

College Information Management System

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Abstract - College Information Management System (CIMS) mainly focuses on a simple interface for storing and Analyzing information of Students considering various aspects including Academic, Achievements, Sincerity and other parameters. The Data can be retrieved in Statistical form which aids in Performance and Progress of the Department in the Institution. It can be used by educational institutions to manage the records easily. The management of accurate and up-to-date information regarding a students academic career is critically important in the colleges. College Information Management system deals with all kinds of student and staff details, academic related reports, college information, placement details and other resource related details too. Departmental information Management system have capabilities for registering students in courses, results of student tests and other assessment scores, building student Resume, Statistical analysis of marks obtained by students and managing many other student-related data needs in an Institution. It will have information about faculty, batch execution details, various academic notifications by the administrator. By searching student information, proctor can view the profile of any student. Weekly updation of project reports will include project status of candidate.

Keywords: Project progress Report, Performance analysis, Document Updation, Statistical analysis, Notices Updation.

I. Introduction

In the earlier days when the university was founded, management departments and courses were established. The issues projected are that pupils particulars are reported manually in distinct records, which requires multiple resources and manpower to accomplish the task. Managing and updating these records manually increase the probability of Errors. In order to solve these problems, a new system has been created, that attempts to operate the whole process considering the database integration approach.

All Management departments provide various records regarding students in aspects of Attendance, Progress, Interests, Achievements and many more. It becomes easier for Faculty and other Staff to keep the Department Records related to all the candidates and Alumni Entities without manual paperwork. Retrieval of Information with respect to any single or multiple Record name of the Student or particular Class helps in aiding the Management. Report Generations and Statistical Analysis of the Results of particular student, class helps in drawing easier conclusions over the status or progress of the candidate.

It is a System that allows users to approach the entire Information regarding the college, students, faculties here we would gain the recent knowledge regarding the students and Staff. It is a general application planned for aiding the students and Staff of an organization regarding access of the various details of Students. It also allows the faculty to know any Detail about Particular Student. The Details can be Personal, Academic, attendance Records. The administrator would maintain the accounts of the pupil and staff. The System also provides a new Functionality of Resume Generation at the end of Course Duration of the Pupil. The Resume Generation will be done on the Basis of the Students Details in the Management System. The System will also provide Enhanced Services of an Automated SMS to the Students Regarding Attendance Criteria at the End of every month which will help the Student to keep Track of his Attendance. The Systems Database Access Privileges will be Dependent on the Type of user (Administrator/Faculty/Student). Students can Access all their details and can also download the Copies of their Original Documents Submitted during Admission Process.

Proposed System aids in many Aspects for the Benefit of the Institution.

II. System Architecture of Proposed System

The key Purpose of our system is management of particular Department in an Educational Institution by Integrating distinct aspects like Performance Analysis, Attendance Management and other Administrative work including Reporting Services(Automated SMS and E-mails),Security for Personal Documents Storage. The System has three distinct authentication for the different levels of users which are:

1. Administrator

The Administrator is Responsible for the overall Handling of Functions in the System. The Administrator has all the Data Access privileges that is Personal, Academic, other data of the Student. The Reporting Services for Attendance or any other Activity of a Student are fulfilled by the Administrator.

2. Data Feeder

Data Feeder is only Responsible for Entering of Information that requires daily updation. Data Feeder has Access to only limited information inorder to avoid any security flaws in the System. The data is to be entered under the inspection of the Administrator.

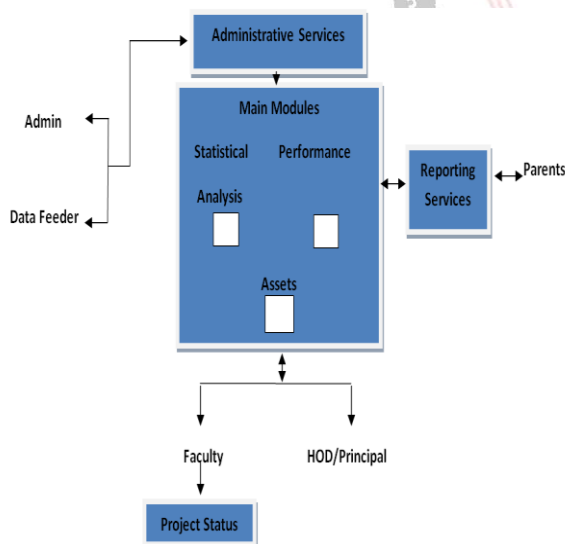


Fig (a): System Architecture

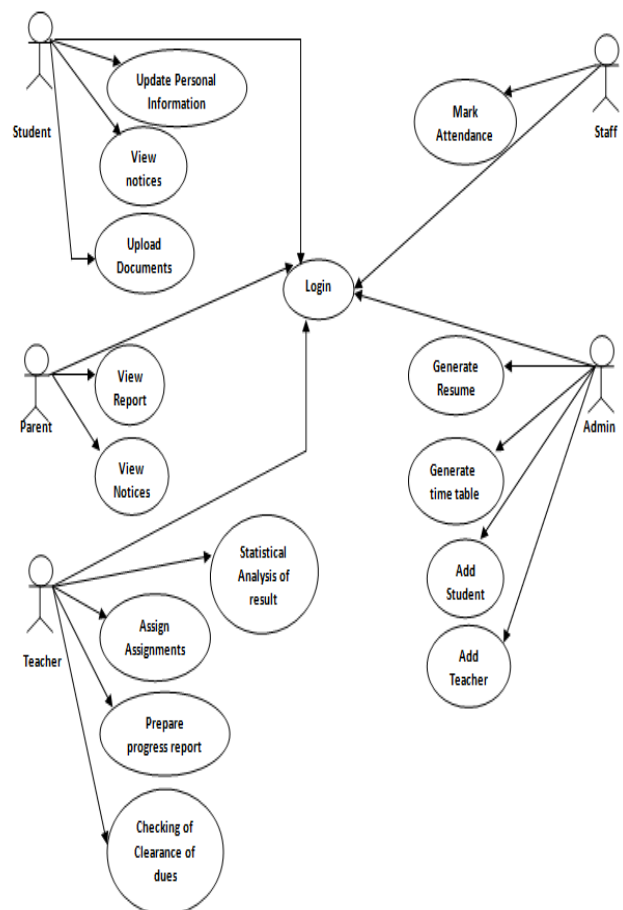


Fig 1.2: Proposed System Work-flow

3. Faculty

Faculty has Access to view every students, class Information which may include the Performance In Statistical form or the Attendance. Faculty can also Retrieve Data of the Students from a particular class on providing certain parameters for Placement Management. Faculty can view the Eligibility of a particular Student for Examination based on Clearance of Dues. The due may include Tuition Fees, Penalty Fees for any other Activity.

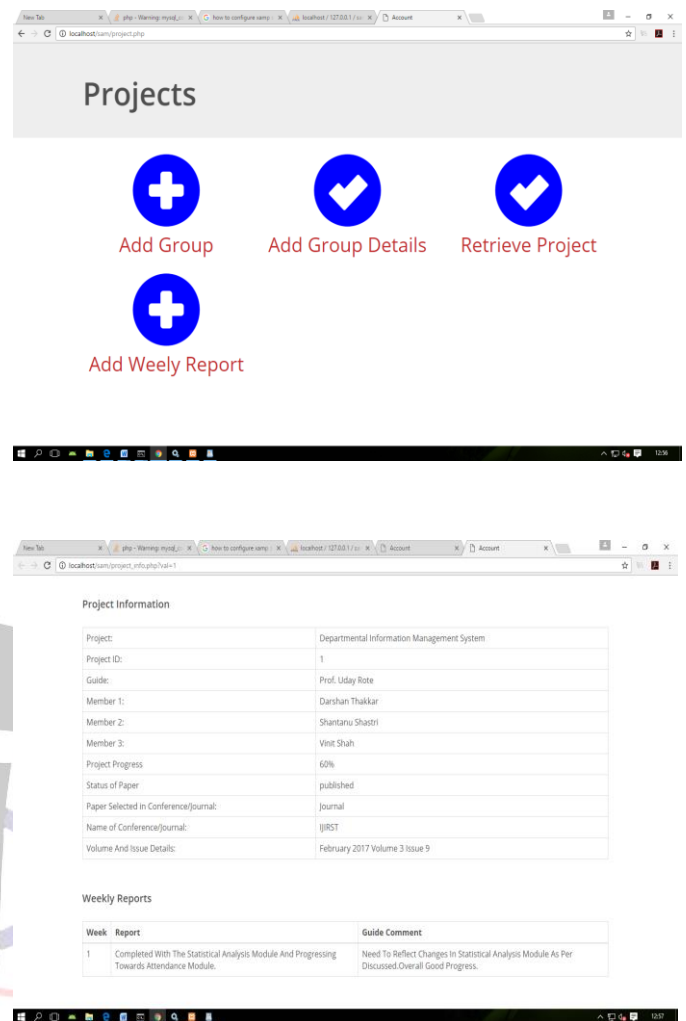
4. Student

Student is the principal entity of the system which is mainly focussed on the Performance Improvement by Analysing Information of Students. Student has Access to edit only its own Profile Information. Students are provided with an Automated Resume at the end of the Course based on the Academic, Personal and other Information provided to the System. Also, Performance Analysis of any student at the end of the Course can be aiding in providing any reference letters to other Institution.

III. Comparison Between Existing System and Proposed System

Existing System	Proposed System
1 All the information is maintained manually which is a tedious job.	1 It will reduce the job of maintaining records manually by keeping it in a large database.
2 It will require more time to retrieve the information. For example, if staff wants to find the record of passed out student, then faculty have to search through all the files which requires more time for the process.	2 It will require less time to retrieve the information. For example, staff can easily retrieve records of any students from database and it will require very less time.
3 Existing system which is in used will require more manpower to complete the process.	3 It will require less manpower as all the information is available on the database and these can be retrieved in any format.
4 Existing systems will have non-centralised data.	4 The information can be easily available and retrieved in any format based on parameters.
5 Existing systems will only have records which can be retrieved when it is required.	5 On the basis of analysis of records of student, performance analysis can be done.

week-wise report of project group which will show project status for every project.

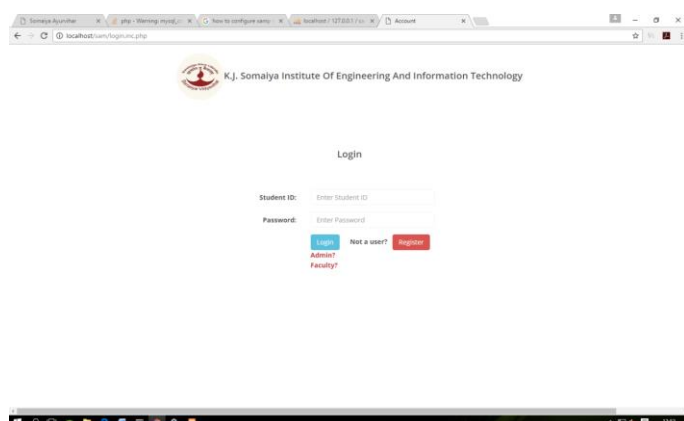


The screenshot displays the 'Projects' management interface. It includes buttons for 'Add Group', 'Add Group Details', 'Retrieve Project', and 'Add Weekly Report'. Below this, the 'Project Information' section shows details for a project titled 'Departmental Information Management System', including project ID, guide, members, progress, and publication status. The 'Weekly Reports' section shows a table with columns for Week, Report, and Guide Comment.

IV. Implementation

1 Login form:

Login form will have login for student, admin and faculty to access it. If student will not have login credentials then student can register to get it.



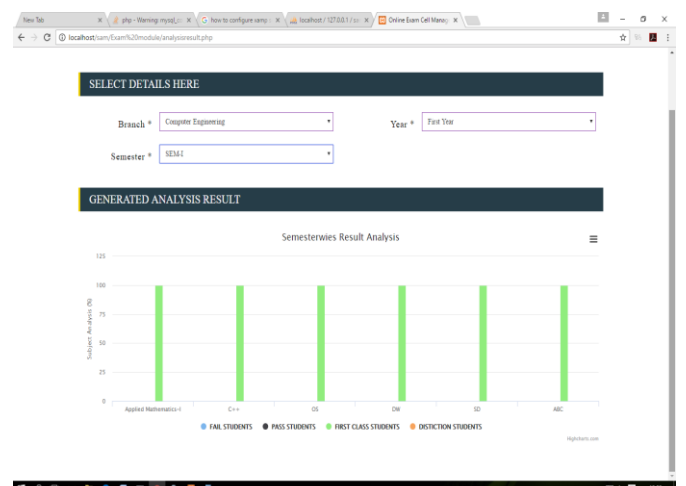
The screenshot shows the login form with fields for 'Student ID' and 'Password'. There are buttons for 'Login', 'Not a user? Register', and 'Admin? Faculty?'. The form is part of the K.J. Somaiya Institute Of Engineering And Information Technology system.

2 Project module:

Project module is used to add project details of project group members and retrieve all the project information. It also add

3 Statistical Analysis:

Statistical analysis module will generate report on the basis of candidates mark. On the basis of different parameters semester-wise, student-wise and class-wise reports can be generated.



V. CONCLUSION

The web application reduces the tedious manual work of maintaining records of Students and Staff by computerized Automation Management System. This gathered information can be maintained and accessed by any point of time. Student wise, Class wise and Department wise analysis is done to test the performance. Notices are reflected on student's page to view the updated notices by the staff. It is an integrated system which focuses on statistical analysis, Report Generations for the management of Department.

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