



ARKAPRATIM GHOSH
13000121058
CSE-A

Student Result Management System

Software Engineering
ESC501

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Introduction

- Introducing the Student Result Management System (SRMS), revolutionizing how we manage academic outcomes.
- SRMS offers educators an intuitive platform to input, track, and analyze student performance effectively.
- Experience instant result updates through SRMS, ensuring swift access to vital academic information.



Scope of the Problem

- Manual result handling is error-prone and time-consuming, affecting efficiency and accuracy.
- Lack of a centralized system leads to difficulties in sharing results promptly with students and parents.
- As institutions grow, managing results without an automated system becomes increasingly unwieldy.



Objective



- Establishing a centralized platform for quick and transparent result sharing among educators, students, and parents.
- Creating a flexible system that can adapt to the needs of educational institutions as they grow.
- Developing a system to automate result management, reducing errors and saving time.

Problem Statement

To tackle the drawbacks of manual student result management and improve overall efficiency, the project aims to implement a comprehensive and automated Student Result Management System.

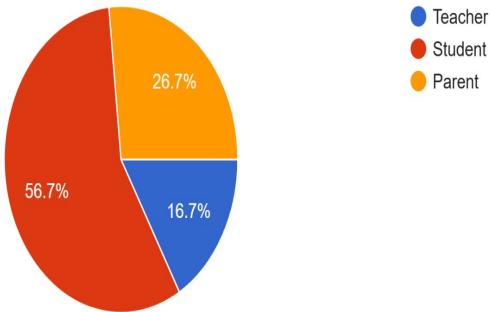


Customer Survey

Link: <https://forms.gle/9i6cnpJvcVoDN6P48>

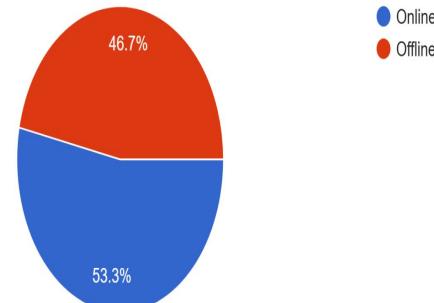
What is the primary role you hold in the educational institution?

30 responses



What kind of result you prefer?

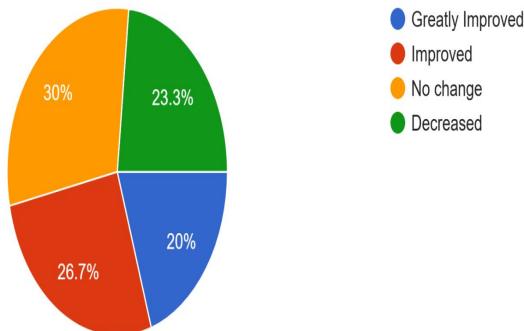
30 responses



Customer Survey (Continued)

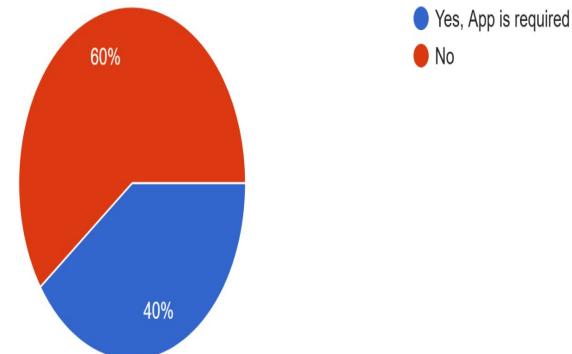
How do you envision the impact of an automated system on communication between educators, students, and parents?

30 responses



Is a dedicated app needed for this purpose or is it fine as web based?

30 responses





Functional Requirements

- ❑ **User Authentication and Access Control**
 - ❑ Implement secure login credentials for administrators, teachers, students, and parents.
 - ❑ Ensure different roles have appropriate access permissions.
- ❑ **Result View and Management**
 - ❑ Develop an user-friendly interface that enables teachers and students to view and modify results.
- ❑ **Communication platform**
 - ❑ Develop a feedback portal or any messaging system for seamless discussion of results or any other queries.
- ❑ **Data Security and Privacy**
 - ❑ Data encryption protocols to ensure protection of sensitive student information.



Non-functional Requirements

- **Correctness Requirement**
 - ◆ Grades and result data accurately reflect the students' actual performance.
- **Portability Requirement**
 - ◆ Easily deployable across various platforms and devices.
- **Efficiency Requirement**
 - ◆ Deliver quick response times while handling multiple users and data.
- **Usability Requirement**
 - ◆ Offer an user-friendly interface for all types of users.
- **Reusability Requirement**
 - ◆ The system's components should be designed for easy integration.
- **Reliability Requirement**
 - ◆ Should consistently ensure uninterrupted access to results and data
- **Maintainability Requirement**
 - ◆ The system's code and architecture should be well-documented.



Benefits

- Real-time notifications keep all stakeholders informed about new results and announcements.
- Easily accommodates the growing number of students and courses without compromising performance.
- Automation minimizes manual errors, ensuring precise recording and calculation of results.
- Instant result sharing fosters transparent interaction between educators, students, and parents.



Conclusion

- The Student Result Management System stands as a transformative solution to the challenges posed by traditional manual result handling
- This system addresses inefficiencies, enhances transparency, and empowers stakeholders with valuable insights.
- The journey from manual record-keeping to an automated, user-friendly platform is a stride towards a more efficient, accurate, and engaging academic experience.
- Accessible performance insights motivate students to excel and take ownership of their progress.
- Customizable and scalable, the system caters to institutions of varying sizes and structures.



References

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Thank you!

