval of structured data in a wide range of applications and web services. It is known for its speed, reliability, scalability, and robust feature set

These combined front-end and back-end technologies and framework contribute collectively to the development of a robust and functional web application, proving a interactive and efficient platform for College managament, creating a transparent system for students and faculty.

# 3.3 System designImage

# Image

**Home Page:** The central landing page serves as a gateway for user registration and accommodations distinct sections for various user roles. It offers streamlined registration forms tailored for delivery agents, restaurants and NGOs. User can effortlessly sign up through role- specific registrations forms designed to collect pertinent details. Moreover, the landing page also includes and informative 'About' section, elucidating the platform’s key mission and objectives. It aims to address and mitigate the issues and challenges of the project.

**College Login:** The college login section is only for colleges and this will enable colleges to log into the server and make necessary changes like student attendance and faculty leaves. They can manage the fees mangament etc. The college can keep an eye over all the activities.

**Student Login:** The students can login to their respective profiles to access various student specific features. They can check their attendance or access fees payment. Various news and alerts can also be viewed by them.

**Faculty Login:** The faculty login enables college faculty to access the portal, apply for leaves and check various functionalities provided.

The user-friendly interface of this system harmonises the needs of various stakeholders bridging the gap between students and college. With a robust technological foundation utilising HTML, CSS and Javascript for the frontend and php, XAMPP and Mysql for backend operations

# Chapter 4

# Results and Discussion

# This chapter presents the results generated. Add your project outcomes (screenshots of implementation). This is the brainstorming part. Understand, analyse, visualise why the results are the way they are.

# Chapter 5

# Future Scope

Our future vision involves expanding our user base to reach more colleges, fostering a secure system for all colleges. To realises this vision, we will employ marketing and strategic partnership to spread word about our system design and functionalities. As our project expands, securing additional resources and data servers becomes crucial to ensure seamless functionality as we address a broader range of needs. Our paramount focus revolves around the continuous refinement and optimizing of out real-time matching algorithms. In the future, the College Portal System could undergo several expansions and enhancements to further optimize the user experience and meet the evolving needs of students and faculty. One potential avenue for future development is the integration of additional academic and administrative functionalities. For instance, the portal could incorporate modules for course registration, academic advising, and grade tracking, providing students with a comprehensive platform to manage their academic journey seamlessly. Furthermore, there is scope to enhance the communication and collaboration features of the portal. Implementing interactive discussion forums, online chat support, and virtual classrooms could facilitate more meaningful interactions between students and faculty, fostering a dynamic learning environment. Additionally, integrating multimedia resources and interactive learning tools could enrich the educational experience and cater to diverse learning styles. Moreover, leveraging data analytics and machine learning algorithms could enable the portal to provide personalized recommendations and insights tailored to individual student needs. By analyzing attendance patterns, academic performance, and engagement metrics, the portal could offer proactive interventions and support mechanisms to enhance student success and retention. In summary, the future scope of the College Portal System encompasses a wide range of possibilities for expansion and improvement. By embracing emerging technologies and continually refining the platform based on user feedback and technological advancements, the portal can evolve into a dynamic hub for academic excellence, collaboration, and student success.

Conclusion

In conclusion, the development of the College Portal Web System marks a significant milestone in advancing the educational experience for students and faculty alike. By addressing the need for transparency, efficiency, and user-friendliness, this project has laid the foundation for a transformative platform that streamlines administrative processes and enhances communication within the academic community. Through innovative features such as attendance tracking, fee management, and leave applications, the portal empowers users with the tools they need to navigate their academic journey with ease. Furthermore, its intuitive interface and robust security measures ensure a seamless and secure user experience, instilling confidence in the reliability and integrity of the system. Looking ahead, the future of the College Portal Web System holds exciting possibilities for expansion and enhancement. As technology continues to evolve, there is ample opportunity to integrate new functionalities, improve data analytics capabilities, and further personalize the user experience. By embracing these opportunities and remaining responsive to the needs of its users, the portal is poised to become an indispensable resource for fostering academic success and collaboration within the college community.

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# **ACKNOWLEDGEMENT**

We take this opportunity to express my profound gratitude and deep regards to our guide Ms Kausar Fakir for her exemplary guidance, monitoring and constant encouragement throughout the completion of this report. We are truly grateful to her efforts to improve our understanding towards various concepts and technical skills required in our project. The blessings, help and guidance given by her time to tell shall carry us in a long way in the journey of life on which we are about to embark.

We take this privilege to express our sincere thanks to **Mr. Mukhesh.D.Patil**, **Principal, RAIT, D.Y. Patil deemed to be university** for providing the much needed facilities. We are also thankful to **Dr. A.V. Vidhate, Head of department of Computer Engineering, Dr Siuli Das our Mini project Co-ordinator**, for generous support.

Last but not the least we would also like to thank all those who have directly or indirectly helped us in completion of this report.

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Name of the student 1

Name of the student 2

Name of the student 3