

STUDENT INFORMATION MANAGEMENT SYSTEM

Mr.Ritesh Ramchandra Landage, Ms.Pranjal Navnath Daphal, Mr.Gaurav Madhukar Dafal,
Mr.Abhishek Balasaheb Daphal, Dr.Aniruddha S. Rumale

Department of Computer Engineering, G H Raison College of Engineering & Management, Pune.

Abstract: Whenever we are in a need of college calendar, attendance status, exam results etc. we need to go to the faculty. We always used to think what if we had a database where we can get all these things at a single place. The best solution to that is website which stores and handles the data of students at a single place. So our aim is to create a website which stores the data of the students at a single place. The faculty members and administrators can add, delete and update information of the students accordingly. Even the website will contain the videos and images of college functions or any other events. Only that. Students login is handle by user login module whereas faculty and administrators can login as admin to handle students details.

Keywords: Web Technology, administration, maintain records, Smart connect, student information management system, virtual tour, mysql, nodejs

I. INTRODUCTION

In The earlier system of college to maintain students records was manual paper based system. This system has lots of disadvantages as handling of paper records is very tough as well as time consuming process. In addition to that there was chances of data lost.

To overcome these problems and to enhance the process of student's data storage , provide better way to add ,update ,delete and render the data effectively and manage the user's access to the database effectively we can use this simple interface provided by Students Information Management System.

Title of the project is Students Information Management System is defined as an web application that aims to all the level of management providing information within an organization .This system can be used as information and data sharing system for the college.

For given student/staff the administrator stores the login id and password using these students/staff can access the system either to view details or update details. The front-end will be ReactJs containing CSS, BOOTSTRAP for webpage design and javascript for client-side validation .Third layer of database will interacted with these layers, which would be Mysql database and nodejs. The server will be XAMP server. The database management system would be MY SQL and nodejs.

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.

II. LITERATURE SURVEY

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.

Theoretical Under-pinning of the Study: According to the university of Florida(2012) explained that student is an individual who is registered for a university credit course or program. A student record, also known as an educational record , obtains information directly related to a student, which means that the record is personally identifiable. Personal identifiers that relate a record to a student include student name , student id, student address , parent/family member names, and list of personal characteristics. Students records are maintained in multiple media including handwriting, print, computer's main memory, magnetic tapes, cassette ,disk pr CD etc. Students records may be presented by student, submitted on behalf of the student ,or created by the university .These records are use to assist offices in their support of basic institutional objectives and document student progress and achievement in the educational process of the university.

Computerized Data Collection on Maintenance of Student Records

According to Sharapova(2014) noted that systematic literature review was employed as follows:

- 1)A variety of combinations of search strings were applied to selected scientific databases and search engines. The search string matrix was developing continually through output the review process.
- 2)Papers pre-selected on the basis of their title and abstracts were downloaded to the citation manager ,together with their full text
- 3)All duplicates ,multiple entries and irrelevant papers were removed; remaining papers were scanned for information of interest.
- 4)When a relevant document was cited that had not been previously identified by database queries ,it was downloaded.

Computerized Information Protection on Students Record.

According to kyobe ,South African university (2009) explained that computerized Information security issues (e.g. access to information ,cyber-crime ,privacy, and virus Attacks, and commercial data mining) are major concern in academia today Myler and Broadbent (2006). According to Wamukoya and Mutual (2005) noted that poor security and confidentiality controls have been identified as major factors contributing to the failure of capturing and preservation of electronic records in eastern and southern African institutions of education.

Chinyemba and Ngulube (2005) found that 89% of the academic surveyed at the university of KwaZulu-Natal did not adequately protect and secure their electronics records. Jones and Soltren (2005) found that 58% of the students surveyed were not concerned at all about risks to privacy on social network sytems. However, little protection of the information of the student is not secure because other students access the information about other students or colleagues without permission hence the need for proper protection for the student records well.

Computerized Record/Data Management on Maintenance of Student Record.

According to student records manual prepared by the University of South Florida the creation and maintenance of records relating to the students of an institution are essential to:

- Managing the relationship between the institution and the student;
- Providing support and other services facilities to the student;
- Controlling the student’s academic progress and measuring their achievements ,both at institution and subsequently;
- Providing support to the student after they leave the institution .In addition , student record contain data which the institution can aggregate and analyze to inform future strategy, planning and service provision. Educational universities and agencies are required to confirm to fair information practices. This means that person who are subjects of data systems must:
 - Be informed of the existence of such system.
 - Have identified for them what data about them are on record,
 - Be given assurances that such data are used only for intended purposes.
 - Be certain that those responsible for data systems take reasonable precautions to prevent misuse of data.

According to Allen(1989) analyzed some studies undertaken to analyze parton’s response to using bibliographic database on CD-ROM in academic libraries and found that patron prefer CD_ROM to comparable printed reference tools. Lombardo and Condic (2000) set out determine user acceptance of the On-line Public Access Catalogue (OPAC) and found that users preferred OPAC and found it easy to use.

III. PROPOSED SYSTEM

The design of the student information management system contains the home page which is the first page of the system. The home page provides the login page using which user can login in the system using their unique login credentials. The login page provides the registration form for the new users Through which they can register themselves in the system.

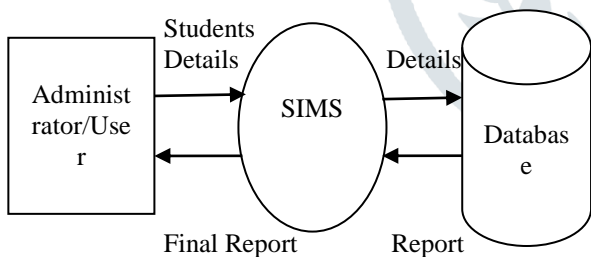


Fig 1. LEVEL 0 DFD OF SIMS

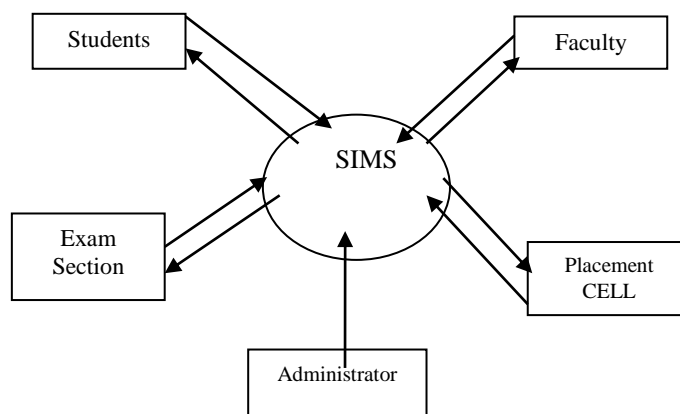


Fig2. LEVEL 1 DFD OF SIMS

A. **STUDENT:** The student is the most important factor of the college because in every college student plays the very important role.

Student can access the information of college, attendance details, placement details ,marks details and their basic details. The college details contains the details of various activities of college, college timetable etc. The attendance details contains the details of student overall attendance based on their subject wise attendance. The graph of students attendance is available for the ease of understanding. Placement details contains the data of companies which visited the campus and the upcoming drives .It also provides the list of students who are placed in some of the companies. Students can view their performance in the exams in marks details. Basic details contains the basic information of the students.

B. **FACULTY:** Each teacher maintain the record of students attendance and marks.Teachers upload the attendance file into the system based on which attendance of each student is updated. Administrator can send the notification to the teachers related to various events happening in the college. Teachers can view the student records to analyze the performance of particular student.

C. **EXAM SECTION:** The exam section handles the details of exam timetable, allocation of classrooms for particular exam etc. The internal marks and results of the student are approved by the exam section.

D. **PLACEMENT CELL:** The placement cell is handled by the placement officer who updates the placement details. The placement officer upload the list of students who got placed in companies. He also handles the information like eligibility criteria.

E. **ADMINISTRATOR:** The administrator has the responsibility of handling the entire system. Administrator has eye on the each activity of the system. Administrator adds the new user in the system. He can update the basic details of the student like change in name, mobile number ,email id, address etc. He is responsible for removing the unwanted user. He update the college details like event calendar etc. also sends the notifications of the events to the faculty.

IV. RESULT

1.Home Page:

The system starts with the home page.The home page contains the details of college like college mail id,facebook id,linkedin id etc.

2.Login Page:

The user enters the username and password to login into the system. The users with correct login credentials can successfully login into the system. It also provides the option of registration to the new users.

3.Registration Page:

New users can register into the system using this form. In this form users enter their details. After providing all details user get registered into the system.

4.Forgot Password Form:

If the users forgot their password they can give their email id for password recovery purpose using this form.

5.Dashboard:

The dashboard contains the links of users academic details.

6.Attendance Page:

On the attendance page students can view their attendance details.

7.Marks Page:

On this page students can view their internal marks.

8.Placement Details:

On this page students can view placement details.

9.Basic details:

On this page students can view their basic details.

V. FUTURE SCOPE

Using SIMS for the data storage and retrieval has the high scope because:

The project provides simple interface for maintenance of student information.

The students will have their own user id and passwords to access their own info they can go through only their details such as attendance ,marks etc. This will increases the transparency of the information. And the project avoid the confusion and make it simpler for the students to get their own data.

1.In the Future the students can also be able to upload or download notes

2. The whole project will be made available as an android app for far more ease

VI. CONCLUSION

We conclude that the present system would definitely help the user by saving time and effort by reducing the processing time. The efficiency of the information handling done would be improved. The user satisfaction would be definitely higher when compared to the old manual system.

VII. REFERENCES

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