

AUTOMATIC QUESTION PAPER GENERATOR SYSTEM

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Abstract

Generation of question papers through a question bank is an important activity in learning management systems and educational institutions. The quality of question paper is based on various design constraints such as whether a question paper assesses different problem solving skills, whether it covers all units from the syllabus of a course and whether it covers various difficulty levels. The algorithm is illustrated in the paper by using four constraints namely question paper format, coverage of syllabus, coverage of difficulty levels and coverage of cognitive level. The algorithm presented is extensible to support any number of user defined constraints. Preparing the exam questions is very challenging, tedious and time consuming for the instructors. Thus with the help of this paper we present the solution in form of Automatic Question Paper Generator System (QGS). The design process performs the scrutiny and composes the examination paper using an efficient algorithm with a high rate of success. From the entered input, the examination paper will be generated automatically. The final paper may be stored as 'Word Document' files. The system shows characteristics like simple operation, a great interface, good usability, immense security, and high stability along with reliability.

I. INTRODUCTION

A design of suitable automated system for generating question papers and managing related data may prove vital in an Educational Institute. In this paper, we have proposed an integrated automated system that stores

questions related to a particular course and prints a question paper based on its syllabus and curriculum. We have implemented a role-based hierarchy which restricts access to the users. The system also deploys security mechanisms that prohibit duplication of question papers. There are provisions to enter and edit data suitable to any educational organization with complete freedom for specifying courses, semesters, syllabus and pattern. This enables an educational institute to generate question ensuring security and non-repetitiveness of question papers and is a boon for organizations with limited staff and resources. Our system aims to provide fast operations, data storage and high security for all its tasks. The evolution of traditional and existing Question Paper Generation systems and the need for an automated system is unraveled. We have proposed our revised system of Automated Question Paper Generation.

II. PROPOSED SYSTEM

To overcome the existing system anomalies, this question paper generator system is developed.

In this system we present a smart question paper generating system specifically for 'Mumbai University'. It is made to allow university to generate question papers with random but even questions to cover most chapters of subject with difficulty level within seconds and mail them to colleges instantly. In our system we allow administrator to input a set of questions and respective answers for option ticking. We also allow admin to provide weight age and complexity for each of these questions. After this the questions are stored in database along with their weight age. Now on question paper

generating time the admin just has to select the percentage of difficulty. On this selection the system selects questions randomly in a way that their weightage makes up for 80 marks and according to difficulty that admin chooses the questions are chosen based on their complexity level. We will also add optional questions so that the generated question paper will be of total 120 marks out of which optional questions will make up 40 marks. The proposed system will also generate question papers of both Unit Tests that are conducted at the college level. These question papers will be total of 32 marks each with optional questions i.e. 20 marks per paper. The questions are also added for various difficulty levels so that as soon admin chooses the type of paper difficulty (Easy, medium, difficult) the system automatically generates paper, prepares doc file as per selected paper format. Also emails it to other colleges. After this question paper is converted to .pdf file and emailed to colleges on button click.

III. SCOPE OF THE SYSTEM

Free from tension of collecting question as Built in ready to use question bank is available. One can make sets of paper from one database. This software assures no duplicity of questions in database. Question paper once generated can be downloaded or emailed to the admin who has logged in. this software provides well-arranged syllabus of related subjects in chapters or modules. Three level of difficulty of questions are provided i.e. Easy, Medium, and Difficult. Question paper is generated with great ease and accuracy in less than a minute. Keeps record of generated question paper. Question paper can be generated and viewed only by admin and password security is provided. Fully customization of test paper institute name, time, instructions and maximum marks. This software provides unique user authentication facilities. Database backup and restore backup facilities are also provided.

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