

# Automatic Question Paper Generator System

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**Abstract** - Now a days the Generation of question paper is important task for the question paper setter. Question paper setter have to set the paper according to the course objective, difficulty levels of a questions paper setter have to take care of covers all the units in syllabus and whether it covers various difficulty levels according to Bloom's Taxonomy. The algorithm illustrated in the paper by using four constraints namely question paper format, coverage of syllabus, coverage of bloom's taxonomy and coverage of course objectives. The algorithm presented is extensible to support any number of user defined constraints. Set the question paper is a challenging, tedious and time consuming for the paper setter because every time the paper setter need to collect the questions. Thus we provide the solution for that is Automatic Question Paper Generator System(AQPGS). The design process performs the scrutiny and composes the examination paper using an efficient algorithm with a high rate of success.

**Key Words:** Python, MySQL, Shuffling algorithm, question paper generation.

## 1. INTRODUCTION

In this system we present a Automatic question paper generating system for universities. It is made to allow universities to generate question papers with random but even questions to cover most chapters of subject with difficulty level within seconds and mail them to colleges instantly. In our system we allow administrator to input a set of questions and respective answers for option ticking. We also allow admin to provide weight age and complexity for each of these questions. After this the questions are stored in database along with their weight age. Now on question paper generating time the admin just has to select the percentage of difficulty. On this selection the system selects questions randomly in a way that their weightage makes up for 100 marks and according to difficulty that admin chooses the questions are chosen based on their complexity level. The questions are also added for various difficulty levels so that as soon admin chooses the type of paper difficulty (Easy, medium, difficult) the system automatically generates paper, prepares doc file as per selected paper format. Also emails it to other colleges. After this question paper is converted to pdf file and emailed to colleges on button click.

### 1.1 WORK CARRIED OUT:

Automatic Question Paper Generator is special software which is useful to schools, Institutes, publishers and test

paper setters who want to have a huge database of questions and generate test papers frequently with ease. It mainly deals with the gathering, sorting and administration of a large amount of questions about different levels of toughness from scientific as well as non-scientific subjects related to various classes. This paper introduces the usage of shuffling algorithm in Automatic Generator Question Paper System (GQS) to overcome the mentioned problem. The main part of the shuffling algorithms is to provide randomization technique in question paper generation system, thus different sets of question could be generated without repetition and duplication.

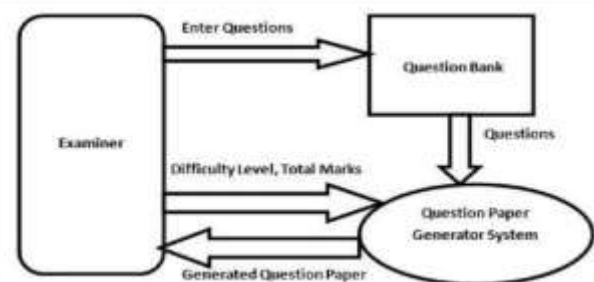


Fig: Automatic Question Paper Generator

## 2. Literature Review:-

To overcome the existing system anomalies, this question paper generator system is developed. In this system we present a smart question paper generating system specifically for any University. It is made to allow university to generate question papers with random but even questions to cover most chapters of subject with difficulty level within seconds and mail them to colleges instantly. In our system we allow administrator to input a set of questions and respective answers for option ticking. We also allow admin to provide weight age and complexity for each of these questions. After this the questions are stored in database along with their weight age. Now on question paper generating time the admin just has to select the percentage of difficulty. On this selection the system selects questions randomly in a way that their weight age makes up for 100 marks and according to difficulty that admin chooses the questions are chosen based on their complexity level. We will also add optional questions so that the generated question paper will be of total 120 marks out of which optional questions will make up 20 marks. The proposed system will also generate question papers of both Unit Tests that are conducted at the college level. These question papers will be total of 32

marks each with optional questions i.e. 20 marks per paper. The questions are also added for various difficulty levels so that as soon admin chooses the type of paper difficulty (Easy, medium, difficult) the system automatically generates paper, prepares doc file as per selected paper format. Also emails it to other colleges. After this question paper is converted to .pdf file and emailed to colleges on button click.

### 2.1 Problem Statement:-

“To overcome the existing system anomalies like, the question paper is set by an paper setter to early before an exam so that there are maximum chances of paper leakage. So, this question paper generator system is developed. In this system we present a smart question paper generating system specifically for any University.”

### 3. Conclusion:

Our future effort is to employee different types of randomization as well as addition to Question Generation, we can enhance the same software by making provision to produce question from online test. This system can emphasize more percentage of difficulty when question papers are referred from this repository.

### References:

- 1) Suraj Kanya, Madhuri Sachdeva, Navdeep Dhaliwal and Sonit Singh, Fuzzy Logic Based Intelligent Question Paper Generator IEEE International Advance Computing Conference (IACC), 2014.
- 2) Automated Question Paper Generation System Rohan Bhirangi, Smita Bhoir Computer Engineering Department, Ramrao Adik Institute of Technology Navi Mumbai, Maharashtra, India April 2016 ISSN: 2278-9359 (Volume-5, Issue-4)
- 3) <https://stackoverflow.com/>
- 4) <https://www.w3schools.com/>

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