College Activity Management System

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Abstract — *College Activity management system project is developed and implemented in cross-platform. The main objective of this system is to design or develop a software portal for schools or colleges for maintaining lectures details, student's attendance information, and student's internal and external marks managing system. Students will use this system from anywhere to know about details on attendance and marks and communicate with respectable members for doubts. Latest data on marks and school or college data are modified or updated by the administrator which is available for lecturers and students*

Presently to maintain data about different aspects, the school or college is using manual process i.e., using huge registers and books. Now the school or the college needs a computerized and advanced environment where it is simple for storing data regarding student information, their attendance, faculty details, course details, marks reports, and schedule. Current manual flow it is a difficult job in maintaining. Using data and more time is taken or consuming. There is a total wastage of stationery products and more human resources and manpower effort is required. We have now developed a computerized and automatic environment which replaces all these issues.

Key Words: **Mobile-friendly, Usability, E-Library, User-friendliness, System Validation, User Authentication.**

1. INTRODUCTION

College Activity Management System Project will work on college area network. Under this College Activity Management System Project, it will include all the departments which come to a particular college. It will have billing system for the finance department, library system for carrying out the task of library department, class attendance, online notes and notice board so that their students can get all the information by using their valid registration ID and password. If any student has not able to submit their library book on time, then he/she will find a charge for the requested amount.

The system utilizes user authentication, displaying only information necessary for an individual's duties. Additionally, each sub-system has authentication allowing authorized users to create or update information in that subsystem. 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 student user interface, allowing users to access information and submit requests online thus reducing processing time. All data is stored securely on SQL servers managed by the college administrator and ensures a highest possible level of security. The system features a complex 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.

2. RELATED WORKS

Author 'Srikant Patnaik' from International Research Journal of Engineering and Technology concluded that a graduated approach to result monitoring is the most effective in which sanction have a place, although only as a last resort. The existing system is not user-friendly because the retrieval of data is very slow and data is not maintained efficiently. The use of the same technology can be complicated and time-consuming. These systems need to handle by a specialist for maintaining and update the system which can again be very costly.

Author Kartiki Datakar, from International Journal of Computer Science and Mobile Computing, quoted that Online Attendance and Feedback System is software developed for daily student attendance in schools, colleges, and institutes. It facilitates to access the information of a particular student in a particular class. It is concluded that a graduated approach to result monitoring is the most effective response, in which sanctions have a place, although only as a last resort. Online Attendance and Feedback System are software developed for daily student attendance in schools, colleges, and institutes.

Author 'Lalit Joshi', "A Research Paper on College Management System", International Journal of Computer Applications, referred that the system utilizes user authentication, displaying only information necessary for an individual's duties. Additionally, each sub-system has authentication allowing authorized users to create or update information in that subsystem. 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 student user interface, allowing users to access Information and submit requests online thus reducing processing time.

Prof. 'S. R. Bharamagoudar', Basaveshwar Engg. College, Karnataka worked on "Web-Based Student Information

Management System", from International Journal of Advanced Research in Computer and Communication Engineering referenced that the design and implementation of a comprehensive College Activity Management System and the user interface is to replace the current paper records. College Staff is able to directly access all aspects of a student's academic progress through a secure, online interface embedded in the college's website. The objective of this study is to design and develop a customizable college management information system that provides detailed and summarized information on colleges critical areas being evaluated for funding and accreditations, that is accessible anywhere anytime as data is stored remotely and made available to users over the internet. This will help college administrators in making informed and timely decisions.

3. PROBLEM DEFINITION

Our College Activity Management System Project will help the college administrator. The administrator will able to get all the information regarding any faculty members on particular day and time. Admin panel will also able to edit the login display panel of teachers, staff members, students etc. Admin can add a person, delete the person, can give special permission. Admin can schedule classes, their lectures time. Teachers can get information of any students under their particular class. Teachers can also make a query by using grade, the percentage can see a list of students who come under the category of attendance shortage and much more under this one roof.

For student section, they can get any particular teacher's notes of a particular day and other information regarding their campus, such as placement session details, upcoming companies in particular month, their criteria, their venue details and many more. The student section will also include learning section so that students can prepare for their exams.

4. IMPLEMENTATION

The basic requirements for the design of the College Activity Management System are: Every user should have their own identity Login facility. The user can update his/her personal information and can view the notice, results, placement and exam section updates etc.   The user can access the information and avail services as per his/her need.

1) STUDENT MODULE:– This module used to store student records. It contains the following information i.e. Students Profile details, Contact information, Educational details, etc. The Users can search the students from the database according to different criteria such as name, Course, Room number, etc.

2) FACULTY MODULE:- The staff can update the information regarding the student's attendance, internal marks of the students and any information regarding the subjects they handle. They can also view the student details for better understanding the student performance and improve the efficiency of the student. The staff also gets the updates from the college regarding any events occurring in the college.

3) NOTICE SECTION:- It includes information about various events which is currently going on and which will occur in the near course of time. Notices help in quick capturing of any occurring event.
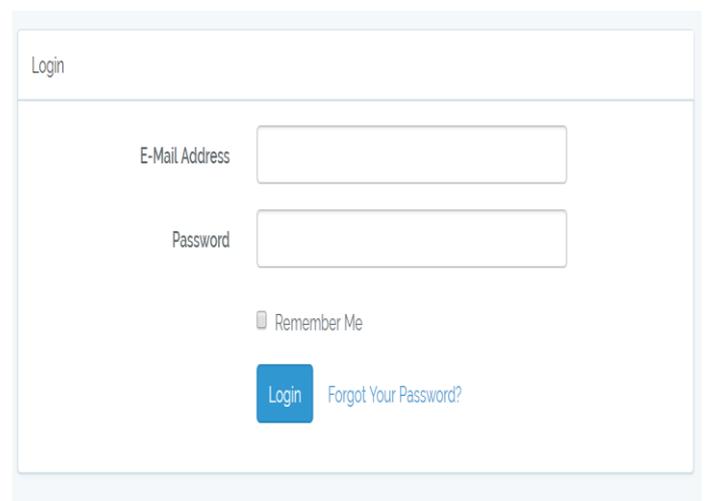
4) EXAM SECTION:- The examination section is responsible for updating internal and external examination timetable. And they are responsible for the checking and approving the internal marks details updated by the staff.

5) PLACEMENT SECTION:- The placement officer is responsible for updating the placement related information like the list of student who got placed in a company and the placement officer can access the student information from the student database

6) E-LIBRARY:- E-Library (also referred to as digital library) is a special library with a focused collection of digital objects that can include text, visual material, audio material, video material stored as electronic media formats(as opposed to print, microform, or other media),along with means for organizing, storing and retrieving the files and media contained in the library collection.
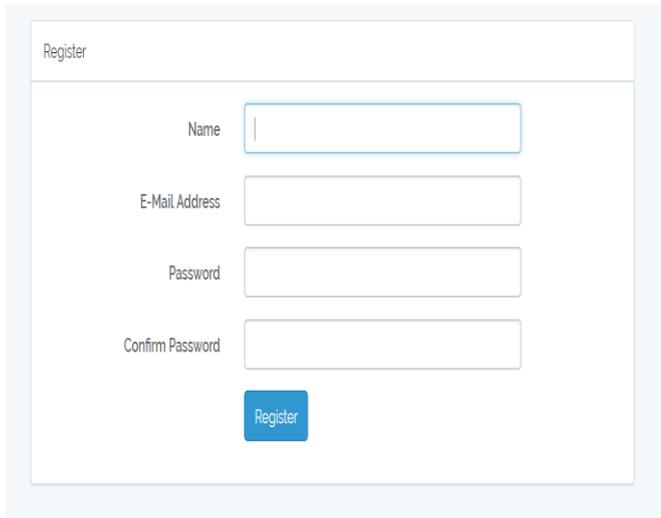
5. RESULTS

1) Login Form: The system starts with a login page where the registered user can enter username and password to be able to access.
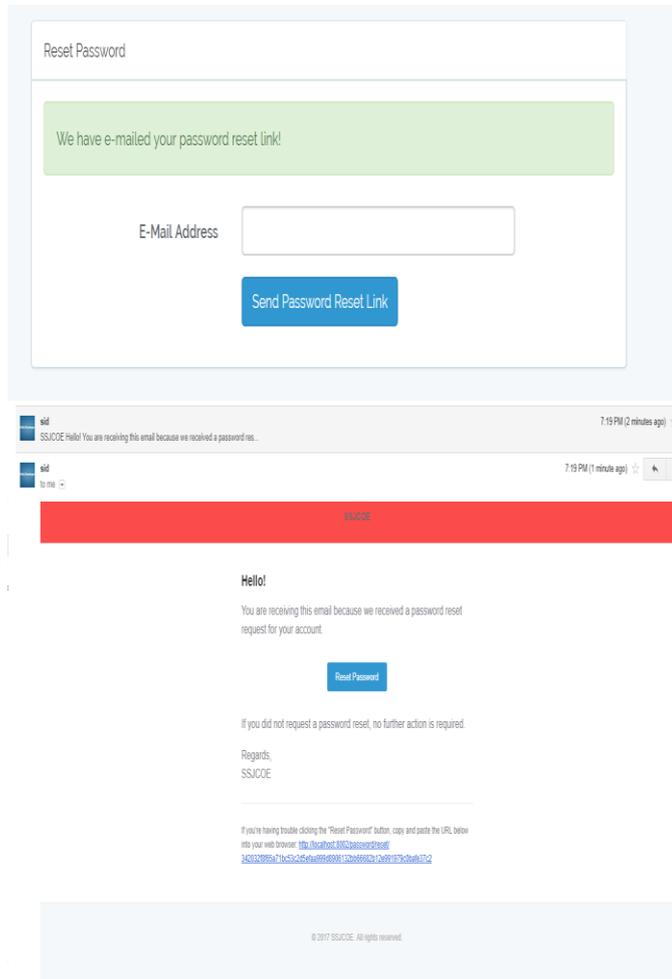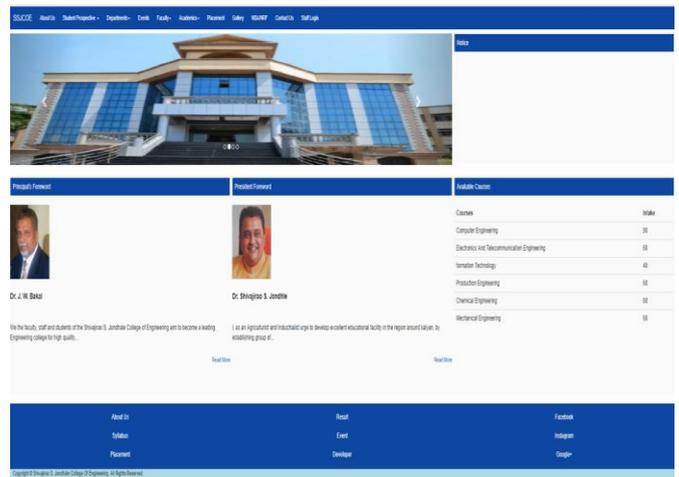
2) Registration form: The user has to go to the registration form for doing registration.
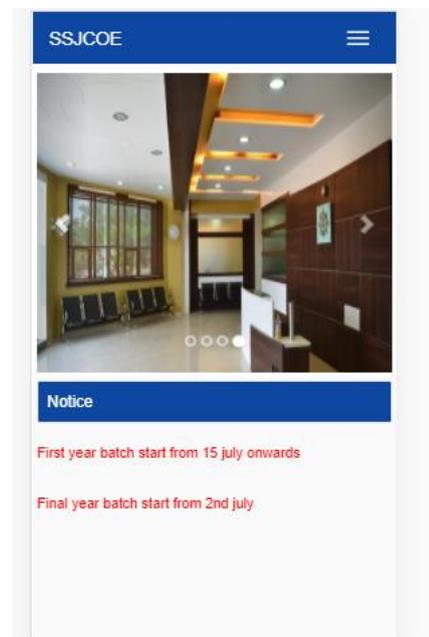

3) Security: Fig. shows that an unauthorized use is denied an access to the system. In case of loss of password, the user can avail an option of resetting his password. This ensures that only authorized users are allowed to access the system.

4) Homepage: Homepage gives a complete overview of the College Activity Management System.

5) Notice Section: Notice section will enable the visitor to get the latest updates of the college activity. It can be updated by the faculty member of the college as per their requirements.

6. CONCLUSION

It provides high security and a system that reduces the work and resources required in the traditional process. The proposed bootstrap system provides the new way of computing and displaying operations with responsive and attractive user-interface. College Activity Management System is customizable and is rated very satisfactory in terms of functionality, user-friendliness, usability, mobile-friendly and performance, it is implied that other colleges may adopt this system for more efficient information management and more effective management decisions.

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