
“SURVEY PAPER ON STUDENT-DEPARTMENT INTERFACE SYSTEM”

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ABSTRACT: *The creation and management of accurate, up-to date information regarding a student’s academic career is an acute part of any educational institutes in which most of the work till now is being done manually. The main aim of this system is to automate the existing manual system. In the proposed system student has to get registered and validated in case of fake student in order to access the website. This system provides a simple interface for the better interaction between students, faculties of the department. The system deals with all kinds of student details, academic related reports, curriculum, batch details and other related details too. It tracks all the details of student from the first day to the end of course which can be used for all reporting purpose, progress in the course, exam details, coming semester details, project details, training and internship details, account details, and all other details available through a secure, online interface. It will also have faculty details, students details in all aspects, various academic notifications generated by college staff. The administrator of the college will manage and update the entire system. This system helps in reducing the paperwork and time required for accessing the student information.*

Keywords: SIS project, PHP, Student Tracking System, Student database, MySql

1. INTRODUCTION

The system is essential in gathering all information and also data of all students or members in one organization to be in one place. This system mainly focuses on recording and updating the information of student. College staffs are able to directly access all aspects of a student’s academic progress through a secure and online interface [1].

The system utilizes user authentication, displaying only information necessary for an individual duties. Additionally, each sub-system has authentication allowing authorized users to create or update information in that sub-system. Previously, the college depends on paper records for this initiative. Paper records are difficult to manage and track. 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. This system provides a simple interface for the better interaction between students, faculties of the department.

The student will use the system to enter their personal, academic, interest, internship/ training and project details.

The system also provides a helpdesk where they can post queries regarding a particular subject, viewing notices generated by the faculty/admin.

The faculties can verify the details entered by the students. They can also broadcast the changes in schedules or any new upcoming events to the students [3]. The system will generate report on the basis of marks where faculties can take number of actions for the betterment of student like remedial classes, workshops and counseling.

The administrator has the authority of updating student details, enabling/disabling users. The system provides a search option though which student details can be accessed by faculty/admin.

The system ensures congruity to data access guidelines and is expected to increase the efficiency of college’s record management thereby decreasing the work hours needed to access and deliver students record[2]

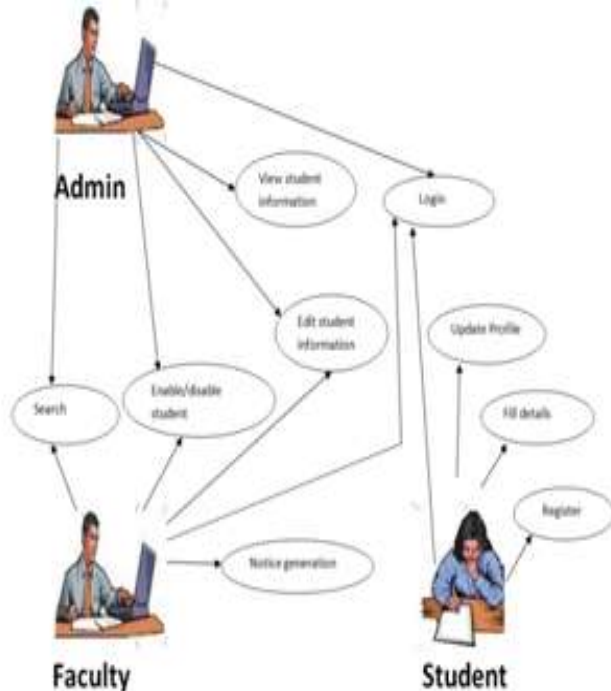


Figure 1: General structure of Student-Department Interface System

2. LITERATURE SURVEY

‘Web based Student Information Management System’ [1]: This paper mainly focuses on managing the information of the students, faculty, placement cell information, exam section, related information of the college which is maintained by the college administrator through various level of controlling. The basic requirements of this system are every user should have their own identity, login facility, user can update their information, can view the notice, results, placement and exam section updates etc. The system aims to improve the efficiency of college information management.

‘A Review paper on Student Information Supervision System’ [2]: The idea of this paper 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. Advantages of this system are good organization gains, better option to find accurate candidate faster/with greater success, comparatively cheap. Disadvantage of the system is that there is small internet access and no access and lack of consciousness of internet in various locations across India.

‘An Android Application for Student Information System’ [3]: The main objective in this paper is to add mobility and automation to the process of managing student information in an institute .The proposed system is an Android

application to manage student details on mobile and keeping them updated about latest events in college. It includes report generation of attendance reports for lecturers as well as practical’s for individual student for each subject. Other reports such as academic details record also can be generated, etc.

‘Online Student Resource Management using HTML5 and Angular-JS’ [4]: The paper proposes a system that is an intranet based application which can be accessed within the organization. It also provides easy transaction of book through online library management where student can download the uploaded books for study. In this system student and faculty can apply for leave which can be approved and processed by the administrator which was done earlier by writing a letter and getting permission from the staff by wasting lot of time. Placement department can also upload the placement details like eligibility criteria, the list of companies visiting the college and student eligible list for a particular company.

‘Framework for Web Based Student Record Management System Using PHP’[5]:The propose system of the paper is to track all the details of student from very first moment to the end of course which could be utilized for all reporting purposes, tracking of attendance, progress in the study, completed semesters, years, coming semester year, curriculum details, fee details, project or any other assignment details, final exam result and all these will be available through a secure, online interface in the college student record management system.

‘Development of Student Information System’ [6]: The paper mainly focuses on development of the student information system. This system uses Rapid Application Design methodology. The methodology in this paper is divided into four components which are literature review, database design, creating a graphical user interface and finally is the software testing. This methodology method follows the System Development Life Cycle (SDLC) that in a sequential and structured way.

‘www.edusec.org’ [7]: This site provides a demo of Student Information System- Detailed student (current, formal, detained, alumni members) profile with photo and documents i.e. LC, mark sheets etc. It also provide student login details, extracting entire information to different formats e.g. excel, pdf. The system is highly customizable & search driven report for a student information.

3. PROPOSED SYSTEM

The objective of the design of a new system is to ultimate the current procedure of managing and controlling the information about the student details and to reduce the overhead of managing paper documents for every announcement and notices being made. The proposed

system will keep the information on central server while allowing users to access that information from the web application. There will be an optimized database on the server and an improved user interface on each client machine. The developed application will be used by students, faculties and administrator. The functionalities of the proposed system divided into four well defined modules:

Registration and Login: The student should be able to register through the application by providing the details required for registration and should get validated at the same time. Starting from 2nd year i.e. 3rd semester, it is required that user should register for the application. After registration the student can login into system by providing the user id and password.

Student Module: Once the student has gained the access to the portal with user id and password they can fill the personal, academic, guardian, address, internship/training, project and other details. They can view notices generated by admin/faculty, profile, marks, account or any other details. They can also post queries regarding a particular subject. They can update their information.

Faculty Module: The faculty has gained the access to the portal with the user id and password they can update the information regarding student marks and any information regarding the subjects they handle. They can also search student and view student details for better understanding of the student performance and improving the efficiency of the student.

Administrator Module: The administrator is responsible for managing the student accounts like any changes regarding to the name, address etc. The administrator also manages the faculty accounts like entering new faculty, assigning the faculty their respective duties. The administrator can also search student and view student details for better understanding of the student. The administrator also updates information regarding any events that occur in the college. The administrator has the authority to enable/disable student or faculty. The administrator will check all the updates that is student updates, faculty updates etc. The administrator has the highest level of power in the student information system.

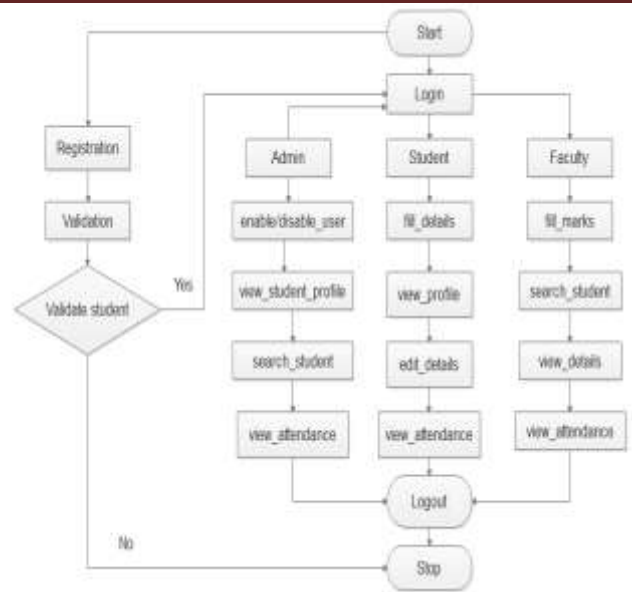


Figure 2: Flow chart

The Figure 2 explains the flow of the system where student need to register themselves. At the time of registration student validation will take place if the student gets validate they are registered successfully. After registration student can login in to their respective accounts. After login they will be able to fill details, view profile, edit details. As faculty will login they will be able to perform functions like fill marks of the students, search student and view details of details of student. As admin will login, he/she will be able to enable/disable user, search student or faculty and view student details.

4. TECHNOLOGY USED

HTML: HTML is a hypertext markup language which is in reality a backbone of any website. Every website can't be structured without the knowledge of html. If we make our web page only with the help of html, than we can't add many of the effective features in a web page, for making a web page more effective we use various platforms such as CSS.

CSS: CSS Stands for "Cascading Style Sheet." Cascading style sheets are used to format the layout 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 purpose of CSS is to separate the content of a web document (written in any markup language) from its presentation (that is written using Cascading Style Sheets).

JAVASCRIPT: JavaScript is considered to be one of the most famous scripting languages of all time. The main usage of JavaScript is to add various Web functionalities,

Web form validations, browser detections, creation of cookies and so on. JavaScript is considered to be one of the most powerful scripting languages in use today.

PHP: PHP is a general purpose scripting language that is especially suited to server-side web development where PHP generally runs on a web server. PHP code is embedded into the HTML source document. It is available free of charge, and the PHP group provides the complete source code for users to build, customize and extend for their own use.

MySQL: MySQL is a relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases. MySQL is a popular choice of database for use in web applications and is an open source product.

5. CONCLUSION

The concentration is mainly towards reducing the manual work. It can be used by educational institutes or colleges to maintain the records of students easily. The data which is stored in the repository helps in taking intelligent decisions by the management. All the faculty and management can get the required information without delay. All years together gathered information can be saved and can be accessed at any time. On one click, faculty can get full information of student regarding academics, exam, interests, projects, internship, backlog history, etc which in turn reduces a lot of time. So it is good to have an online student information system which will help in automating the existing manual system.

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