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# A Review paper on Student Information Supervision System

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## ABSTRACT

***In this paper, Student Information Supervision System gives path for maintaining of student information & also provides the guideline for students in different areas. It can be used by educational institute or colleges to continue the records of students without problems. New Teaching learning process is also required in current market scenario so as to aware about the students regarding the recent advances in teaching and educational field.The formation and organization of exact, up-to-date information concerning a students' educational profession is extensively important in the university as well as colleges. Student information system deals with all kind of student details, learning related information, college details, course particulars, set of courses, group details, placement details and other resource related details too. It tracks all the details of a student from the day one to the end of the course which can be used for all treatment purpose, tracking of presence, progress in the course, completed semesters, years, approaching semester year syllabus details, examination details, project or any other assignment details, final exam result and all these will be available through a protected, online interface fixed in the college's website. It will also have faculty details, batch execution details, students' details in all aspects, the various educational notifications to the workers and students updated by the college administration. It also make easy us explore all the performance occurrence in the college, Different information and Queries can be generated based on unlimited options related to students, group, course, faculty, exams, semesters, documentation and even for the complete college.***

**Keywords***: Student Information System, record, HTML, SQL.*

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## 1. INTRODUCTION

In this paper the concentration is mainly towards the maintain the student information in proper way & also provide the different facilities to the students such as idea related to the placement, exam section details etc. The design and operation of a student in sequence system and user limit is to replace the current paper records [1,2]. College Staff are able to directly right of entry all aspects of a student's educational progress through a secure, online interface fixed in the college's website. Furthermore, each sub-system has validation allowing authorized users to create or update information in that subsystem. In addition to a personnel user interface, the system plans for student user boundary, allowing users to access information and submit requirements online thus reducing dispensation time. All data is stored strongly on SQL servers manage by the college commissioner and ensures maximum possible level of safety. The system quality a complex categorization system to track all users access and make sure conventionality to data access course of action and is normal to increase the good organization of the college's record organization thereby decreasing the work hours needed to access and transport student records to users.

While paper records are a conventional way of managing student data there are several drawback to this method. First, to convey in sequence to the students it should be displayed on the notice board and the student has to holiday the notice board to check that information. It takes a very long time to communicate the information to the student. Paper records are complicated to manage and track. This system provides a simple crossing point for the

continuation of student information. It can be used by educational institutes or colleges to keep up the records of students easily. All these problems are solved using online student information management system. A paper focuses on presenting in sequence in an easy and comprehensible manner which provides conveniences like online registration and outline creation of student's thus plummeting paper work and automating the record production process in an instructive institution.

## 2. RELATED WORKS:

### 2.1 Purpose

The idea is to design a web application which contains up to date in sequence of the college. That should look up competence of college record organization.

### 2.2 Objective

- Online interface for students, ability, etc.
- Increasing the good organization of college documentation organization.
- Decrease time necessary to access and transport student accounts.
- To create the organization more protected.
- Decrease moment in time spent on non-value additional odd jobs.

## 3. SYSTEM DESIGN

This deals with data flow diagram, detailed flow graph, requirement analysis, and the design process of the front and back end design of the student information management organization.

### 3.1 Data Flow Diagram(DFD)

Modelling is one of the parameter which play an important role in designing some project or application.DFD is a one of the graphical modelling tool .DFD represents the entire flow graph of the project from starting point of project to end of project. A Data Flow Diagram (DFD) is a graphical representation of the "flow" of Student Information System. A data flow diagram can also be used for the dream of Data Processing [3].DFD shows the communication between the system and external entities. This context-level DFD is then "exploded" to show more detail of the system being modelled. A DFD represents flow of data through a system. Data flow diagrams are commonly used during problem examination. It views a system as function that transforms the given input into required output. Movement of data through the different transformations or processes in the system are shown in Data Flow Diagram of Fig. 1.This seminar mainly focuses on the control the information of the students, faculty, placement cell information, exam section, related information of the college which is maintain by the college management through various levels of controlling. The function of the individual entities will be explained in detail in the flow graph.

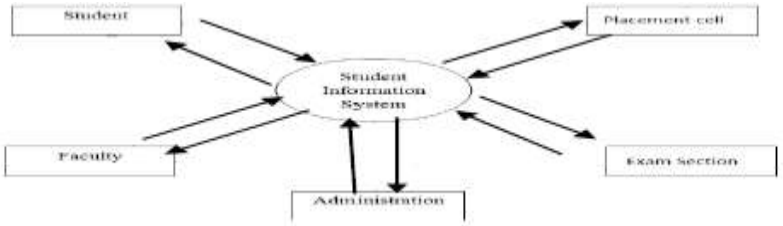


**Fig-1: Data Flow Diagram [1]**

### 3.2. Detailed Flow Graph

In this hierarchical representation is given regarding the student information system. The detailed flow graph is shown in Fig. 2 .The design of the student information management system includes the invent of the home page which give the technique for all the students, organization and other client to access the SIMS. All customer of the SIMS has a single username and password provided by the web master of the institution. The home page mainly

contains a login form through which a new user can register, or an active user can login to the system by incoming the username and password provided by the web master.

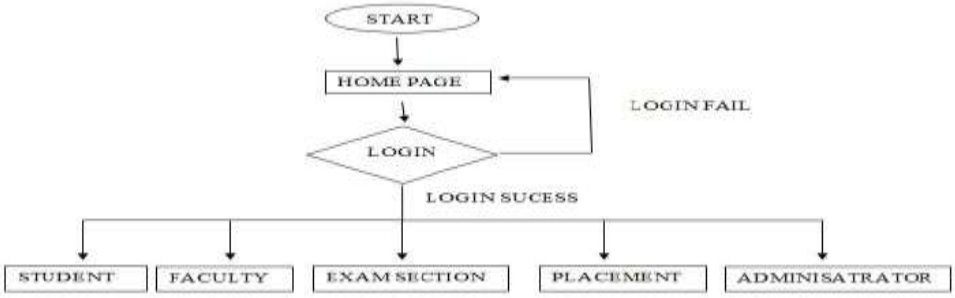


**Fig-2: Detailed Flow Graph for SIMS [1]**

### 3.2.1 Student:

The student is of canter focus, because in every college student acting the very essential role. Student can access the information of the college, course information, subject details, faculty details, training in addition to placement cell information and exam segment information. The course details include information about branch he is studying, the academic curriculum of the college, year wise subject accessible by the branch, the subject details include the programme of the subjects, information concerning the staff management the subjects, the subjects he currently registered for the semester he is presently studying, attendance and internal marks of the subjects, he can also invite any queries to the staff regarding the subjects. The placement details include the information about the companies, the eligibility criteria for attendance recruitment of the companies, the process of recruitment, the date and time of the recruitment. The placement cell updates the student's information that got selected for a company. The exam section details include the internal and external time tables, the room allotment for the exams, it also contains the semester end results.

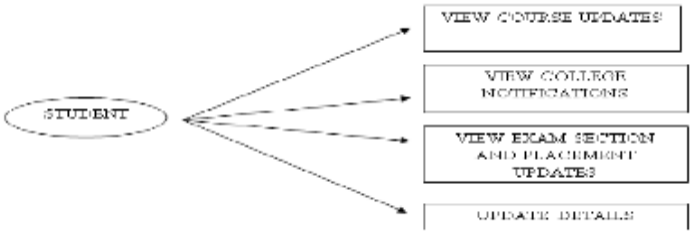


**Fig- 3: Student Information [1]**

### 3.2.2 Faculty:

The employees can update the information concerning the students presence, internal marks of the students and any information regarding the subjects they touch. They can also view the student details for better understanding the student routine and improving the competence of the student. The staffs also gets the update from the college regarding any events occurring in the college. They can also obtain the notification from the post cell and examination segment.

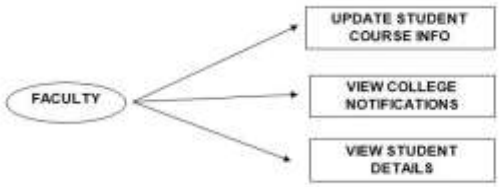


**Fig- 4 : Faculty Information [1]**

### 3.2.3 Exam Section:

The examination section is accountable for updating internal and external examination time table. They are also responsible for the updating the management list for the faculty and class room allocation for the students in the assessment. And they are accountable for the examination and approving the internal marks details efficient by the personnel.

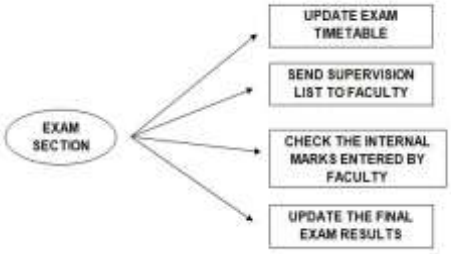


**Fig-5: Exam Section Information [1]**

### 3.2.4 Placement Cell:

The placement official is responsible for updating the situation related information like appropriate criteria for a exacting company, external date for the company which is coming for employment, the list of students who are qualified for attending the recruitment process. The list of student who got placed in a company and the placement officer can access the student information from the student database for select the qualified candidates list for placements. He also can send notifications to students concerning any information.

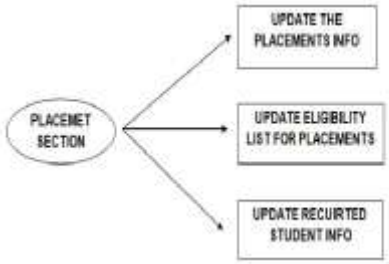


**Fig- 6: Placement section Information [1]**

### 3.2.5 Administrator:

The administrator is responsible for incoming the fresh student, promoting the student from one class to another, from one semester to another and from one year to another. Managing the student accounts like any changes concerning to the name, address etc. The administrator also manages the faulty accounts like incoming a fresh faculty, transmission the faculty to the subjects. The administrator also updates the college related information like calendar of events, information about any other events that happen in the college. The administrator will check the all the updates i.e. student updates, faculty updates, exam updates etc. The administrator has the top level of power in the student information system.

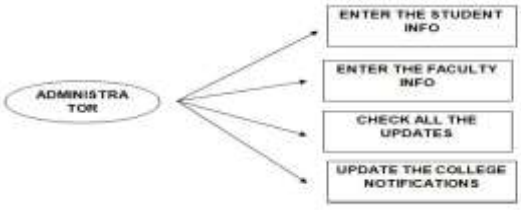


**Fig-7: Administrator Information [1]**

## 4. REQUIREMENT ANALYSIS

The basic needs for the plan of the Student information system are

- Every client should have their personal identity Login service.
- User can renew his/her private information and can view the notice, marks, appointment and exam Section updates etc.
- Faculty, placement and exam sections can renew every of the information.

### 4.1 Functional Requirements

Student information management system aims to progress the good organization of college information management, and the major job is managing and maintaining information[4]. The administrator and students are two major useful needs in the system. The Administrator will be given new powers (enable/disable/ update) than other users. It will be ensured that the information entered is of the acceptable arrangement. For example name cannot contain numbers. In case if incorrect form of information is added, the client will be asked to load the information another time. Students use the system to query and enter their information only.

### 4.2 Non-Functional Requirements

#### 4.2.1Performance Requirements:

The proposed organization that we are leaving to develop will be used as the chief performance system for helping the organization in management the whole database of the student studying in the organization. Therefore, it is accepted that the record would perform functionally all the requirements that are individual.

#### 4.2.2Safety Requirements:

The database may obtain crashed at any certain moment due to virus or operating system failure. Therefore, it is required to take the database backup [5].

#### 4.2.3Security Requirements:

We are leaving to develop a protected database. There are different categories of persons namely Administrator, Student who will be viewing either all or various particular information from the database. Depending upon the category of user the contact rights are decided. It means if the client is an administrator then he can be able to modify the information, append etc. All other users only have the rights to take back the information about record.

## 5. DATABASE DESIGN PROCESS

It is just to say that database [1] take part in a critical function in almost all areas where computers are used, including company, electronic commerce, engineering, medicine, law, education, and library science. A database is collection of a interrelated data.

A database has the following embedded properties:

- A database represents some feature of the actual world, sometimes called the mini-world or the Universe Of Discourse (UOD) changes to the mini world are reflected in the record.
- A database is a logically coherent set of data with some natural importance. A random collection of information cannot right be referred to as a database.
- A database is designed, built, and occupied with data for an exact reason. It is an planned group of users and some preconceived application which these users are interested.

**5.1Database Management System (DBMS)** is a set of programs that enables users to create and maintain a database. DBMS is a common –purpose software system that facilitates the process of important, constructing, manipulating, and sharing database between different users and applications. Defining a database involves the specifying the data types, structure, and constraint of the data to be stored in the database. The database definition or descriptive information is also stored in the database in the form of dictionary; it is called Meta data construct ing the database is the process of storing the data on the storage standard that is controlled by the DBMS. Application program accesses the database by transport queries or request for data to the DBMS. A query typically causes some data to be retrieved; a transaction may cause some data to be read and some data to be written into the record.

### 5.2Technologies Used

#### 5.2.1Html

HTML is also useful language for making a website.HTML is a hypertext mark up language which is in reality a backbone of any website. HTML consist of different tags used for different purpose.Every website can't be prepared without the information of html. If we create our [1] web page only with the help of html, than we can't insert many of the successful features in a web page, for making a web page more successful we use different platforms such as CSS. So here we are use this language to make our web pages more useful as well as competent. And to make our web pages dynamic we are using Java script.

#### 5.2.2CSS

CSS Stands for "Cascading Style Sheet." Cascading style sheets are used to arrangement the design of Web pages. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page's HTML. The basic reason of CSS is to divide the content of a web document (written in any markup language) from its management (that is written using Cascading Style Sheets). There are a lot of benefits that one can remove through CSS like improved content ease of access, recovered flexibility and moreover, CSS gives a point of control over different arrangement characteristics of the document. It also helps in reducing the difficulty and helps in saving general arrangement time. CSS gives the option of selecting different style schemes and rules according to the needs and it also allows the similar HTML document to be presented in additional than one varying technique.

#### 5.2.3 Java Script

JavaScript is consider to be one of the most famous scripting languages of all time. JavaScript, by definition, is a Scripting Language of the World Wide Web. The main usage of JavaScript is to add various Web functionalities, Web form validations, browser detections, creation of cookies and so on. JavaScript is one of the most popular scripting languages and that is why it is support by almost all web browsers available today like Firefox, We use the browser Opera or Internet Explorer. JavaScript is considered to be one of the most powerful scripting languages in use today. It is often used for the development of client-side web development. JavaScript is used to make web page more interactive and dynamic. JavaScript is a light weight programming language and it is embedded directly into the HTML code. JavaScript, as the name suggests, was influenced by many languages, especially Java.

#### 5.2.4PHP

PHP is a server-side scripting language for initial dynamic web applications. Using PHP, one can construct interactive and dynamic websites with ease. PHP script can be fixed directly into the heart of html code. PHP is well-matched with various web servers like Apache and the Microsoft's IIS as healthy. All the PHP scripts are executed on the server and it supports different databases like MySQL, Oracle, Solid, Generic ODBC etc; though, it is mainly used with MySQL.

#### 5.2.5 SQL

SQL stands for Structured Query Language. SQL let us right to use and control databases. SQL is an ANSI (American National Standards Institute) standard. SQL can carry out queries touching a database ,get back information from a database, place in records in a database, renew records in a database, remove records from a database, produce fresh databases , produce fresh tables in a database , produce stored events in a database, generate view in a database, place permissions on tables, procedures, and view.

## 6 ADVANTAGES AND DISADVANTAGES

### 6.1 Advantages

1. Wider contact and environmental increase.
2. Larger audience.
3. Better option to find accurate candidate faster/with greater success.
4. 24/7 - no for the future for issue dates.
5. More rapidly and time saving/price saving
6. Comparatively cheap
7. Better competition of workers - vacancy
8. Good organization gains

9. Cost saving/saving employees costs
10. Right to use inactive jobseekers
11. Decrease of without qualifications candidates.
12. Additional opportunities for less important companies

### 6.2 Disadvantages

Apart from the different benefits, e-recruitment has its personal share of shortcomings and disadvantage. Several of them are:

1. Transmission and checking the skill mapping and accuracy of millions of resumes is a difficulty and time intense exercise for organizations.
2. There is small Internet access and no access and lack of consciousness of internet in various locations across India.
3. Organizations cannot be responsibility exclusively and completely on the online recruitment methods.
4. In India, the employers and the employees unmoving prefer a face-to-face communication rather than transfer e-mails.

## 7. CONCLUSION

Student Information Management or Supervision system provide the best facility and also gives the idea regarding updation in educational institute, placement info etc. It assists in automating the existing instruction manual organization. This is a paperless work. It can be monitored and forced distantly. It reduces the man power necessary. It provides perfect information forever. Malpractice can be reduced. All existence together gathers information can be saved and can be accessed at any instant. The information which is stored in the repository helps in taking intelligent decisions by the organization. So it is improved to have a Web Based Information Management system. Everyone the stakeholders, faculty and organization can get the necessary information without delay. This organization is necessary in the colleges/hostels and university.

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