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## Student Management System

*Omkar Galande<sup>1</sup>, Vikas Shinde<sup>2</sup>, Abish Inamdar<sup>3</sup>, Dattatray Shirke<sup>4</sup>*

*<sup>1,2,3,4</sup>Student, Department of Computer Engineering, Samarth Polytechnic Belhe*

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### Abstract

Student Management System (SMS) provides a simple interface for managing student information. It can be used by educational institutions and universities to easily manage student records. Creating and maintaining accurate and up-to-date information about student academic backgrounds is essential for both universities and colleges. The Student Information System handles all types of student details, academic reports, college details, course details, syllabuses, batch details, placement details and other resource related details. Track all student details from the first day of the course to the end of the course. This is used for all reporting purposes, attendance tracking, course progress, semester completed, year, syllabus details for next semester, exam details, project or other assignment details, final exam results, and all of this is available through a secure online interface built into the University's website. It also includes faculty details, batch run details, student details in all aspects, and various academic notices to staff and students updated by the university administrator. You can also easily look up all the activities going on at the university. A wide variety of reports and queries can be generated based on a wide range of options related to students, batches, courses, faculty, exams, semesters, certifications, and even entire universities

**Keywords:** Student Information System, Database

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### Introduction:

The design and implementation of the student information system is to replace the current paper-based records [1]. College Faculties are able to directly access all aspects of a student's academic progress, attendance-details and various activities of students through a secure, online interface [6]. All data is thoroughly reviewed and validated on the server before actual record alteration occurs. In addition to a staff user interface, the system plans for a student user interface, allowing users to access information and submit requests online thus reducing processing time. All data is stored on servers managed by the college administrator and ensures the highest possible level of security. The system features a logging system to track all Users-access and ensure conformity to data access guidelines and is expected to increase the efficiency of the college's record management thereby decreasing the work hours needed to access and deliver student records to users. This system provides a simple interface for maintaining student information. Achieving this goal with a manual system is difficult. This is because the information can be scattered, redundant, and gathering relevant information can be very time consuming. All these problems are solved by the Student Information Management System. It provides an online interface for students, faculty, and staff to increase the efficiency of record management in colleges, reduce the time required to access and provide student records, and create a more secure system. , to reduce time spent on non-value added tasks.

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## 2. Literature Survey:

This section provides an overview of relevant literature on the study of management information systems and student records. Most of these academic institutions still rely on traditional management methods, which mainly involve paperwork and a lot of human effort. Students admitted to institutions that rely on traditional methods of administration have to work very hard just to obtain certificates and other documents. Managers also face the challenge of keeping all records, tracking records, and retrieving records of interest in a timely manner.

### A) A STUDY OF STUDENT MANAGEMENT SOFTWARE:

This paper focuses on providing information to support the operational, management, and decision-making functions of an enterprise or organization. Considering the huge amount of information, it is necessary to modify the student information management system in order to improve the efficiency of student management. This paper sets up a typical student information management system to achieve systematization, standardization and automation of student information relationships.

### B) WEB BASED STUDENT MANAGEMENT SYSTEM:

This document focuses on a simple interface for managing student information. Creating and maintaining accurate and up-to-date information about student academic backgrounds is important for both universities and colleges. It tracks all student details and can be used for all

reporting purposes, attendance, course progress, semesters completed and years tracked. A wide variety of reports and queries can be generated based on a wide range of options related to students, batches, courses, faculty, exams, semesters, qualifications, and even the entire university.

### 3. Objectives:

Provides an online interface for students, faculty, and staff. Increase efficiency in college records management. Reduce the time it takes to access and distribute student records. To make the system more secure. Spend less time on non-value added tasks.

### 4. Proposed System:

In our proposed system, Staff has the installation of entering the pupil details. It reduces the workload of the staffs. The advantage of the system is that it's veritably easy to edit details of the pupil and cancel a pupil when it set up gratuitous. The marks of the pupil are added in the database. These entered details are used to pierce the performance of the scholars. These reports can be view by scholars of the institution. It's easy to filter pupil database for placement using their result. It allows the scholars can view their marks whenever they want. The design of the pupil information operation system contains the home runner which is the first runner of the system. The home runner provides the login runner. The login runner provides the enrolment form for the new druggies

### 5. Methodology:

Both quantitative and qualitative approaches were used in this study [3]. During the design phase, we researched documentation and surveyed existing systems to clarify and verify the facts to be gathered that the systems adhered to. It runs as shown in the diagram below.

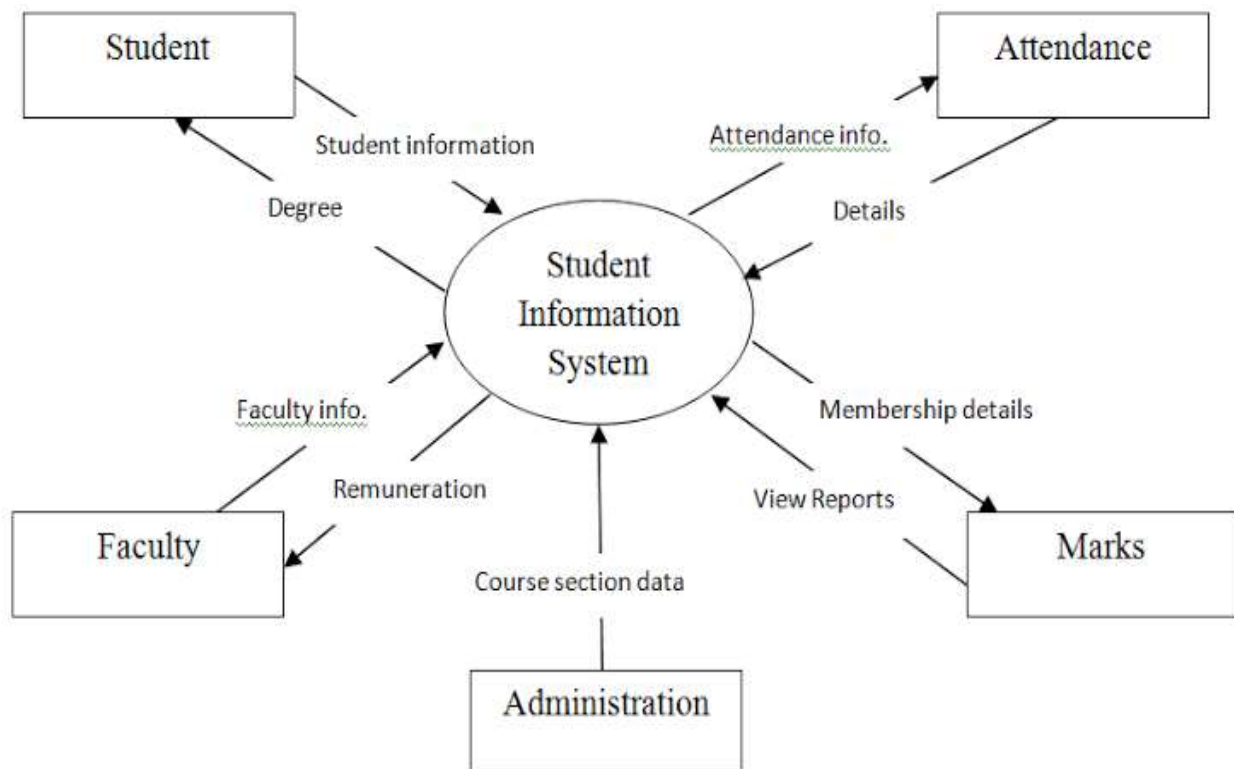


Fig.1 Data Flow Diagram

### 6. Implementation Details:

#### 6.1 Hardware Requirement

Dual Core Processor

RAM 1GB

HDD min 40GB

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## 6.2 Design

HTML, CSS, JavaScript

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## 7. Result and Discussion:

Using SIMS for storing and retrieving data has broad applications for the following reasons: The project provides a simple interface for managing student information. Students have their own user ID and password to access their information. You can check details such as attendance status and grades. This increases the transparency of information. This project also avoids confusion and makes it easier for students to get their data

- The entire project is delivered as an Android app for better usability and portability.
- Provides a secure online system for faculty to enter each student's final grade for the semester.
- We can make the whole system more accurate and provide statistical data.+
- Store student biographical, status, and academic information in a secure and accessible system

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## 8. Conclusion:

It is always wise to choose a Student Information System designed with a modern system architecture to cope with changing needs. This system should include highly secure coding of information and well-defined business applications. System Overview shows the ease of information delivery at your fingertips with accurate data and teaches you how to increase student retention and manage your time effectively.

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## 9. Reference

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