

QUESTION PAPER AUTOMATION

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Abstract: Curiosity is the fuel for discoveries and learning, and we humans are always curious about learning novel things. Asking different types of questions is a tendency of a good learner and so the students ask a variety of questions from their teachers. Similarly to examine the students, the teachers also ask questions from the students and also evaluate their performances. Because of their inconsistent minds in certain situations, sometimes humans are not very skilled in asking good questions and because of that we have come with the idea of a system with the help of which we would be able to generate the questions from a text automatically. The system is known as the Automated Question Paper Generator System, which is a fast and secure system and which can also generate questions in a random way. The document or pdf file or simply text can be provided as an input to this proposed system using Natural language Processing, Html, CSS, PHP and My SQL.

1. INTRODUCTION

Traditionally question papers were generated manually. Preparing any exam paper is a very challenging task for the educators because they have to check whether there is any repetition in the pattern or not, and other than that security is one of the major concerns for them, also due to lack of teaching staff in any institute, creation of paper is not at all an easy task. So, here we are proposing an Intelligent Automatic Question Paper Generator System which

provides storage of the data, fast operations and high security for all its tasks. It can be helpful to many educational as well as NGO institutes. Tasks performed by this system are automated and because of that storage space, security is not a concern anymore. Proposed system works upon Natural Language Processing and is fast due to computer Based automation, streamlined, randomized and unbiased, secure and generates unique questions and overcomes the problems of Human based paper generation.

Difference Between Manual Process and Automated Process of Question Paper Generator

Manual Paper Generation	Automated Paper Generation
It is a human process.	It is an automated process.
In this process repetition in paper may occur.	It is a random as well as unbiased process
Less Security.	Higher security.
It is a slow process.	It is a faster process.
It has less varieties of questions.	It has more varieties of questions.

Limitations to the existing paper generator include:

- ❖ Inadequacy of storage space.
- ❖ May be harmed.
- ❖ Indigent environmental credentials.
- ❖ Incapable document transportation.

- ❖ Collaboration restricted.
- ❖ Problems related to modification.

2. PROBLEM STATEMENT

The main task is to create questions automatically based on the given text, ie. sentences or groups of sentences. The basic input is a positive or declarative sentence or group of sentences. The output should be different kinds of questions depending on the type of sentences Basically we can say that the input would simply be the text whereas output would be a number of questions. The basic goal of this system is to offer a solution to the problem of first breaking down the paragraph and then turning it into questions.

There are different types of problems that exist in the current manual system of question paper generation. These problems are:

- ✓ Low security as paper is not secured using any mechanism.
- ✓ Patterns or repetitions may occur in paper.
- ✓ Slow as human labor is involved.
- ✓ Less variety of different types of questions.

Thus, there are many problems associated with manual human-based question paper generation, therefore to overcome this we came up with 'Automatic Intelligent Question Paper Generator'.

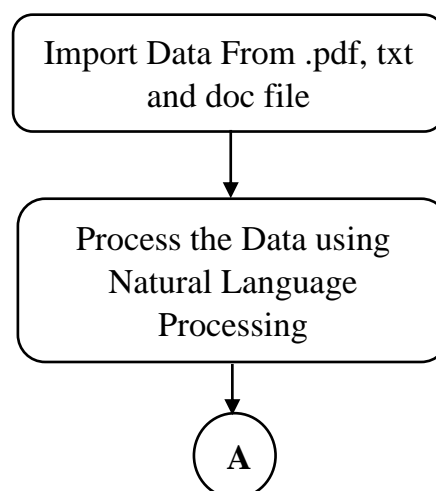
3. PROPOSED SOLUTION

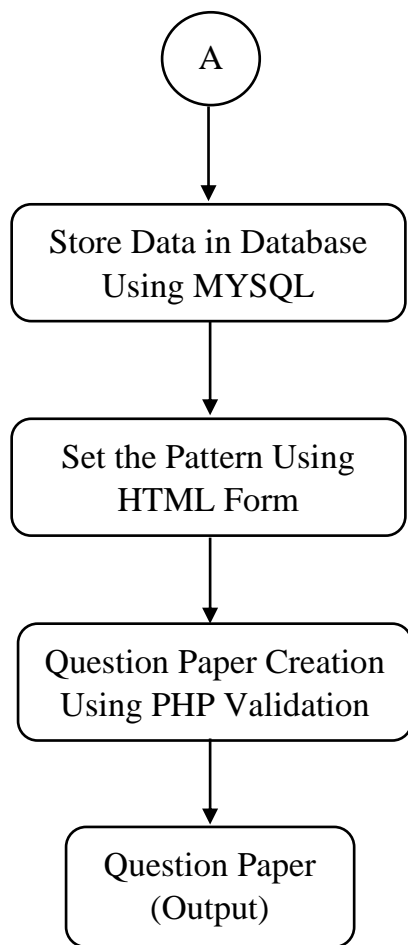
In today's ambition, examination plays an important role in ensuring students' academic progress and the era of information technology is now being replaced by the productive application of technology. In the "information society" the production of utility from knowledge is important for the development of society. For various examinations conducted in any academic course in one year, teachers are required to make a variety of question papers as per the

guidelines and evaluation requirements of the college. It is a tough task for the teacher to cover all the characteristics of the course results and avoid duplication of questions in successful exams. Many times, this entire element may degrade the standard of the question paper. Automated creation of exam paper provides a platform to create a streamlined exam paper and at the same time automation is easy to incorporate many elements that determine the quality of the question paper. An efficient question paper is generally suitable for ordinary students, but it also engages the demanding item for clever students Thus automatically creating a question paper from a description entered by a teacher uses a word-labeled question bank that is currently required by the hour. Here we are implementing a system which accordingly creates the question paper from this semantically labelled question bank.

4. PROPOSED SYSTEM IMPLEMENTATION

The Automatic Question Paper Generator System is developed using the Natural Language Processing, Html, CSS, PHP and My SQL. In a fully functional system, there is a repository of syllabus, questions and pattern of question papers. It takes a simple text, a document or a pdf file as an input and provides a list of questions as an output. Process that is followed for generating questions automatically has the following steps –





5. FUTURE SCOPE AND APPLICATION

This software can be widely used in educational institutes etc. It is a web Based application so user location doesn't matter. Admin can access this software anywhere anytime. This system also evaluates the candidate's capability and skills efficiently. It is a fully automated system which results in fast results. In this system there is no need of transporting paper through police/security vans to all colleges. This system provides unbiased results. The usage of this system reduces human effort and saves time and resources to an extent. This project can be further extended to generate yes/no type questions and fill in the blanks type questions. Further automatic answer copy checking systems can be added for checking the answer sheets and providing the result to the student.

6. CONCLUSION

The question selection difficulty has been formulated as a multi-constraint optimization issue, which aims to produce question papers that meet several constraints stated by the paper setter. Intelligent Question Paper Generator will generate a well formatted question paper in a matter of a few seconds i.e. saving a lot of time when compared to traditional systems. With the use of this system for question paper generation there are no chances of exam paper getting leaked as paper is generated just before the test. It will save a lot of time for teachers and thus will improve efficiency. The implemented process strives to solve the problems listed above in a positive way. The implemented work narrates an automated system that heads away from the traditional process of paper generation to an automated process, by giving controlled entry to the resources that is attained by involving users and their roles in the colleges. We have also considered the importance of randomization in the process of paper generation. This system uses a logical algorithm which is absolutely randomized in nature and it also avoids duplication of questions. And therefore, the resultant automated system for Question Paper Generation will yield a growth in phrase of random creation of question papers and also a secured platform.

7. REFERENCES

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