

# WEB BASED SECURE QUESTION PAPER GENERATING SYSTEM.

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*Abstract* : In any educational institute, different courses are there with their objectives. According to courses, the teacher conducts the exams to check student's potential. For this teacher have to create question paper with different courses which are a very difficult task for the teacher.

Hence there is a need to develop such a system which will automatically generate question paper within very less amount of time. The proposed system generates question paper with the good pattern as well as take care of there is no question repetition. Due to the use of this system, we can easily add or remove questions. This system gives flexibility, efficiency, correctness and saves a lot of time.

*Index Terms* - Web, Question paper, Automatic, Application, Course Objective.

## I. INTRODUCTION

It is a tedious task when we set question paper by manually. To reduce teachers effort we are launching " Secure Web-Based Question Paper Generating System" which is a web-based application, this proposed system will design for generating question papers which play important role in an Educational Institute or University. Teachers are able to store questions in the database with the respective subject. This system will enable higher authority (HOD) to automatically generate question papers out of existing question bank which is already stored by teachers. The paper generator is the one & only software for setting examination question paper based on CO's and weight of chapter. The software is very useful for small medium and large scale institutes. This software will help the college to generate question papers in a very short time period. Thus saving a lot of their precious time to set Question paper. The question paper based on its pattern it's consist of question no, question, marks for the question, and module. The question must be unique. [1][3]

## II. LITERATURE REVIEW

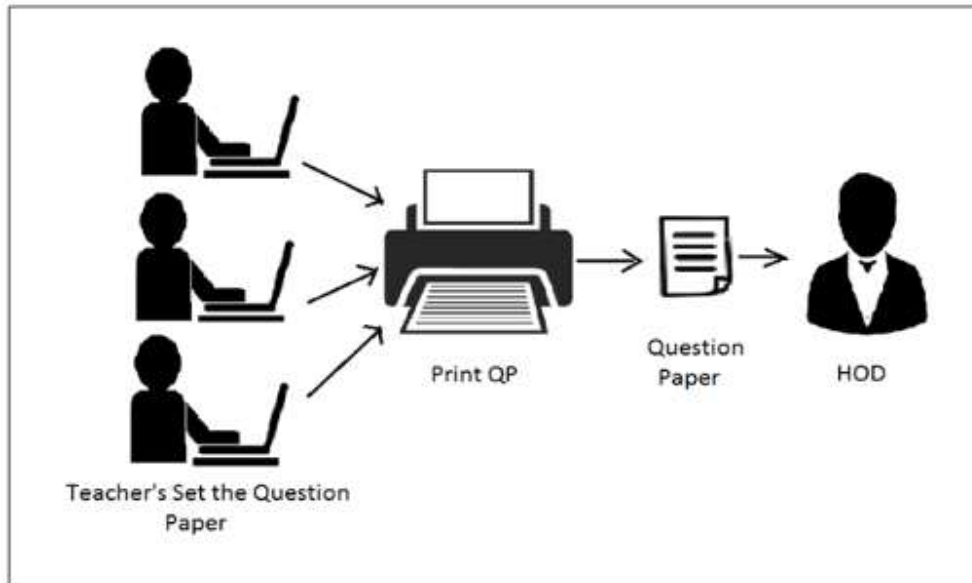
To understand the basic needs of automatic question paper generation system, we were started a literature survey. For generating question paper we need question bank and from that question bank, we have to generate question paper. A well-defined question bank contains questions with their different attributes: question id, question type, difficulty level, CO's and marks. There are two levels. In the first level, some important specifications are required such as university, course, year, semester, subject name and total marks of that question paper. In the second level question, a paper specification is required such as question id, question type, course outcome (CO), marks and topic. There will be some important notes add to that question paper.

- 1: Question no 1 is compulsory.
- 2: All questions carry equal marks.

After completing these two levels, we have to go for validation and to check whether the user gives valid input or not. If user entry is not valid then the system will give an error message according to that particular input. After validation, a user chooses to generate question paper as per the algorithm.[6]

**III. SYSTEM**

**A. Existing System**



**fig1: Existing System.**

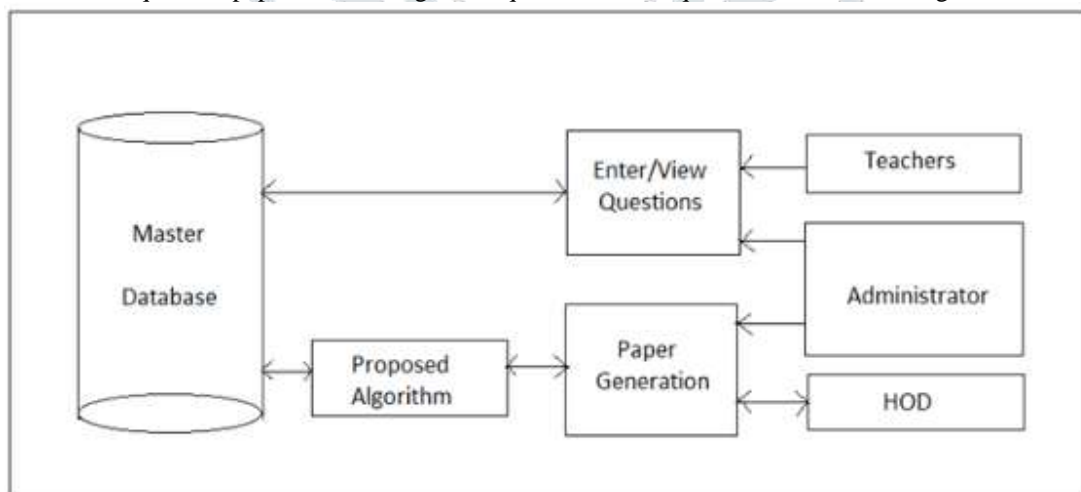
The existing system for paper generation is a manual process. There is a need for human efforts to create question paper. Teacher select the question based on the syllabus, weight of topic and CO's. The teacher sends the single hard copy of question paper to a higher authority (HOD). The exam coordinator will Xerox that question paper depending upon the strength of the class.

**Drawbacks of Existing System:-**

- a) Consumes more time.
- b) Require more teacher efforts.
- c) Repetition of a question may occur.
- d) Difficult to analyze questions manually.
- e) There are chances to paper leakage.

**B. Proposed System**

The drawback of the existing system is overcome by the proposed system. If we compare with the existing system, the proposed system will be less time consuming and more efficient. The question paper which is generated will be a good pattern and there is no repetition of the question. The proposed system is more secure because the HOD will set the question paper and teacher cannot able to see question paper. The sorting of the questions with equal distributions of weight is automated.



**fig2: Architecture diagram for proposed system**

**C. Working of the System**

First HOD will log in to the system. Then he will assign a unique ID and password to every teacher. HOD will store those ID and password to the database. Without ID and password, the teacher will not be able to enter in the system. After entering the system teacher has access rights to create his own subject. The teacher will enter the question with the respective subject and those questions will store in the database. HOD has rights to see all questions which are stored by all teachers. And there is one button at HOD side to set question paper among the question bank. After clicking on that button proposed algorithm will start working and it will select the question based on criteria. Criteria may include a number of chapters, weight of chapter, CO's, marks of the question. The algorithm will take care of there is no repetition of the question.

**IV. DESIGN**

Automatic Question Paper Generating System											
<table border="1"> <tr> <td><b>Create Subject</b></td> <td>▼</td> </tr> <tr> <td colspan="2">New Subject</td> </tr> <tr> <td colspan="2">Update Subject</td> </tr> <tr> <td><b>Subject List</b></td> <td>▼</td> </tr> <tr> <td colspan="2">View</td> </tr> </table>	<b>Create Subject</b>	▼	New Subject		Update Subject		<b>Subject List</b>	▼	View		<p>Subject Name <input type="text"/></p> <p>Semester <input type="text"/></p> <p>Subject Code <input type="text"/></p> <p>Department <input type="text"/></p> <p><b>Create</b> <b>Cancel</b></p>
<b>Create Subject</b>	▼										
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Automatic Question Paper Generating System											
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<b>Create Subject</b>	▼										
<b>Subject List</b>	▼										
Subject 1											
Subject 2											
View											

Automatic Question Paper Generating System	
Create Subject ▼	
Subject List ▼	
Subject 1	Question <input type="text"/>
Subject 2	Diagram <input type="text"/>
View	CO <input type="text"/> ▼
	Chapter <input type="text"/> ▼
	Mark <input type="text"/> ▼
	2 Marks
	5 marks
	Add <input type="button" value="Add"/> <input type="button" value="Cancel"/>

## V. SCOPE OF SYSTEM

Expertise teacher is required to generate a paper with all course learning objectives and mapping marks weight of every chapter in the paper. But there is a shortage of experienced teachers in institutions or university. Existing System consists of very much errors and lacunas which are more crucial to handle manually. Our proposed system is based on automation for generating question papers with all mapping constraints that are required to develop a paper.

The proposed system has a future scope for more enhancement as the system developed by us has more similar functions to the available existing system. Depending on the requirement of question paper generation, the system can be made to generate paper according to the requirement specified. For example, if the user wants to create an internal assessment paper, he could smartly map paper according to the course objectives defined, marks weight for every chapter and according to the paper format. Also, users would be delighted to have a feature to present statistics for gaps in a user given specifications and system generated specifications.[6]

## VI. ACKNOWLEDGEMENT

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