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Survey on Student Information System

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ABSTRACT: -

The Student Information System (SIS) is a comprehensive and user-friendly software solution designed to manage and streamline the administrative and academic processes within educational institutions. This project aims to enhance the efficiency and effectiveness of student data management. This project offers a user-friendly interface that enables administrators, teachers, and students to access and update information effortlessly. The proposed system will provide a centralized platform for students, admin, and teachers to interact with each other. The system will be designed to manage student profiles, view marks, attendance and fee related details. The system will be developed with a user-centric approach, ensuring that the design is intuitive and user friendly, enabling all users to navigate it with ease. The project will be implemented using a variety of technologies, including web-based frameworks, programming languages, and databases.

Key-Words: - Student Information System Admin Login, Student Login, Add Student, View Student, Registration, Update Profile, Add Fees Details

I. Introduction

The education system has been rapidly evolving over the past few years, with the introduction of new technologies and digital platforms that enhance learning and make it more accessible to students all over the world. The online education system is one such platform that has seen significant growth and acceptance by both students and educators. This project aims to develop an online education system that is user-friendly and provides a seamless learning experience to students.

The proposed system will provide a centralized platform for students, admin, and teachers to interact with each other and facilitate effective learning. The system will be designed to manage student profiles, track academic progress, provide access to learning materials, and allow for online assessments. It will also enable teachers to evaluate and grade students, as well as provide feedback and support where necessary.

The system will be developed with a user-centric approach, ensuring that the design is intuitive and user-friendly, enabling all users to navigate it with ease. The project will be implemented using a variety of technologies, including web-based frameworks, programming languages, and databases. The system will be developed to support a range of devices, including desktop computers, laptops, and mobile devices, to ensure accessibility to all users. The proposed online education system has the potential to revolutionize the way students learn and educators teach, providing a platform that is efficient, effective, and accessible to all.

The system has the details of college students like academic information. This is a web oriented application allows us to access the students the whole information of their academics as well as students achievements etc. This application provides a virtual tour of Campus and their own academic details to the users. We create users table in our MySQL server. User login module handles the login activity of users whereas Admin login module handles the login activity of admin. It is accessing college database through a web.It is the smart connect of students and college.

The system is built in such a way that it provides easy navigation to all users and is also easy to use. All the details and entries and updates of students and teachers will be stored in database so it can be used for analysis purpose in future.

II. Problem Formulation

Problem Statement: Many educational institutions still rely on manual systems to manage student information. This can be inefficient and time-consuming, and can lead to errors in data entry and retrieval. Additionally, manual systems can make it difficult to generate reports and track student progress over time.

Proposed Solution: A computerized student information system (SIS) can help to overcome these challenges. An SIS is a software application that automates the collection, storage, and management of student data. So our SIS system will help to store student information like attendance records, grades, marks, personal information.

The proposed system is designed to automate and simplify the management and academic activities. It is intended for use by administrators, teachers, and students. The system provides a centralized platform for managing student information, academic performance, and various other activities. The

system can help administrators manage student enrollment and track academic progress. Teachers can use the system to manage their classes, create and grade assignments and tests, and communicate with students. Students can use the system to access their schedules, view their grades, and communicate with their teachers The system provides a user-friendly interface that can be easily accessed by all stakeholders, including those who are not tech-savvy. It is expected to significantly reduce the time and effort required to manage academic activities and provide a better learning experience for students.

III. Literature Review

This section presents a review of related literature to the study of management information system and students records; the review has been done in accordance with the research objectives which ha e impact of computerized data collection on maintenance of student record, computerized information protection on student record and computerized record management in maintenance of students records in living stone international university. A literature review on student information systems (SIS) typically involves an exploration of existing systems and publications related to the topic. The purpose of such a review is to provide a comprehensive overview of the current state of student information systems.

Preliminary Investigation

- **Current System**

- The Current System for fulfilling the need has solutions for higher education like campus management, infinite campus with attendance and grading features.

- These have proper integrations, customization, good support and communications.

the review of literature on Student Information Systems (SIS) has provided valuable insights into the evolving landscape of educational technology. The literature reveals a significant shift towards the adoption of web-based SIS solutions, highlighting their potential to streamline administrative processes, improve data accuracy, and enhance the overall student experience. The integration of web technologies, such as HTML, CSS, etc. along with frameworks like Bootstrap, has been instrumental in creating user-friendly and accessible SIS interfaces.

IV. Methodology

The system development process will follow the incremental model. The incremental model is a software development process where the product is designed, implemented, and tested incrementally until the product is finished. The development process is divided into smaller parts that are completed and tested separately. Once one part is complete, it is added to the whole product and tested again. The development process continues until the entire product is complete.

The advantage of using the incremental model is that it allows for better control and management of the development process. It also allows for the product to be tested at different stages of development, which ensures that any issues are caught early and can be rectified before they become major problems.

The planning phase of the project will involve identifying the requirements of the system, dividing the development process into smaller parts, and setting timelines and milestones for each part. Each part will be tested before being integrated into the wholesystem.

During the development phase, the team will use agile development methodologies to build the system incrementally. Each iteration will involve designing, coding, and testing the software. The team will use automated testing tools and continuous integration to ensure that the code is error-free and meets the requirements.

Finally, the project will be completed when all iterations have been successfully completed, and the final product has been tested and validated. The project team will provide training and support to the stakeholders to ensure a smooth transition to the newsystem.

We chose to use an incremental development model for this project due to its iterative approach that allows for the system to be developed and tested in small increments, rather than attempting to complete the entire system all at once. This approach is beneficial for several reasons:

- It allows for early feedback and testing, which helps to identify and address issues early on in the development process, reducing the risk of costly errors and rework later on.

- It enables the team to respond to changing requirements by incorporating new features or changes in subsequent increments.

- It breaks down the development process into manageable stages, which helps to simplify the overall process and make it easier to track progress and manage resources effectively.

- It allows for the team to prioritize features and functionality based on their importance or complexity, ensuring that the most critical aspects of the system are developed first.

V. Result Discussions

The expected outcome of the system is as follows:

- Achieved student record management

- Achieved student marks management

- Students' progress report management

- Streamlined administrative tasks

- Assistance to teachers in grading students

- Assistance in tests management

Login page:

Upload attendance:

Student Marks:

Add Student:

Fees Details:

View Student data:

VI. Conclusion

The Student Information System (SIS) project is a visionary initiative that aims to transform educational data management and enhance the learning experience for all stakeholders. By providing an efficient platform, leveraging modern technology, streamlining academic processes, and enhancing real-time feedback, the SIS project can move us towards a more efficient and advanced education system. The proposed system is expected to provide an efficient and user-friendly platform for students, teachers, and admin to manage activities. With the use of modern technologies, the system aims to deliver a seamless experience to the users. The implementation of the system would help in streamlining the academic processes and reduce the manual effort required to manage the academic records. The system has the potential to enhance the experience of the students and provide real-time features. Overall, the system is expected to be a significant step towards a more efficient and technologically advanced education system.

References

[1]. Eileen Bayangan-Cosidon, Student Information System for Kalinga State University-Rizal Campus International Journal of Computer Science and Information Technology Research ISSN 2348-120X (online) Vol. 4, Issue 2, pp: (223-229).

[2]. K.V.Sathiyapriya et al, International Journal of Computer Science and Mobile Computing, Vol.5 Issue.5, May- 2016, pg. 67-75