

Automatic Question Paper Generator

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ABSTRACT

Today, education is the key to success. When discussing education, tests and exams are essential. Examinations prepare students for learning. Thus, an appropriate exam paper and format are essential. The traditional way of creating question papers is manual. This procedure involves officials chalking the question paper. Bias, repetition, and security concerns can make this strategy unsuccessful. We offer a rapid, simplified, randomized, and secure automated question paper generation mechanism. Every task this system does is automated, eliminating storage space, bias, and security concerns. We also introduced a novel approach that completely randomizes questions and avoids repetitions. The proposed approach can aid numerous educational and NGO institutes.

A proper automated system for creating question papers and maintaining data may be crucial in an educational institute. This study proposes an integrated automated system that saves course questions and prints a question paper based on its syllabus and curriculum. We restrict user access through a role-based structure. Question paper duplication is prevented via system security. Any educational organization can enter and amend data with total freedom to specify courses, semesters, syllabus, and pattern. This allows educational institutions to generate secure, non-repetitive question papers, which benefits companies with limited staff and resources. Our system wants rapid operations, data storage, and strong security for all functions

Keyword: Randomizes Question, Storage Space, Storage Security, Rapid Operation, Data Storage.

1.Introduction: Due to computer science growth and demand, this is a difficult time. Examinations are crucial to assessing student achievement. That's why a smart development question model is crucial for student growth and testing learning skills to monitor performance. An effective question paper is crucial for every educational institution. Traditional lecturers manually preparing question papers is tiresome and difficult. This technical paper presents the Automated Question Paper Generator System solution.

Today, time is crucial. Any product that saves time and power is valued. Thus, we provide an Automated Question Paper Generator System to reduce time consumption by replacing the traditional way. Also, fewer people are needed. Our technology allows administrators to enter questions. We let admin add weight, age, and complexity to each inquiry. After that, the questions and weight age are stored in the database. During question paper generation, the admin just chooses the difficulty level. The machine randomly selects questions based on admin's difficulty. The difficulty of the questions determines them. Multiple choice questions can be added to the project to produce a question paper for aptitude exams given by corporations during placements. The system automatically generates paper and doc file in desired format. Send it to other colleges through email. This question paper is converted to pdf and emailed to colleges on button click.

Creating a question paper takes time and makes teachers bored of doing the same thing. This project solves these problems. We generated the question paper using random questions from the database in this project.

A randomization algorithm selects questions by course, semester, subject, and marks. The administration and students use the aforementioned questionnaire design to save time and preparation for exams.

Any educational field aims to increase student performance. As manual question papers demand more time and energy for teachers to produce by writer's expertise and experience, we present an automatic question paper generation system. This method automatically processes rare papers with fewer manpower. The technology handles all challenging tasks and paperwork quickly. A database stores question bank by branch, difficulty level, course, subject, and semester. The automatic paper generator does all paper-making work. Example work on picking a subject, difficulty level, and number of questions to write a paper for small and large institutes.

The teacher only needs to choose the subject and difficulty level when creating question papers after these questions are recorded in the database. The number of queries. On this selection, the system randomly selects questions based on teacher-selected difficulty and subject. The ready-to-use question bank eliminates the need to collect papers. Question duplication is avoided. The difficulty levels are Beginner, Intermediate, and Expert.

1.1 PROBLEM DEFINATION

To enhance the process of automatic question paper generation to propose model uses the random question generation technique and to compile the same

2. CQG (Cloze question generation):

This is a system that generated list of cloze questions given in English article. CQG system is split into three main module, Sentence selection, key selection and distractor selection. In the first stage, informative and relevant sentences are selected and within the second stage, keywords (or words/phrases to be questioned on) are identified within the selected sentence key selection won't be noun or adjective it would find on the basis of NER. Distractors (or answer alternatives) for the keyword within the question sentence are chosen within the final stage. First two stage do not seem to be domain specific. third stage is domain specific, because quality of distractor depends on domain so distractor are going to be selected on the idea of the key selected and through web, list of distractors are going to be generated and knowledge based distractor list will generated. And evaluation of the system is completed manually through three phases.

- 1). Evaluation of the chosen sentence
- 2). Evaluation of selected keyword and
- 3). Evaluation of selected distractor

2.1 Sub Title-[1] Automatic Question Generation system called GAsk:

This is a system which generates particular questions as a sort of guidance for student learning. A case study was conducted on a large range which involved 24 supervisors and 33 students which resulted on comparing question generated from the software and human generated questions, which proved software generated most efficient. Compared and Citation Classification performance is completed through precision and recall, and Question Quality evaluation is completed through Cohen's Kappa coefficient. For generating question syntactic category Labeler and NER (Named Entity Recognizer) is employed to spot whether its Name, Location or Name of Organization. Once Question sentence is ready, then measures the similarity between the Question sentence and every sentences from the Question knowledge based. Sort the obtained similarity values from other sentences and find three keyword from three different sentences as an distractor values. The results of research was nearly 145 parsed sentences, there have been 109 considered better for the keywords obtained from them.

2.2 Sub Title- 2] Automatic question paper generator system :

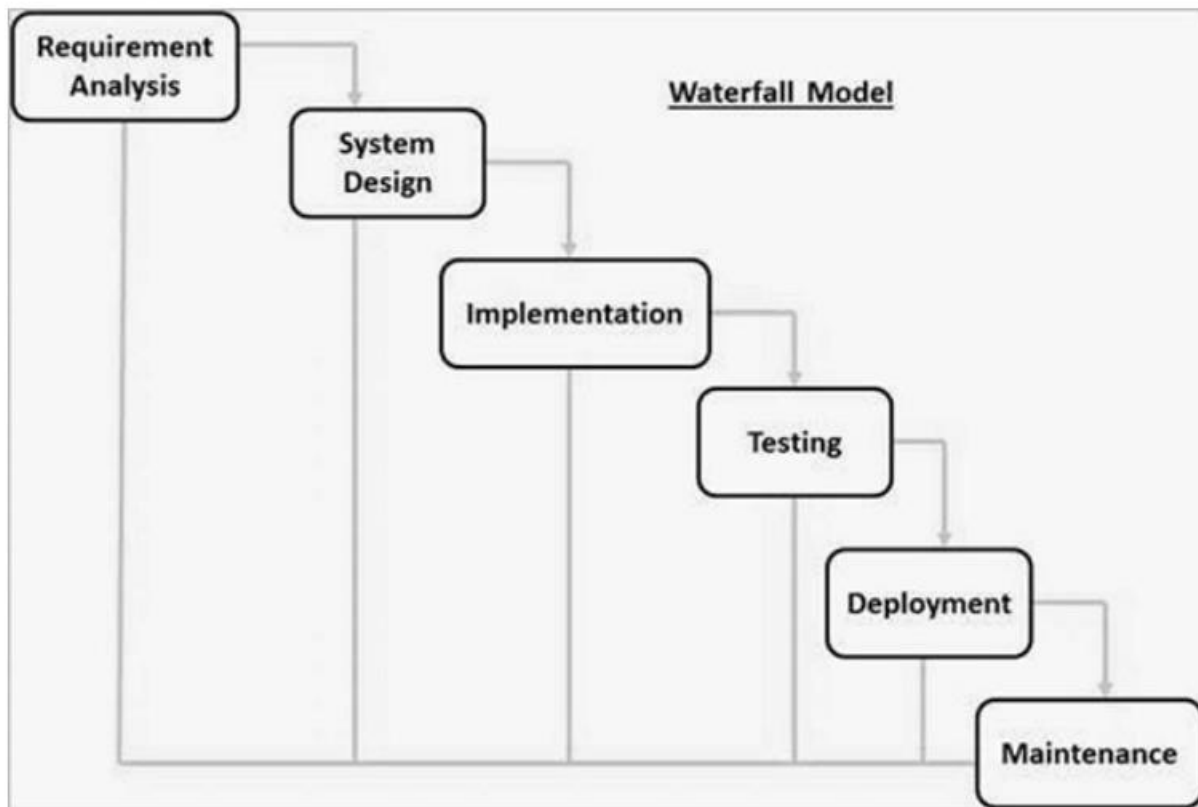
This system used a randomized technique. this method has modules like user administration, subject selection, difficulty level specification, question entry, question management, paper generation, and paper

management. The system uses attributes like storing question in database, admin selected complexity level of questions, maintenance of the database.

3. TITLE-[3] Framework for Automatic examination Generation System:

This system provided the method to generate automatic question paper. Manually generation of question paper is sort of a difficult task. This system provided a straightforward and efficient way for an examination paper generations. A three-tier model is provided during this framework. Generation of Examination Papers is managed by the Syllabus Engine, Pattern Composer, and Question Aggregator. The system relies on the pattern or skeleton of the course. within the system, questions are entered through the Question Aggregator. Weight age, the issue level of question and marks these are the attributes of question paper.

3.1 Sub Title-1



4. CONCLUSIONS

The proposed work describes an automated system that progresses from the traditional method of paper generation to an automated process, by providing controlled access to the resources. This is achieved by comprehending users and their roles in the institute. We have also considered the importance of randomization in the task of paper generation. Our system has deployed an efficient algorithm which is totally randomized and avoids repetition of questions in consequent question papers, making it impossible to derive any pattern in the papers. We distinguish between administrators and subordinates by their tasks. Therefore, the resultant automated system for Question Paper Generation provides improvement in terms of controlled access to the resources, random generation of question papers and a secure platform.

5. ACKNOWLEDGEMENT

Automatic Question Paper Generator is designed keeping in mind with many future possibilities that can improve the software to be more productive and secure.

- The methodologies that we presented for generating question paper show promising outcomes and can be utilized as a basis for making a more advanced automatic and independent paper generator.
- This software can take its true form when a large number of questions are added into a dedicated database which will unlock a whole new potential of portability.
- With the large database security threats are a major concern. To avoid this, a more secure database can also be achieved, which will make sure that only an authorized person can have access to this software.
- Our effort is to develop this software for important exams such as SSC, HSC. This will be beneficial to the students as they are more inclined to solve multiple papers.
- With all these possibilities, this software will be more secure and will also provide much better results.
- In the future this system can be enhance to work as a web application or mobile application that can serve the many disciplines.

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