CENTRALISED ACCESS SYSTEM FOR COLLEGE EDUCATOR USING SECURE TECHNIQUE

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Abstract- Web application is one of the application spreaders between people. Technology has introduced new Environment among students, teachers, HOD that can be used to improve today’s management system. The proposed system will introduce and improve interactivity, accessibility, and convenience in the management process. The main objective of this work is to develop an application for educational institutes. The app will be foremost required by any students and professors to ease the examination process and experience. The system consists of client software which is presented to the test-taker. On the other end, the faculties will also have a portal to submit their questions. System will also allow users like HOD Teachers to track the progress of students. System will be allocated the resource based on the test taker’s answers So that they can improve their progress.

Key Words: Communicate, Teacher, Centralized, Faculty, Secure Technique, authentication, progress bar, report, mock test, placement activity.

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INTRODUCTION
Web application is one of the huge advances spreader between individuals. Innovation has presented new Climate among understudy, instructor and HOD that can be utilized to further develop the present administration framework. The proposed framework will present what’s more, further develop intelligence, openness, and comfort in the administration cycle, Will have a highlight where staff will refresh the time address subtleties, area, subject, any movement, and so on. Exams are an important part of students. Module Students can take exams. Students can apply for Internship and Certificate. View reports. Ability to view their own progress reports over time. A guide has been designed for students. Computerized and online systems have been increasing in every aspect of education. Information Technology plays a very important role in nowadays education. Computers and internet have made dramatic changes in the education system. Information technology enables institution of high learning to save time and money, and allow the delivery of education with easiness, anywhere, and anytime. Paper based books are replaced by online and off-line applications. With computer software, we can be able to have access to huge databases of information. This gives fundamental change to the education. Information technology makes the exchanges of information fast and easily. In the modern era, technological progress has minimized the information in the world. Advancement of technology has many advantages in education and all business industries that use it. With the use of the technology advances, the transaction became more rapid, accurate and efficient. As time goes by computers have become more useful for every transaction. Web applications have many different uses, and with those uses, comes many potential benefits. Some common benefits of Web apps include:
• Allowing multiple users access to the same version of an application.
• Web apps don’t need to be installed.
Web apps can be accessed through various platforms such as a desktop, laptop, or mobile.
Can be accessed through multiple browsers.

PROBLEM STATEMENT
The ERP system handles all the things of organizations like exam generation, downloading receipts, and the Authentication process of users. But as a student, the user can’t view their own progress report and result. Hence we proposed a system that helps students to improve their skills by giving mock exams in our system. And the system can predict all weak section results of students and provide suggested links using Machine Learning. Apart from that our system provides all placement activity.

OBJECTIVE OF SYSTEM
• To develop a system more secure than existing system.
• System which required less time.
• System provide security to user data in database.

LITERATURE SURVEY
College management system is an integrated web application that handles various academic and nonacademic activities of a College/Academic Institute. The system can access by every students/faculties/employees of the institution through internet connected computers or internet enabled mobile devices with the aid of his user name and password. Every user will have customized home page with his/her profile management facilities. Through links that displays in the home page the user can access different options of the website assigned. Though the system allows access to every one there is a significant security risk involved in this project, which will be discussed later.

[1] “Trial of collage method to evaluate learning environments including CSCL”, S. Ozawa; O. In oshita etal., In this paper, the authors reveal how learners evaluate different learning environments including CSCL and classroom, and how learners describe relationship between different groups in some learning environments. In order to demonstrate these relationships, they try to use combinations of qualitative semi-structured interviews and a collage method, which facilitate learners’ externalization of relation among learning environments and groups. They especially focused how learners describe CSCL on collages. As a result, three types of collages were found showing different relations. It is suggested that a collage method is useful for learners to transform internal thought into outer representations. Hi addition to these effects, this method has possibilities to reconstruct their thinking more clearly. As a whole, it is suggested relations making like collages is important for learners to reflect about learning environments.

[2] “Basic Project Management Documentation Based on the Example of the Student Project AGH Lean Line”, Katarzyna Styk etal., This paper presents, The aim of this work is to trace and present basic project documents and to present simplified project management on the example of a student project. The paper contains a short definition of the project and the growing popularity of project management. Then, a student project of AGH Lean Line, consisting in the construction of a construction project in the field of management and production engineering and promotional activities through conference trips, was presented. Project management is based on basic project documents, which were collected and briefly characterized according to the methodology developed in the scientific community. At the end, individual documents created for the AGH University of Science and Technology (AGH) project were presented.

[3] “The Application of Management Experiment on Humanization Management in Real Experience Practice and Field Work of Students”, Xueqiang Luo etal., this paper studied that, Real experience practice, field work and humanization management have great significance to the development of the university and students. With the introduction of the management experiment and analysis of management psychology factors, this paper uses the humanization management manner to analyze the management problem of the students in real experience practice and field work. The design, implementation, analysis and evaluation of the humanization management experiment is put forward. The humanization management experiment can help to improve the effectiveness of the management. It is contributed to meeting the internal need of students for comprehensive development, building a harmonious campus, adapting the trends of scientific development and moral education development.
[4] “Research on the Application of Computer Internet Technology in the Management System of Student Borrowing and Reading in University Library”, Jiapeng Li, et al., The main direction of this paper is to carry out the education management of college students. Through the application of fingerprint recognition technology in the library student reader management system, the working principle and composition of the existing library student education management system are studied, and the proposed a more advanced student work management program. This paper designs a general interface between the fingerprint collection system and the existing library reader management system, so as to realize the seamless integration between the college students' loan management system. Experiments show that the management system realizes the library’s identity authentication function for college students' readers and the realization of the corresponding management work through the identification of readers' fingerprints.

[5] “Analysis and Design of College Student Award Management System”, WuNan Ding, et al., In this paper, University award management plays an important role in cultivating students' good quality. However, at the present stage, most colleges and universities have scattered award management structures and generally use traditional manual means of information office. The shortcomings of low system efficiency, high error rate and complex repetition have made students and faculty complain. In this paper, the current situation of award management system for college students is studied. According to the phenomenon, the causes of the problems are analyzed in depth. Combined with the practical experience of the management of colleges and universities, the significance of the construction of the system is analyzed, and the multi-parameter award management system is constructed, which is realized by using the management information system.

[6] “ERP for College Management System”, Sudarshan Kumar, et al., In this paper our main motto is to create the students ERP (Enterprise resource planning) system. Now a days it’s very difficult to manage all the record and also difficult to analyses all the record in any department. A manual work is very lengthy and time consuming for entire departments. So for that needs of central system is arising which gives the effective and efficient result within a few time. All departments can access the data with the system and also they can perform a desire task. With that all the data can easily manipulate and get easily whenever anybody wants. The objective of this paper was to propose a design of ERP for college management system which provides a simple interface for maintenance of different student, department, faculties, library and other information. It can manage daily activities of college which include the management of Employees, Students, Books and Library Records, Parents details, Assignments, Admission Process, Results and Reports, Exams, Events, Attendance, Timetable, Fees and Other Report. It uses C4.5 algorithm to analyse student based on their performance and placement prediction of student.

PROPOSED SYSTEM
In figure 1, System Architecture Diagram shows we proposed a system that helps students to improve their skills by giving mock exams in our system. And the system can predict all weak section results of students and provide suggested links using Machine Learning. Apart from that our system provides all placement activity.

1. **Authentication Module**
   - Here the system will authenticate the user id and password for authentication.
   - System will avoid unauthorized access.

2. **HOD Module**
   - Here we have a separate Dashboard for HOD where he will monitor the other user of our system.
   - HOD will be able to send user events updates and important notices.
   - HOD acts as a super admin who approves users like teachers and students who newly registered
   - HOD will be able to see placed students list also campus details, and internships arranged by training and placement.

3. **Teacher Module**
   - Teacher able to send the notifications.
   - Teacher is able to upload the timetable for students.
   - Also able to see the student’s data like placed students list.
• They have the authority to create internships, placement, and mock tests.
• Able to view progress reports in results as per the time of each student in their class.

4. **Exam Creation Module**
• This module will be managed by the teacher who can create an exam for students.
• They can set a time limit for the mock test.
• Create a mock test in .CSV file format.

5. **Student Module**
• Here the student will log in to the system
• Mock test is the main part of the student module
• Students able to give exams
• Students can apply for the internship and placements detail.
• Able to view notifications
• Able to view their own progress reports as a result of time

6. **Test Taker Module**
• Here we have a separate Dashboard for Test takers.
• He will select the exam that he wants to take.
• Exams will be in MCQ format as per sections like logical, verbal, coding, and numerical.

7. **Test Taker Analysis Module**
• Here System will analyze the test taker’s Questions and correct answers from the SVM algorithm using machine learning.
• Then the system will give suggested resources as per weak section of students to improve their skills.

8. **Notification Module**
• Here our system will be responsible for sending the notification during authentication to our users.
• Notifications like :
  Login Successful
  Login errors

**SYSTEM ARCHITECTURE**

![System Architecture Diagram](image)

**APPLICATION**
• Organizations like school and college.
• Research Institute.
RESULT

Figure -2: Login page

Figure -3: HOD Dashboard

Figure-4: Student Result of mock test

Figure-5: Progress bar of Student and Suggestions

Figure -6: Internship List
CONCLUSION
The proposed system aims to overcome the challenges of an existing system for evaluating descriptive answers. Hence, we are resolving issues with the old system so students can build their knowledge as per their weak subject and improve topics to prepare for placements easily and Teachers can also provide important or recent knowledge material easily, we offered a more effective solution in cost effective, and provide authentication security to data user in database with encryption. The system's advantages include time saving for teachers, enhance consistency in grading and fair evaluation for student. With the ability to track performance record and provide valuable insights, the system empowers both teachers and students in their educational journey. Our system has a great interface that allows HOD, teachers, and students to access information fast and offers data prediction of students’ analysis with Machine Learning Algorithms.

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