

Smart Online Examination System

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ABSTRACT

Smart Online Examination System is used for conducting online objective test, the test will be customized such that will have automated checking of answers based on the user interaction. This project helps the faculties to create their own test based on the subject. This also helps the instruction to perform online quiz, test paper such that the academic performance of the students can be increased and can take the feedback from both students and parents.

Live-Online Examination System is an online examination program run by qualified live examination online perfect for your children to enhance their education online. Online examination is an easy way to teach kids and to let them have fun while learning. Live-Online Examination System has advanced online examination techniques using and advanced online classroom to examination children online. By using an online examination white board, both kids and examinations can write down their thoughts and communicate effectively over the internet. Your child's most valuable tools is his/her education and online examination is a great tool enhancer. By using Live-Online Examination System's online examination services you can create a fun online examination environment for your child. No more driving to an examination or waiting for your examination to come to you; by using online examination, you simply get online and examinations are waiting and ready to help you. Live-Online Examination System's certified online examinations help kids with their homework, studying, research and other aspects of; learning, schooling and education.

Keyword – Conducting, Customized, and Enhancer, Tool Enhancer etc....

1. TITLE

The purpose of Online Examination System is to take online examination in an efficient and effective way and no time wasting for checking the paper. For students they attempt paper according to their convenient time and there is no need for using extra thing like paper, pen, etc.

The main authority is with the administrator who manages the entire examination system because it is an online system that help the candidate to attempt the papers according to selected subject within the time limit that is already maintained by the server throughout. Online Examination System is a program that automatically generates multiple-choice Computer Architecture test and handles the submission/making of results. Login is required either by a student or a lecturer. Each client has different functions available. Student have ability to login, take a test, submit the test, and view previous test results. Lecturers have the ability to login, generate random test questions, store this in a database, send login passwords to students, and make tests available to student correct tests, and store results.

The project has been planned to be having the view of distributed architecture, with centralized storage of database. The application for storage of the data has been planned. The standards of security and data protective mechanism have been given a big choice for proper usage. The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are

put forwarded by the administrative staff.

The entire project has been developed keeping in view of distributed client server computing technology, in mind. The specification has been normalized up to 3NF to eliminate all the anomalies that may arise due to the database transaction that are executed by the general users and the organizational administration. The user interfaces are browser specific to give distributed accessibility for the overall system. The basic constructs of table spaces, cluster and indexes have been exploited to provide higher consistency and reliability for the data storage. The total front end was dominated using the ASP.Net technologies. At all proper levels high care was taken to check that the system manages the data consistency with proper business rules or validations. The authorization was crosschecked at all the relevant stages. The user level accessibility has been restricted into two zones namely. The Online Examination System project mainly intends to provide insight into the functionality and behavior of the Online Examination System.

This project integrates computer and Internet technologies for the purpose of student assessment. It provides the options of the examinations available on the system according to the user privilege.

2. OBJECTIVE

Artificial Intelligence also known as machine intelligence, is a branch of computer science that focuses on managing and building technology that can learn to instantly make decisions and carry out actions instead of a human being. AI based Online Examination Proctoring uses AI-driven algorithms for user identification and cheating identification. It will create a comprehensive report to help you to confirm if an online exam has been completed with machine-driven invigilation proctoring. AI-powered remote proctoring can ensure the end to end security for Online Exams and prevents the process from malpractices and cheating. Because of the COVID-19 pandemic, the whole world is following a major downfall in terms of economy, day-to-day activities are being restricted due to lockdown! Remote proctoring is the technology that allows us to monitor online exams for candidates scattered over a bunch of locations, anywhere on the back of the earth. There are different factors of remote proctoring such as video proctoring, image proctoring, audio proctoring, monitoring the screen of the user taking the online exam. With the help of all these functionalities, we can securely conduct Online Exam, that too under a secure, monitored, and cheat-free environment. Face recognition is the key component of the verification process for remote users during the online exam process. The system takes pictures of the user taking the exam and it is compared with a photo stored in the system at the start of the online exam. At any point of time during the exam, if there is a mismatch or deviation in the face or more than one face detected in front of the display or no other person's faces detected in front of the camera during the online exam then the system records in the form of an alert. AI-based remote proctoring also prohibits the user from switching the windows while appearing for the scheduled Online Examination System. Using AI has covered with its extra lite proctoring mechanism in the name of Image-based proctoring. The mechanism imposed by the proctored examination process enforces this restriction to keep the Online Exam environment under control. Image Proctoring has made it possible to secure the online exam environments prominently and the demand in the technology is rapidly increasing due to several factors.

2.1 Conclusion

This Web Application provides facility to conduct online examination worldwide. It saves time as it allows number of students to give the exam at a time and displays the results as the test gets over, so no need to wait for the result. It is automatically generated by the server.

Administrator has a privilege to create, modify and delete the test papers and its particular questions. User can register, login and give the test with his specific id, and can see the result as well.

2.2 Advantages

- 1) Improved open access to education, including access to full degree program.
- 2) Better integration for non-full-time students, particularly in continuing their education.
- 3) Improved interactions between students and instructors.
- 4) Provision of tools to enable students to independently solve problem.

- 5) No age-based restrictions on difficulty levels, i.e. students can go at their ownPace.
- 6) No opportunity of cheating.

2.3 Applications

The project is identified the merits of the system offered to the users. The merits of this projects areas follows:

1. It's a web-enabled project.
2. This project offers user to enter the data through simple and interactive forms. This is very helpful for the client to enter the desired information through so much simplicity.
3. The user is mainly more concerned about the validity of the data, whatever he is entering. There are checks on every stages of any new creations, data entry or updating so that user cannot enter the invalid data.
4. Sometimes the user finds in the later stages of using project that he need to update someof the information that he entered earlier. There are options for him by which he can update the records. This keeps the validity of the data to longer extent.
5. From every part of the project the user is provided with the links through framing so thathe can go from one option of the object to other as per the requirement.
6. Data storage and retrieval will become faster and easier to maintain because data isstored in a systematic manner and in a single database.
7. From every part of the project the user is provided with the links through framing so thathe can go from one option of the object to other as per the requirement.
8. Data storage and retrieval will become faster and easier to maintain because data isstored in a systematic manner and in a single database.

2.4 Future Scope

This system being web-based and an undertaking of Cyber Security Division, needs to be thoroughly tested to be find out any security gaps.

A console for the data center may be made available to allow the personnel to monitor onthe sites which were cleared for hosting during a particular period.

Moreover, it is just a beginning; further the system may be utilized in various other type of auditing operation viz. Network auditing or similar process/workflow based application

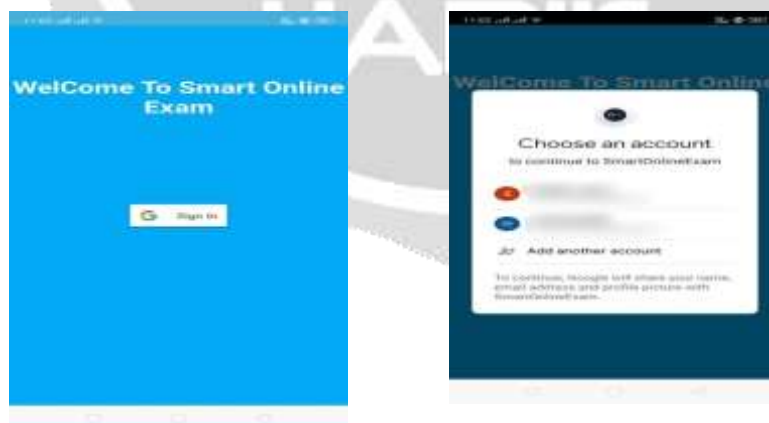


Chart 1 & 2 Student side login page



Chart 3 student side Graphical User Interface for selecting required E-mail address for beginning Interface after logging in into the exam portal

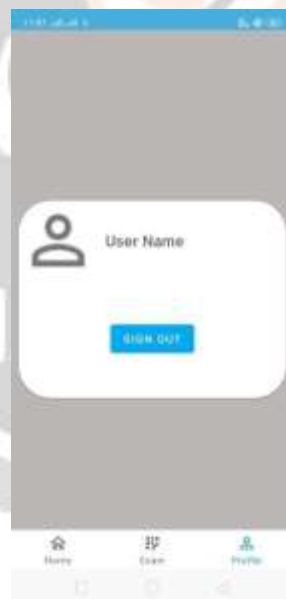


Chart 4 Student side requirement after completion of exam (logging out of the exam portal)

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