

SHORT SUMMARY OF THE WORK DONE ON THE UGC MINOR RESEARCH PROJECT

Title of the Research Project	:	Design and Development of a Robust, Secure & an Adaptive Online Examination System
Name and Address of Principal Investigator	:	Prof. Vishnu Patidar, (Principal Investigator) Professor, Department of Computer Science & Electronics Prof. Vishal Kadam, (Co Investigator) Professor, Department of Computer Science & Electronics Christian Eminent Academy of Management, Professional Education & Research, F-Sector, HIG, R.S.S. Nagar Main Road, Indore
UGC approval Letter No. and Date	:	MS-100/103039/XII/13-14/CRO Dated 2014

Summary of the Findings

Adaptive Online Examination System has been developed with core issues of Robustness, and security. It addresses today's need for catering various activities related with student evaluation and timely declaration of results. The system has diverse user provisions and administrative functions. The traditional manual examination system leads to huge amount of hard copied documents and tedious processes to handle and control them efficiently. The said problem attracts attention and raises a valid question that which is more beneficial, keeping information in the form of databases or keeping the same on sheets of paper. Keeping the information in the form of hard-copied documents leads few problems that include the issues like space, compilation and classification, sorting and filtering, assessment and review, human efforts and processing, Security. These issues give basis to think of designing and developing a robust examination system to provide a secure automated system which includes various activities related to online examination.

The fundamental Significance of the study is to undertaking design and development for consistency of examination system. It is a modern method of conducting examination widely accepted and speedily increasing environment of conducting examination through online in all the sectors of education. Online exam is the most easiest and economic way to assess a student's own ability by saving time.

It facilitate students with number of different question building options like-topic wise questions, chapter wise questions, unit wise questions, objective questions, descriptive questions, subject wise questions, complete examination paper etc. This option helps students to make their own appraisal to attain their own satisfaction level.

The main Objective of the project is to design & develop a robust, secure & an adaptive Online Examination System to provide better student evaluation process. The basic objectives are

- ✓ Corporate between the data stored in the server of the Institution and our On-line Exam system. To deal with On-line System in an easy way and an efficient mannered. (connection process)
- ✓ Create strong and secrete data base that allow for any connection in a secret way, to prevent any outside or inside attacks.
- ✓ Specify a privilege for each person to allow each person use this system to create his own exam. And have a complete control on his exam.
- ✓ Allow each person to create more than one exam with different way to create variant questions.

Above objectives have been achieved by making use of project scheduling tools like PERT and Gantt Chart which include timeline of entire system.

Analysis phase contains various type of analysis like student survey, faculty survey and examination survey which are taken by various students and faculty of different institutions.

After analysis of the project we perform feasibility study in which functional and non functional requirements have been analyzed. Design phase performed through different types of UML diagrams. In the continuation of design process, coding and database have been completed. Design of output of the system various reports have been designed and generated. At the end the system has been passed undergone through testing.

The end-product so produced; Adaptive Online Examination System is a web application which minimizes the amount of paper and convert all types of documentation into digital form. In this system Information can easily be made available to any user. Since it is a computerized system, therefore anyone with minimum prior knowledge of computer can use this system. The system is designed in a manner that minimal maintenance is required in this system.

SHORT SUMMARY OF THE WORK DONE ON THE UGC MINOR RESEARCH PROJECT

Title of the Research Project	:	Design and Development of a Robust, Secure & an Adaptive Online Examination System
Name and Address of Principal Investigator	:	Prof. Vishnu Patidar, (Principal Investigator) Professor, Department of Computer Science & Electronics Prof. Vishal Kadam, (Co Investigator) Professor, Department of Computer Science & Electronics Christian Eminent Academy of Management, Professional Education & Research, F-Sector, HIG, R.S.S. Nagar Main Road, Indore
UGC approval Letter No. and Date	:	MS-100/103039/XII/13-14/CRO Dated 2014

--