

ABSTRACT

An examination may be a crucial activity for any educational establishments that is accustomed to notice the individual's performance and their growth in progress. This online examination method is to be implemented so as to improve their knowledge in all the aspects thoroughly. Preparing the questions manually is extremely difficult, hard and time taking process for the staff. So, we introduced the process of conducting exam online, so that the task for the staff to prepare the questions is reduced and machine takes all the responsibilities after loading the questions. This technique includes many modules like login, subject, questions, ranking etc. This method can take away all those complexities that the workers ought to bear to create the question paper. The random generation rule is utilized by different sources to generate the questions randomly for different systems. Different systems use different techniques of randomisation so as to produce the question paper in an efficient way. The main goal of QPGRA is that it cuts back the duties of lecturers within the examination room. The purpose of non-manual generation systems is to compose the question papers. In step with the features of the data management system, system works inside the two modes they are the user and the administrator. This method can change faculty control to mechanically generate the papers for exam from the question bank which is already existing.

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CHAPTER 1

INTRODUCTION

Online examinations are an important method of evaluating the success potential of students. This research effort the individuals under consideration were students who would be enrolling in computer courses or Technologies Registrations. A prototype of a web-based placement examination system is described from the standpoint of the research effort, end user, and software development.

An online educational system including exam processing and electronic journal features. An instructor builds a course based questions which on-line contain in identification of assignments. Which are compiled into an on-line exam syllabus?

Users enrolled in the platform may access the electronic details they provided and perform various functions with the on-line educational system in order to participate in the on-line examinations. Users can receive an on-line exam, having multimedia content, for the course, and they can electronically provide answers for the exam. And after Completion of their duration of exam they are provided the grade or marks secured in their examinations.

Our project of Question Paper Generator and Result instrument (QPGR) can take away all those complexities that the workers ought to bear to create one paper. The shuffling rule utilized by different similar comes is not up to the mark since they have additional space conjointly as time complexness. There square measure a handful of systems in nowadays market that offered the similar services like what we tend to square measure building. These systems square measure developed by totally {different completely different} developer with different options. The randomization techniques utilized by such system is to boot completely different. Victimization this code an equivalent action may be accomplished in minutes and even in absence of operators. The best a part of the code is that it takes intelligent choices to eliminate recurrent queries and check seven for the alternatives. Not solely this, for formation of a matter paper it's conjointly potential to limit the search to queries that haven't been used in the least

or are used but nominative variety of times. This makes it greatly advantageous because the headache of manually avoiding repetition at the time of feeding is completely eradicated. These automatic systems offer value saving and time-efficient solutions. Associate degree oval epitome of randomization theme has been delineate throughout this paper. The most purpose of this application is to elucidate automatic question paper generator victimization shuffling rule for randomization. This technique is desktop-based application system with many options chiefly manufacturing unduplicated sets of examination paper. The result shows the potential professional of soppo employment of such rule for this sort of system. Our future effort is to use differing types of randomization likewise as additionally to question generation we are able to enhance an equivalent code by creating provision to provide queries from straightforward on-line text, which can be achieved victimization tongue process algorithms.

The main objective of QPGRA is to cut back the work load of lecturers within the examination cell .The core purpose of automatic generation systems is composing examination papers. In step with the general characteristics of the information management system, the system works inside the user mode and thus the administrator mode. The said user during this case is that the examiner. Our project is can change faculty authorities to mechanically generate question papers out of existing question bank inside the information. The system can have capability to method completely different distinctive sets of papers terribly mechanically. It takes over the complete tedious task and will the manual, toilsome work fleetly and with efficiency. You' ll be able to organize the question bank in step with subject, class, section and marks of the form. The code performs all tasks related to paper setting, starting from getting ready question bank to printing paper. Code is extraordinarily helpful for small medium and large scale institutes. The code can empower the college with a robust tool to urge question papers throughout a really short span of it slow therefore saving heaps of their precious time. The authorities have the pliability to urge category tests, unit tests, terminal tests, and final tests.

QPGRA Paper Generator is special and distinctive code, which can be utilized in class, establishments, colleges, check paper setters World Health

Organization wish to possess an enormous information of queries for frequent generation of question. This code may be enforced in numerous medical, engineering and coaching institutes for theory paper. You'll be able to produce random question paper with these code anytime inside seconds. You'll be able to enter unlimited units and chapter relying upon the system storage, capability and as per the necessity.

1.1 Examinations in Autonomous

Institutes Examinations predominantly use question papers as a vital constituent to discover the caliber of students. A good exam gives all students an equal opportunity to fully demonstrate their learning. The National Board of Accreditation (NBA),India states that Autonomous institutes should encourage the standard of teaching, self-analysis and responsibility in higher education and promote the Institutions in perceive their educational aim, embrace education exercises that accredit them to yield appreciative quality professionals and to aid them in ceaselessly bestowing to the area of education through transformation & research. Assessment is one or more activity that recognizes, gather, and construct data to assess the fulfillment of Course outcome and program Outcomes. Automatic Question paper generator system considers question paper creation as its fundamental activity, and the caliber of questions is the key in enhancing examination standard, which depend on intelligent and random choice of a set of questions.

1.2 Teacher's role and responsibility

Producing exam questions is challenging, monotonous and time consuming for teachers. Usually the teachers retain their own question banks in some form which aids them compose future exams question papers. In autonomous institutes there are some rules and regulations which are to be practiced by the teachers. They are as follows:

- To add variety to student learning
- To motivate students to study
- To provide statistics for the course or institution
- To facilitate students' choices

- Consider the point value of different question types.
- Creating objective test questions

1.3 Question Paper Generation

In today's current ambitious world, an examination plays a crucial role in checking the academic development of students and the era of information technology is now substituted by productive application of the technology. So producing utility from knowledge is crucial for development of society into an "Information Society". For various examinations conducted in a year in any academic course, teachers need to create variation of question papers as per the autonomous college guidelines and assessment requirements. It is very difficult for the teachers to cover all features of the course outcomes and evade duplication of questions in the succeeding exams. There is no systematic procedure and hence the quality of the question paper relies entirely on an individual teacher's experience and proficiency. At times, this entire element may degrade standard of the question paper. As per research, a quality question paper is a real combination of questions supervised by varied criteria such as difficulty level, distribution of marks across the question paper in form of paper pattern and the type of examination.

The procedure involved in composition of an equitable examination paper by an independent is challenging and complex. Standard of the examination paper rely on diverse set of specifications so taking into account the distinct levels of learners is also a crucial parameter and the course outcomes also play a vital role in planning a systematic question paper. So associating the learning outcome of the subject to the examination paper is also a great job. With the profound dispersal of technology in the area of education, acquiring technology to smooth the technique of examination paper creation is a pure option and creation of extensively vast question bank and automatic exam paper generation furnishes a key provision to the issue encountered during the manual composition of examination papers.

Automatic creation of examination paper yields a stage to create a well-organized examination paper and also the automation would smooth in incorporating many elements determining quality of a question paper. The

structure presented in the next module is to automate the activity of examination paper generation. The system would be comprised of a cluster of questions upon which regulation would be implemented to create question paper. The structure is general and is not for any specific branch of learning. It seeks to furnish a generic procedure to the diverse requirement of distinct fields of study. This generic structure can be redesigned to all departments in colleges thus ease the assessment needs. Before the exam could be given to the student, teachers must compose the questions according to the modules covered for individual subject.

A proficient question paper is habitually fit for usual students but it also encloses demanding items for clever students. Thus automatically creating question paper from a teacher's entered description using a semantically labelled question bank is the requirement of the hour in present day. Here we are implementing a system which accordingly creates the question paper from this semantically labelled question bank. Since the prevailing systems are stiff and absence of flexibility of aiding all types of labels, the produced question paper may not be completely range with its given outcomes. Our each stuff is defined with a range demonstrating that value should not be under the bottom value and not surpass the topmost value of the range. Also, it is rule base system which takes all the associations of the labels and creates solution based on the rule relevant.

The software methodology followed in this project includes the object-oriented methodology and the application system development methodologies. The description of these methodologies is given below. Although there are a growing number of applications (such as decision support systems) that should be developed using an experimental process strategy such as prototyping, a significant amount of new development work continue to involve major operational applications of broad scope. The application systems are large highly structured. User task comprehension and developer task proficiency is usually high. These factors suggest a linear or iterative assurance strategy. The most common method for this stage class of problems is a system development life cycle modal in which each stage of development is well defined and has straightforward requirements for deliverables, feedback and sign off. The system development life cycle is

described in detail since it continues to be an appropriate methodology for a significant part of new development work.

The basic idea of the system development life cycle is that there is a well-defined process by which an application is conceived and developed and implemented . The life cycle gives structure to a creative process. In order to manage and control the development effort, it is necessary to know what should have been done, what has been done, and what has yet to be accomplished. The phrases in the system development life cycle provide a basis for management and control because they define segments of the flow of work, which can be identified for managerial purposes and specifies the documents or other deliverables to be produced in each phase.

The phases in the life cycle for information system development are described differently by different writers, but the differences are primarily in the amount of necessity and manner of categorization. There is a general agreement on the flow of development steps and the necessity for control procedures at each stage. The information system development cycle for an application consists of three major stages. Definition, Development, Installation and operation are the phases. The first stage of the process, which defines the information requirements for a feasible cost effective system. The requirements are then translated into a physical system of forms, procedures, programs etc., by the system design, computer programming and procedure development. The resulting system is test and put into operation. No system is perfect so there is always a need for maintenance changes. To complete the cycle, there should be a post audit of the system to evaluate how well it performs and how well it meets the cost and performance specifications. The stages of definition, development and installation and operation can therefore be divided into smaller steps or phrases as follows. Proposed definition is preparation of request for proposed applications. Feasibility assessment is evaluation of feasibility and cost benefit of proposed system. Information requirement analysis determination of information needed. Conceptual design is User-oriented design of application development. Physical system design is detailed design of flows and processes in applications processing system and preparation of program specification. Program development is coding and