Survey Paper Of Secure Online Examination System

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Abstract

With the expansion of Internet and technology over the past decade, E-learning has grown exponentially day by day. Cheating in exams has been a widespread phenomenon all over the world regardless of the levels of development. Therefore, detection of traditional cheating methods may no longer be wholly successful to fully prevent cheating during examinations. Online examination is an integral and vital component of E-learning. Student's exams in E-learning are remotely submitted without any monitoring from physical proctors. As a result of being able to easily cheat during e-exams, E-learning universities depend on an examination process in which students take a face-to-face examination in a physical place allocated at the institution premises under supervised conditions, however this conflicts with the concept of distant E-learning environment. This paper will investigate the methods used by student for cheating detection in online exams, through continuous authentication and online proctors. In addition, we have implemented an E-exam management system, which is used to detect and prevent the cheating in online exams.

Introduction

Online Examination System forms the lifeline of the Educational Institutes to the functioning of the Examination. It is very essential for an Institute to handle the Examinations and their results. It is very useful for an Institute to test its students continuously for their mutual development. This system is helpful for conducting(M.C) Multiple Choice Examinations which can be conducted regularly as well as for surprise tests and provides immediate results saving the precious time of faculties to check the papers and prepare mark sheets. The IT initiatives have encouraged various Organizations to develop systems to facilitate their day to day operations. The Online Examination System will include various Courses and subjects for conducting examinations. This system helps in conducting examinations quickly and can thus help in saving time and the operations will be carried out efficiently. With the effective use, any Institute can apply the Online Examination System for conducting quick examinations and getting better results in less time.

Literature References

[1]International Journal of Emerging Technology and Advanced Engineering, "Website: Online Descriptive Examination and Assessment System" BhagyashriKaiche 1, SamikshaKalan 2, Sneha More 3 , LekhaShelukar,2014.
The descriptive exam system consists of checking of answer sheets and attending theory exam online. The system consists of candidate login and admin login. The whole system will be controlled by the admin. After registration candidate gets exam information related to his interest. In this system, the candidate can apply for the exam, he receives his exam card through E-mail and he attends the exam and when the result should have to be declared, this decides by the administrator. The administrator arranges the exam schedule and result declaration. He also arranges the exam question papers and answer papers. The system checks paper manually also, if the exam paper checker gives wrong marks to candidate the system gives alert to him. The demo exam is also provided; the sample question

and answers are also provided for the help of the candidate.

[2] Z. M. Yuan, L. Zhang, G. H. Zhan, A novel web-based online examination system for computer science education, In proceeding of the 33rd Annual Frontiers in Education, 2013.
Web-based Examination System is an effective solution for mass education evaluation. We have developed a novel online examination system based on a Browsed Server framework which carries out the examination and auto grading for objective questions and operating questions, such as programming, operating Microsoft Windows, editing Microsoft Word , Excel and Power-Point, etc. It has been successfully applied the distance evaluation of basic operating skills of computer science. Such as the course of computer skills in Universities and the nationwide examination for the high school graduates in
Zhejiang Province, China.

[3] WebBased online Secured Exam; B. Persis Urbana Ivy, A. shalini, A.Yamuna International Journal of Engineering Research and Applications (IJERA).
Online exam is field that is very popular and made many security assurances. Then also it fails to control cheating. Online exams have not been widely adopted well, but online education is adopted and using all over the world without any security issues. An online exam is defined in this project as one that takes place over the insecure Internet, and where no proctor is in the same
location as the examinees. This project proposes an enhanced secure filled online exam management environment mediated by using remote monitoring and control of ports and input. The target domain of this project is that of online exams for any subjects contests in any level of study, as well as exams in online university courses with students in various remote locations. This
project proposes easy solution to the issue of security and cheating for online exams. This solution uses an enhanced Security Control system in the Online Exam (SeCOnE) which is based on group cryptography with an e-monitoring scheme.

[4] Qi Fan, Chang-jie Zhu, Liu Yin, Peter Honeyman, "Predicting Breast Cancer Recurrence Using Data Mining Techniques."
The attributes related with adopted therapy as the input attributes. We could take into account them as the target, and predict the best therapy rules in Not Recurrence data set. Besides, we could also try recurrence prediction of other certain cancer data where the recurrence is seriously high.

[5]G. Tamilmani, S. Sivakumari,"A Survey on Various Data Mining Methods for Detecting Cancer Cells."
It is a combination of gene based algorithm and biological marking. The work can also be further extended in the areas like reducing time consumption and cost consumption. There are several ideas has been proposed and might have implemented now or in near future. But the thing must have kept in mind is, Empathy. It is a very sensitive issue which requires complete dedication and accuracy to the most.
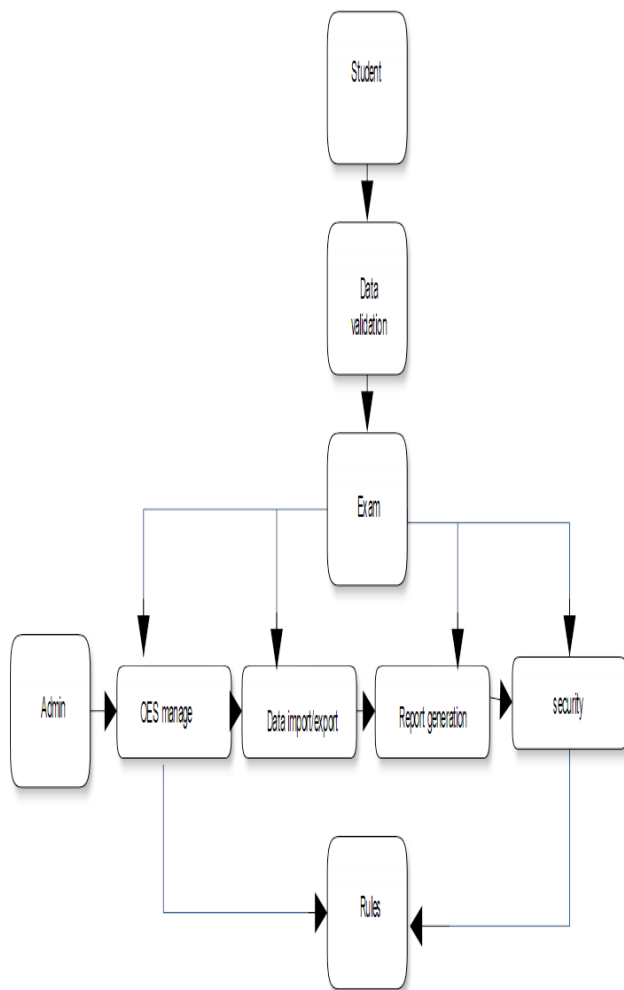
Proposed System:

Explanation:

In proposed system different kind of functionality is provide means user can not close the window while attending the exam as well cannot open other tabs. Examinee cannot copy, paste the data. These feature provided because of difficulty of analyzing the test manually, More observers are required to take exam of many students, Results are not accurate since calculations is done manually, The chance of losing exam's result is higher in current systems, Checking of result is time consuming since it done manually, Limitation of no of student can give examination at a time. With the development of information technology and use it in an orderly and properly helps to overcome the existing error in the manual system. Online examination system saves the exams information in a database, and this make it an easier way to give exam teachers can add theirs exams rules, and student can give exam in a totally automated system.
Examinee authentication is using real image with database image.

Advantages:
- Not time consuming process.
- Achieve better performance.
- Provide security.
- Make system user friendly.
- Reduce lot of paper work

Architecture Diagram

System Architecture

References

[1] International Journal of Emerging Technology and Advanced Engineering, "Website: Online Descriptive Examination and Assessment System" Bhagyashri Kaiche 1, Samiksha Kalan 2, Sneha More 3 , LekhaShelukar,2014.

[2] Z. M. Yuan, L. Zhang, G. H. Zhan, A novel web-based online examination system for computer science education, In proceeding of the 33rd Annual Frontiers in Education, 2013.

[3] WebBased online Secured Exam; B.Persis Urbana Ivy,A. shalini, A.Yamuna International Journal of Engineering Research and Applications (IJERA).

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[5] G. Tamilmani, S. Sivakumari, "A Survey on Various Data Mining Methods for Detecting Cancer Cells."

Summary

This document is presented to study the data mining application in the healthcare industry to find out a new range of pattern information. There are a number of available mining tools and techniques available for well-defined diagnostic systems. This data mining forecasting system reduces the human effects and cost effectiveness. We have successfully learned the functional schema and system architecture and, depending on this diagram, we are designing a system that will help predict illness by using Android phones. We are developing the user-friendly application, the interface between user Android devices, and we have created an interactive application to monitor the health of users.