

# Automatic Generation of Question Paper

Prof. Sarika Patil<sup>1</sup> Omkar Pawar<sup>2</sup> Gunjan Nanaware<sup>3</sup> Snehal Patil<sup>4</sup>

<sup>1,2,3,4</sup>Keystone School of Engineering, India

**Abstract**— Education is one of the way in achieving success. Examinations is a way to make out whether students have got proper learning objectives of subjects or courses. For this, proper exam paper and format is needed. It is very challenging for teachers to generate question papers in proper format and which meet learning objectives of courses .Hence, a need arise to generate question paper automatically in proper format and in less time. We have proposed a system which will automatically generate question paper that ensures randomized questions, various difficulty levels and avoids repetition and duplication of questions from previous year. The question paper is generated in pdf or csv format.

**Key words:** Question Paper, Difficulty Level, Question Bank, Automation

## I. INTRODUCTION

Nowadays there is a lot of competition going on in the world. So examinations plays a vital role in measuring the capabilities of students which will help them to take decisions regarding their career. Every year exams are conducted .Teachers need to generate variety of question paper which meet the requirement of educational system .It is burden for teachers to cover all points or topics of academic courses without repetition of questions from previous question papers.

It solely depends on teacher’s experience. All this factors may degrade quality of question papers. Our proposed system will automatically generate question paper which will be generated from the repository based in database or from teachers entered question bank. It will provide different options like managing difficulty levels LMH (low, medium, high), proper distribution of marks, proper paper format and will avoid duplications and repetitions of questions. Our system will also contain previous year question paper which can be downloaded and viewed for reference. Our system will generate four sets of question paper in the form of csv or pdf format which will be secured by using email encryption.

## II. LITERATURE SURVEY

- 1) “Automated generation of question paper for online MCQ test by using Shuffling algorithm “  
– Mayuri Bankar, Pratiksha Bhor, Pranjal Bhalerao, Prof. Archana Dere.

In this paper shuffling technique is use to generate automatic question paper for online MCQ test. By using this technique we can able to set question paper and conduct the demo as well as final test. Student’s performance get improved by providing correct answer during the conduction of demo test. Admin able to approve respective subject teacher and teacher has authority to cancel the test. Notification about cancelation of test is given to student also result of student and teacher is shown to admin.

- 2) “Automatic Question Paper Generation System using Randomization Algorithm”  
– Kapil Naik, Shreyas Sule, Shruti Jadhav, Surya Pandey.

This system includes several modules like user administration, subject selection, difficulty level specification, question entry, question management, paper generation, and paper management. From the entered input, the examination paper will be generated automatically.

- 3) “Design of Adaptive Question Bank Development and Management System” Vijay Krishan Purohit', Abhijeet Kumar' , Asma Jabeen' , Saurabh Srivastava' , R H Goudar' ,Shivanagowda+, Sreenivasa Rao.

In this paper, we are designing an adaptive question bank management system that is intelligently picking questions from rich database (question bank) and representing the question model according to the inputs or parameters provided by the question paper designer (QPD). This question bank uses concept map developed using graphical method that uses hierarchical knowledge of particular domain.

- 4) “Criteria for evaluating the quality of a question paper”  
Ajit Kumar N Shukla

This paper proposes the method of quality evaluation and present result based on examining few of the question papers. The method so developed can be expanded as per the perception and uniform code of quality can be awarded.

## III. PROPOSED SYSTEM

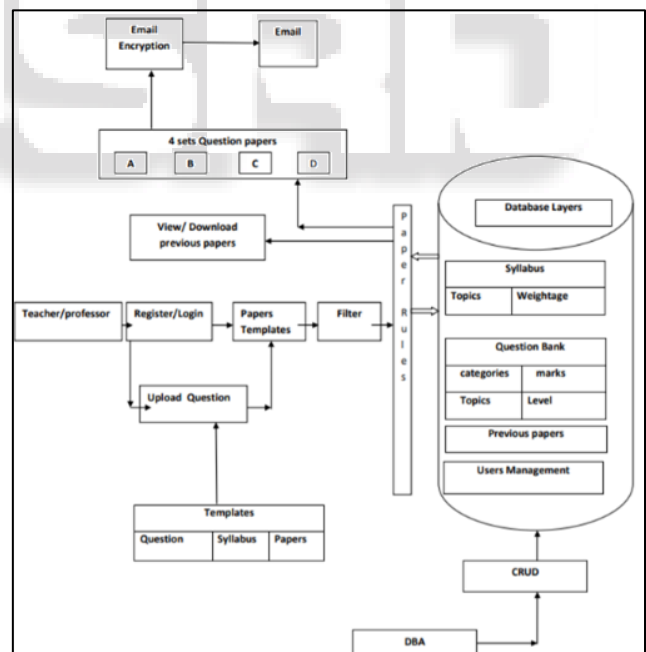


Fig. 1: Proposed System

In proposed system the teacher will have to first register to get authorized. After registration he will login the system. Thereafter he will be provided with two options .First upload question bank and second provide question paper template.

If he chooses first option he will have to provide the question bank in specified format in which the question paper will be generated. And if he chooses the second option then he will have to choose available templates or can generate his own template by entering the specifications in the form provided .Based on selected option and template the question

paper will be filtered. The filter will include difficulty levels (low, medium, high), avoiding duplications and repetitions of questions from previous years. After that four sets will be generated in csv or pdf format which will be secured by email encryption.

#### IV. ENCRYPTION AND DECRYPTION ALGORITHM

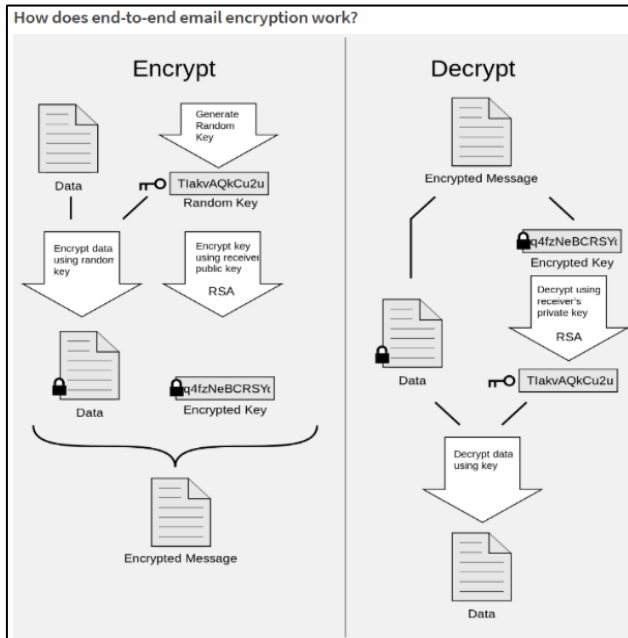


Fig. 2: Encryption & Decryption Algorithm

End-to-end email encryption is a method of transmitting data where only the sender and receiver can read email messages. With end-to-end email encryption, the data is encrypted on the sender's system. Only the intended recipient will be able to decrypt and read it. Nobody in between can read the message or tamper with it. End-to-end email encryption provides the highest level of confidentiality and protection to our email communication.

#### V. ADVANTAGES

- 1) Saves time.
- 2) Reduce the efforts of teachers.
- 3) Use of technology.
- 4) Eliminate duplication and repetition of questions.

#### VI. APPLICATIONS

- 1) Teachers/Professors
- 2) Universities
- 3) Educational Institutes.

#### VII. CONCLUSION

In this way we have implemented a system which automatically generates question papers in proper format that meets learning objectives and reduce the efforts of teachers.

#### REFERENCES

- [1] Gauri Nalawade , Rekha Ramesh "Automatic Generation of Question Paper from User Entered Specifications using a Semantically Tagged Question Repository", 2016

IEEE 8th International Conference on Technology for Education.

- [2] Vijay Krishan Purohit', Abhijeet Kumar', Asma Jabeen', Saurabh Srivastava', R H Goudar' ,Shivanagowda, "Design of Adaptive Question Bank Development and Management System", 2nd IEEE International Conference on Parallel, Distributed and Grid Computing, 2012
- [3] Kapil Naik, Shreyas Sule, Shruti Jadhav, Surya Pandey, " Automatic Question Paper Generation System Using Randomization Algorithm", (IJETR) ISSN: 2321-0869, Volume-2, Issue-12, December 2014
- [4] Kumar, Ajit, and N. Shukla. "Criteria for evaluating the quality of a question paper." Journal of Technical Education and Training 3.1 (2011): 1-6.
- [5] "Mayuri Bankar, Pratiksha Bhor, Pranjal Bhalerao, Prof. Archana Dere ."Automated generation of question paper for online MCQ test by using Shuffling algorithm". © 2018 IJRTI | Volume 3, Issue 4 | ISSN: 2456-3315.