

# Student Information Online Portal

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**Abstract**—The mission of the Student Information Online Portal is to create an integrated information technology environment for students and administration. Our goal is to focus on services and integration for end users. It is a web based self service environment for students, prospective students , an informative environment for all levels of faculty and staff to take the reports and the information of the student , data extraction and performance analysis. It is mainly useful for educational establishments to manage student data which also facilitates all individual associated information. It provides capabilities for entering student results and other assessment scores, and managing many other student-related data needs in a college. Our easy-to-use, integrated college student portal application would be used to reduce time spent on administrative tasks, as to concentrate on other skillful practical activities. It can accept, process and generate reports at any given point of time accurately.

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## I. INTRODUCTION

The design and implementation of the student online portal system is to replace the current paper-based records . College Faculties are able to directly access all aspects of a student's academic progress and various activities of students through a secure, online interface . 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 the maintenance of student information. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using student information management system:-Providing the online interface for students, faculty etc., Increasing the efficiency of college record management, Decrease time required to access and deliver student records, To make the system more secure, Decrease time spent on non-value added tasks.

## II. LITERATURE STUDY

### A. Toward a Student Information System

This paper basically focuses on providing a simple interface for the easy collation and maintenance of all manner of student information. The creation and management of accurate, up-to- date information regarding students' academic careers is critical for students and for the faculties and administration of Bharati Vidyapeeth University, Pune and for any other educational institution. A student information system deals with the proper student information, assessment scores and other student related fields which are required by the administration. All these data need to be made available through an online interface.

### B. A Study of Student Information Management Software

This paper focuses on providing information to support the operation, management and decision-making functions of enterprises or organizations. In the face of a huge amount of information, it is required to possess the student information management system to improve the efficiency of student management. Through this system, the standardized management, scientific statistics and fast query of student information can be realized, and thus the workload of management can be reduced. In this paper, a typical student information management system will be established to realize the systematization, standardization and automation of student information relationships.

### C. Web Based Student Information System

This paper focuses on a simple interface for maintenance of student information. The creation and management of accurate, up-to- date information regarding a student's academic career is critically important in the university as well as colleges. Student information system deals with all kinds of student details, academic related reports, college details, course details, curriculum, batch details and other details too. It tracks all the details of a student which can be used for all reporting purposes, tracking of progress in the course, completed semesters, years. Different reports and Queries can be generated based on vast options related to students, batch, course, exams, semesters.

### III. METHODOLOGY

In this study , both quantitative and qualitative approaches will be used. The design phase was studied by examining documents and researching existing systems for clarity and verification of facts to be collected that are going to be adhered to in our system. It will be carried out as illustrated by the diagram below:

#### 1. SYSTEM DESIGN

The design of the student information online portal includes the design of the home page which provides a way for all the students and administration to access the system. Every user of the system has a unique username and password. The login page mainly contains a login form through which a new user can register, or an existing user can login to the system by entering the username and password or by Google Authentication method.

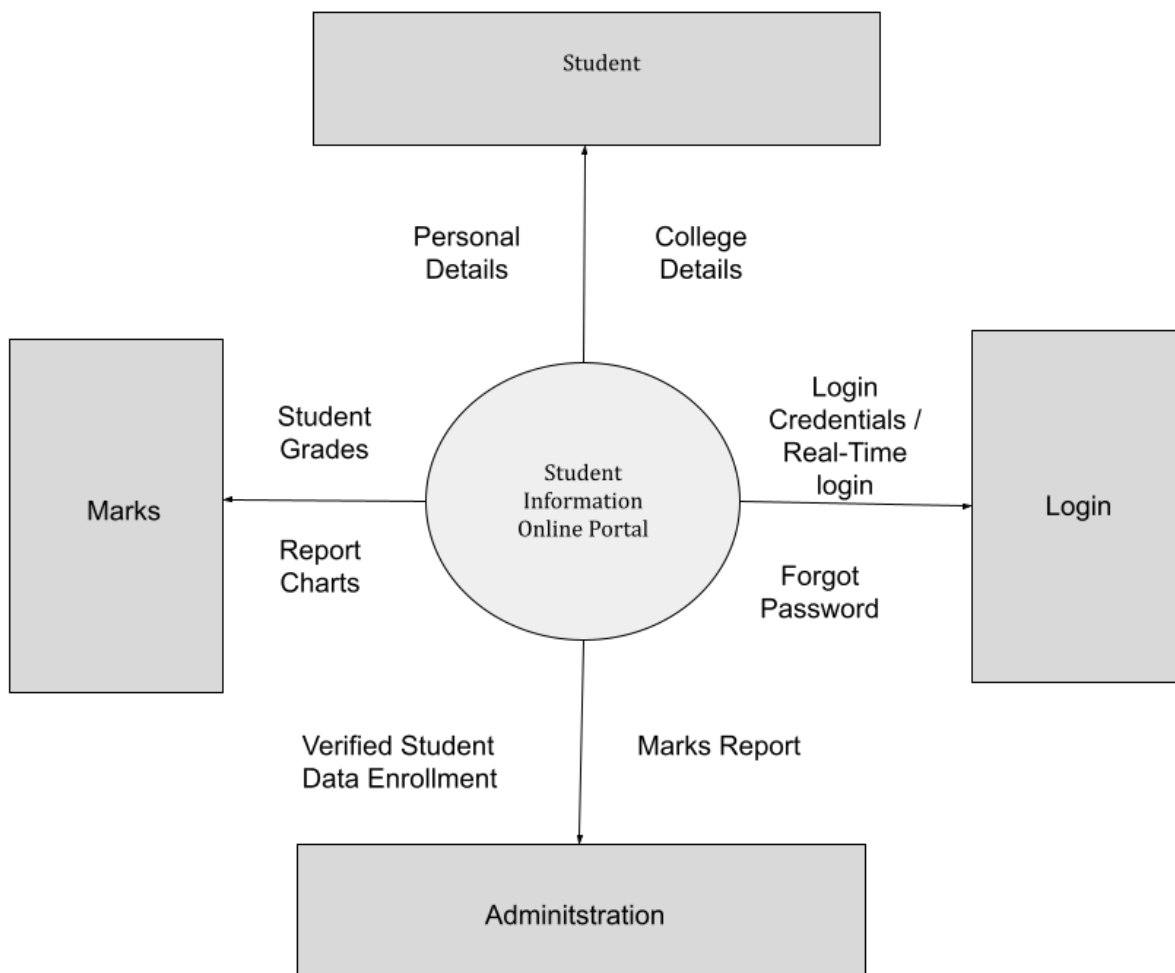


fig 1.1 System design

##### A. STUDENT:

The student is of center focus, because in every college student plays a very important role. Student can access the information of the course details, subject details information wherein the course details include information regarding branch of studying, sem wise subject offered by the branch, the subject details include the syllabus of the subjects, the subjects he presently registered for the semester he is presently studying, internal marks of the subjects, it also contains the semester end results.

##### B. ADMINISTRATOR:

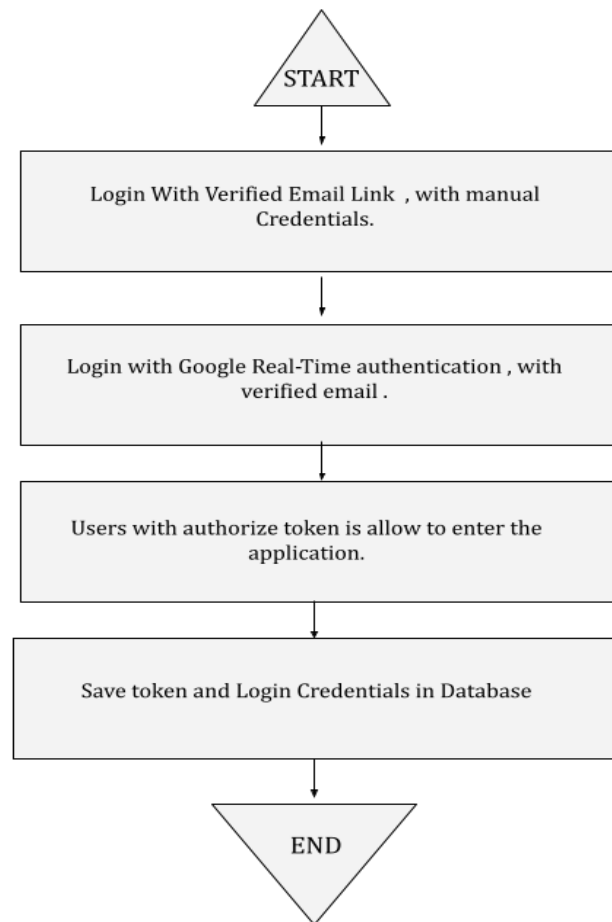
The administrator is responsible for gathering the new student information. Managing the student accounts like any changes regarding the name, address etc. The administrator also manages the adding of the new user and deletion of the new user and detects the fraud or any unauthorized user trying to login . The administrator has the highest level of power in the student information system.

#### 2. SYSTEM SECURITY

##### System security

The authorization algorithm token is implemented whenever dealing with sensitive data such as passwords, bearer token ,

authorization , etc. It is the process where people who try to login without any Token provided by Google will tell the user unauthorized and give an error and tell the user unauthorized and exit the system.



#### IV. CONCLUSION

It is always prudent to opt for a student information system that is designed using modern system architecture to cope with changing requirements. This system should encompass very solid information coding and distinctly outlined business applications. The overview of the system elaborates the ease of information delivery at the tip of your fingers with precise data and increases the retention rate of students and teaches them how to manage their time efficiently.

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