



Online Examination System

Mohit Pankaj and Prabhash Kumar

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Prabhash kumar

School of Computer Science

Galgotias University Gr. Noida, India

kumarprabhash1999@gmail.com

Mohit pankaj

School of Computer Science

Galgotias University Gr. Noida, India

mohit.pankaj.mp7@gmail.com

Abstract

Online Examination System is on-line| a web|an internet check machine is to require online examination, check in associate degree economical manner and no stonewalling for manually checking of the check paper. the most objective of this net primarily based on-line examination system is to with efficiency assess the coed completely through a completely machine-controlled system that not solely saves heap of your time however additionally provides quick and correct results. for college students they furnish papers per their convenience from any location by exploitation net and time and there's no want of exploitation further factor like paper, pen etc. Online examination system helps students to supply a fast and simple thanks to seem for the take a look at. It additionally provides the results in real time when the examination with 100 percent accuracy and security. Student will enter to perform examination solely with their valid username and countersign. This examination contains multiple selection queries and applicable range of choices. There are not any limitations on range of choices and it will be irregular therefore same set of question won't seem to any or all student therefore it forestall manipulation. over one possibility will be correct however the user will choose just one possibility. This provides deadline. The user will see their results when finishing the examination. This helps the scholars to put in writing the examination from way distance and which might give security and ease and different helpful options to the user.

Keywords— Front-end: HTML,CSS, JavaScript for UI so that users can interact .

Back-end: Sql, NodeJS for maintaining Database.

Security, Client Server Architecture; Browser Server Architecture Random Number Generator; Randomization.

INTRODUCTION

Purpose:-

The purpose of on-line examination machine is to require on-line exam in Associate in Nursing economical manner and no delay for checking the paper. the most objective of on-line take a look at simulator is to expeditiously appraise the candidate completely through a completely machine-driven system that not solely saves ton of time however conjointly offers quick results. for college students they offer papers according to their convenience and time and there's no would like of victimisation further issue like paper, pen etc.online examination system is to check the topic data of the scholars. Such a system eliminates supplying hassles and downsides within the ancient mode of the pen-and-paper examination. the net examination system adopts a a lot of efficient examination approach by shifting to a virtual platform that solely permits academic establishments to transfer multiple question formats and acquire period of time updates. they will conduct exams anytime, anywhere, whereas conserving the exam's credibleness and integrity.

Scope:-

Scope of this project is incredibly broad in terms of alternative manually taking exams. Technological advancements during this era of digitisation along side being a boon to the planet are advantageous to the tutorial sector too. The introduction of on-line communicating computer code replaced the standard system of assessment. Few of them are:-

- This are often utilized in instructional establishments still as in company world.
- Can be used anyplace any time because it may be a internet based mostly application(user Location doesn't matter).
- No restriction that examiner must be gift once the candidate takes the take a look at.

LITERATURE REVIEW

Hongmei Nie Math, Physics and Information Engineering College Online examination is the crucial parts among online education. It is efficient and fast enough and reduces the large amount of material resources.

Examination system is developed based on web. This paper describes the principle of the designed system, that presents the main functions of the system, analyzes the algorithm of autogenerating test paper, and discusses the security of the system. Nor Shahida bt Mohd Jamail Abu Bakar Md Sultan Faculty of Computer Science and Technology, Selangor, Malaysia Examination process is important activities for institutions to evaluate student's performance. Thus the quality of the exam questions would determine the quality of the students produced by the institutions, also preparing exam questions is challenges, tedious and time consuming for the instructors. Current technologies help instructors to store the questions banks in computer databases. The issue arise is how

the current technologies would also help the instructors to auto generate the different sets of questions from time to time without concern about repetition and duplication from the pass exam while the exam bank growing. This paper describes the use of shuffling algorithm in an Automatic Generator Question paper System (GQS) as a randomization technique for organizing sets of exam paper. The results displays the shuffling algorithm could be used to overcome randomization issue for GQS.

PROBLEM FORMULATION

Online examination can diminish the hurried occupation of evaluating the answers given by the applicants physically. Being a coordinated on-line examination framework it will decrease paper work. To permit programmed reviewing and manual evaluating which can be recorded per take a look at :-

Require Tools :

Visual Studio Code

Feasibility:

The application is feasible regarding technical and economical. During the development of Online Examination System, we have tried to address all these.

Complete Work Plan Layout:

1 week :- Frontend structrue and domain name
2 week :- Hosting plan 3 week :- Website platform ,Website Theme and contents
4 week:- Work on frontend
5 week :- Work on Database
6 week :- Testing and Debugging.

Functional requirements :-

This section provides a purposeful demand that applicable to the On-Line test system:-

There are three sub-modules in this phase.

1. Candidate module.
2. Examiner module.

3. Administrator module

Non-Functional requirements :-

1) Performance Requirements :-

Some Performance needs known is listed below:- The info shall be able to accommodate a minimum of 10,000 records of scholars. The software package shall support use of multiple users at a time. There are not any alternative performance needs that will have an effect on development

2) Safety Requirements :-

The information could get crashed at any sure time thanks to virus or software package failure. Therefore, it's needed to take the information backup.

3) Security Requirements:-

Some of the factors that ar known to safeguard the software from accidental or malicious access, use, modification, destruction, or revealing ar delineate below. Keep specific log or history knowledge sets Assign sure functions to completely different modules limit communications between some areas of the program Check knowledge integrity for vital variables Later version of the package can incorporate encryption techniques within the user/license authentication process. Communication has to be restricted once the application is confirmatory the user or license. (i.e., using https).

System requirements:-

Software Requirements :- Client Side: .HTML, Web Browser, Windows XP/2000/Vista Web Server: .HTML, Windows XP/2000/Vista ii.

Hardware Requirements:-

Server Side: Operating System: Windows 9x/xp ,Windows ME Processor: Pentium 3.0 GHz or higher RAM: 256 Mb or more Hard Drive: 10 GB or more Client side: Operating System: Windows 9x or above, MAC or UNIX.

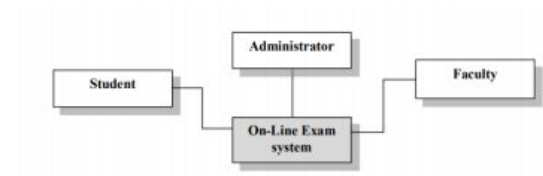
Processor: Pentium III or 2.0 GHz or higher.

RAM: 256 Mb or more

SYSTEM ARCHITECTURE

This diagram represents what square measure the bounders and scope of On-Line examination System project.

It describes the most objective of the system and its entities involved.



Administrator can do the following:

- Create/delete accounts (add a list of faculty names and list of his student)
- Change password for Faculty/Student
- Create/ delete/update courses (subject).

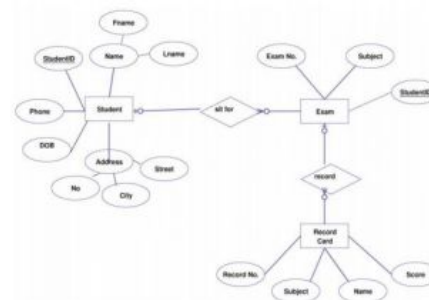
The Faculty can do the following:

- Change password.
- Insert questions.
- Specify the answers.
- Update mark of questions and answers.

The Student can do the following:

- Change password.
- Choose exam.
- Review answers.

Figures:-



Conclusion

Online Examination System (OLES) could be a internet application. The key conception is to attenuate the number of paper and convert all types of documentation to digital kind. It can observe that the data needed is obtained with ease and accuracy within the computerised system. The user with minimum data concerning laptop is ready operate the system simply. The system conjointly produces transient result needed by the management.

References

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