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Randomly Generate Question Paper

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ABSTRACT

Now a day's the major problems faced in many colleges and universities when they send exam paper to college then before the exam time it gets leaked in many colleges and still that is very difficult to find from where actually the paper has been leak. And when the question paper is leaked in one college then same question paper will be spread throughout all colleges. The system aims to give information about design and implementation of the automatic question paper generation system for educational organizations. At first the system will input questions and by filtering that as unique using natural language processing and store entire possible question in its database which is the required dataset to generate the question paper as per syllabus of particular subject .The dataset contains the possible question with respect to marks to each question this dataset is may be formed by manually entering the question to the system to generate the dataset or question bank to generate the required question paper as per required pattern. The system will not repeat any question in the generated question paper. It mainly deals with the gathering, sorting and administration of a large amount of questions and deliver it to the organization with full of security. When the system delivers the paper to college, the paper will be encrypted with the help of blowfish algorithm and for decrypting it there is need of key that will send by the system after request.

Keywords : Blowfish Algorithm, MySQL

I. INTRODUCTION

Safety and credibility are highly notified in all examination systems. With the onset of computer based technology there have been evolutionary changes over the time in many areas of our technical environment. Most strangely e-education as well e-learning is highly affected. There is a shift from manual to automated systems for different aspects of educations system.

Making assignment sheet, daily practice and weekly tests, test series, online test, etc. is a repetitive and time consuming task which involve both teachers as well as computer operators. Using this software the same action can be accomplished in few minutes and even in absence of operators. The finest part of the software is that it takes intelligent decisions to eliminate repeated questions and check even for the alternatives questions. Not only this, for formation of a question paper it is also possible to restrict the search to questions which have not used at all or have been used less than specified number of times. This makes it greatly benefits as the headache of manually avoiding repetition at the time of feeding is totally eradicated. These automated system provide cost saving and time-efficient solution.

II. System Flow

Above model we come to know that we need an integrated Question Paper Generation System with improvements in terms of speed, efficiency, controlled access to the resources, randomization of questions and security. Architecture allows the tasks to be divided among a number of users depending upon their roles. A central administrator will have full authority over all tasks and users. Interface are provide using Java and MySQL database is used to store questions and related data. Syllabus and pattern of any course is considered for all questions and the subsequent generated papers. Also, system will be developed as per to any educational institute and course schemes. Different types of Secure Algorithms are used to store admin and user passwords to enhance security level. The shuffling algorithm uses a basic randomization algorithm with a flag system used to mark selected particular questions. This prevents the questions from being repeated in subsequent examination papers.

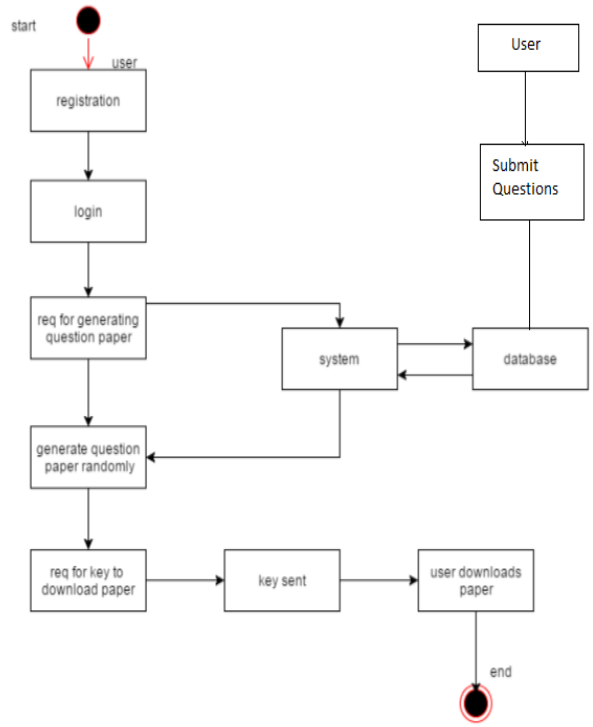

Fig -1: system flow

2.1 General Working

Fig-1 shows the process of question paper generation is first the incondite questions are stored in database. Here the first user can login using his credentials and after successful login, various systems are available to the user depending on his/her role in the hierarchy. For e.g. the admin has data entry options as well as paper generations option. However, the paper generator can only access the paper generation option.

A data entry user can enter various data and customize the system according to the organization and set of rules. Data will be as per courses, syllabus, patterns and questions can be entered and are stored accordingly in the database. The Paper Generator can then generate the question paper for any course, examination and year. These question papers are totally unbiased and Also, it is ensured that questions are not repeated in same question papers after that the user questions are separated with the help of sparse representation algorithm and duplicate or repetition of questions are removed using the natural language processing. natural language processing in which in first of all analysis the data meaning wise, properly understand it and check whether the data is duplicate or not, if the data is repeated then remove that data. after separation of data the user will create the different set of questions. and these set of questions are send to the college system as per the scheduling or date wise with the help of fair queuing algorithm.

III. System Architecture

With development in our architectural view of system, the work starts with the university admin who will add question in the bank from where the filtered question will be added to the database and there after the work of college will start. In the question the college teacher also can add the question. After completion of adding all question the college works get start now college have request for

the paper and after requesting by collage the made request will be added to system and then system admin will accept request and question paper get generated for the requested college and then college can download the question paper from their own system login the paper will available there for downloading and after downloading the paper there is need of key to decrypt the question paper so, for key the college user must have to check their mail id and they will get key from there. Entering by paper can be decrypted and paper will available to college in simple text format.

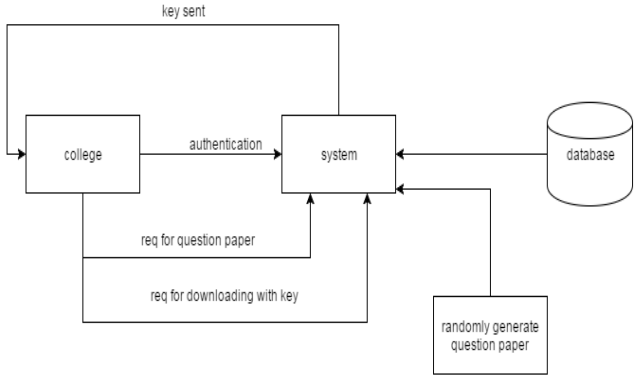

Fig -2: System Architecture

IV. System Requirement

4.1 Hardware resource required

System	:	Pentium IV 2.4 GHz.
Hard Disk	:	40 GB.
Floppy Drive	:	1.44 Mb.
Monitor	:	15 VGA Colour.
Mouse	:	Logitech.
Ram	:	512 Mb.

4.2 Software resource required

Operating system	:	Windows XP/7
Implementation	:	Java
Front End	:	JSP
IDE	:	eclipse
Database	:	MySQL 5.1/XAMPP

V. Advantages

1.Save the wastage of time.

By using the system, it saves very much time to create paper manually and search for questions. After creating paper, it is very tedious job to send paper to college and again time process but this system reduces the job of sending paper and send that paper automatically.

2. Reduce the manual efforts.

Generating question paper require very much manual work but in this system, it just take input question from user and generate question paper automatically and lead to the problem of large manual work.

3. Reduce the paper work.

While creating papers it needs lot of paper work for checking which question should be there in paper but using this system there is no need to choose questions system will randomly get question and add that question to the question paper.

5.1 Features and Benefits

a) Provide simple interface which enhances the ease of updating data.

b) Generates and prepares the Question Paper in seconds.

c) Question Type is based on
-Knowledge-based
-Logic-based
-Memory-based
-Application-based.

d) Questions can be easily edited.

VI. ACKNOWLEDGEMENT

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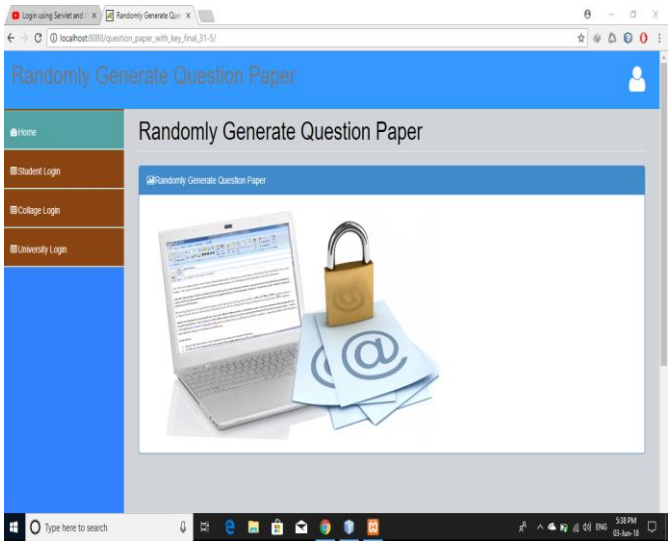
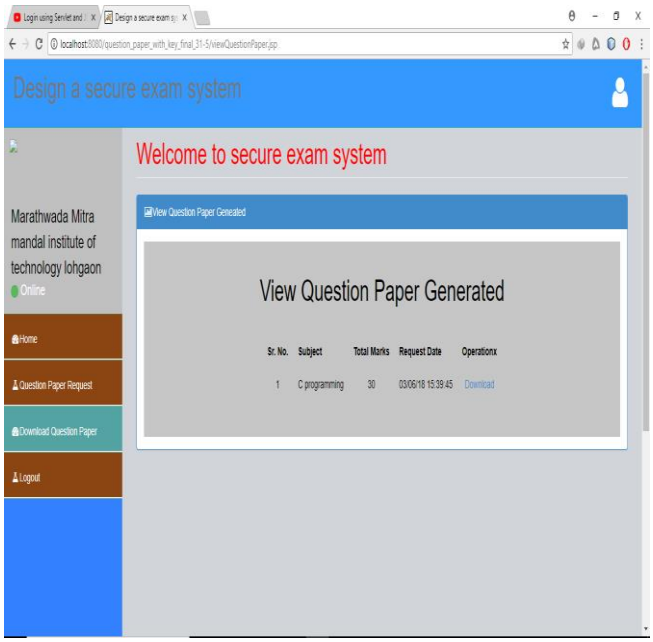
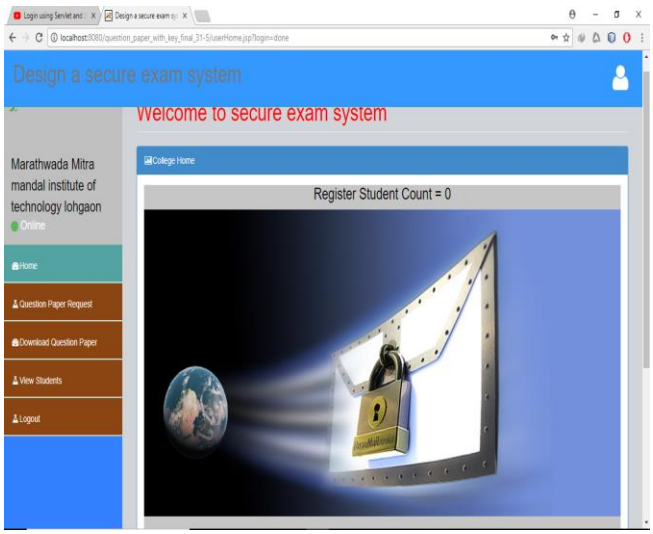
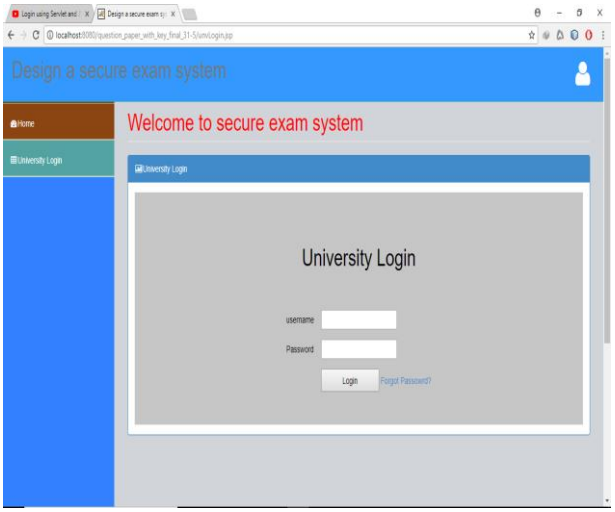
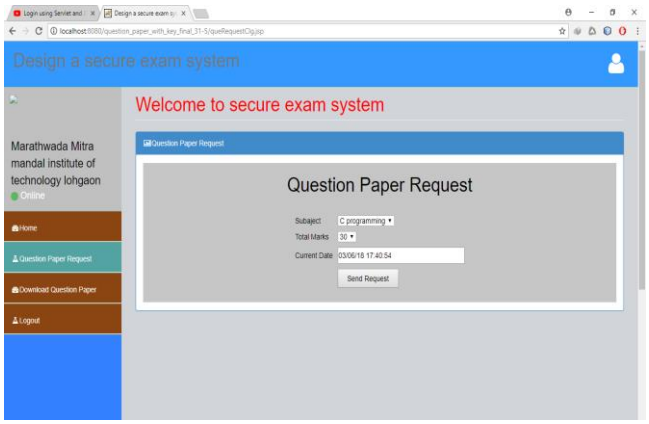
VII. RESULTS AND DISCUSSION

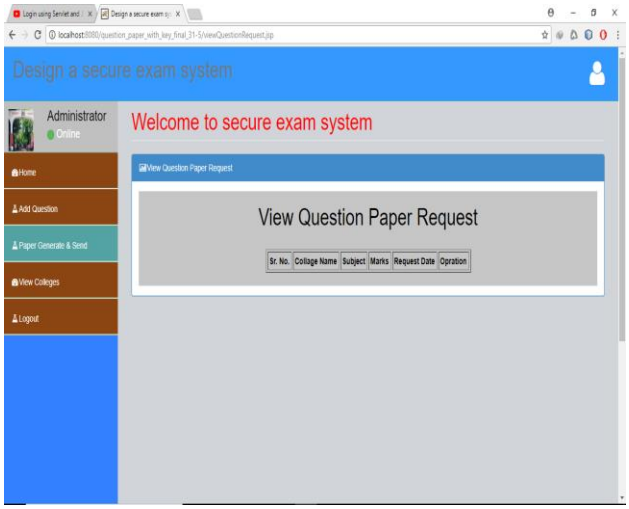


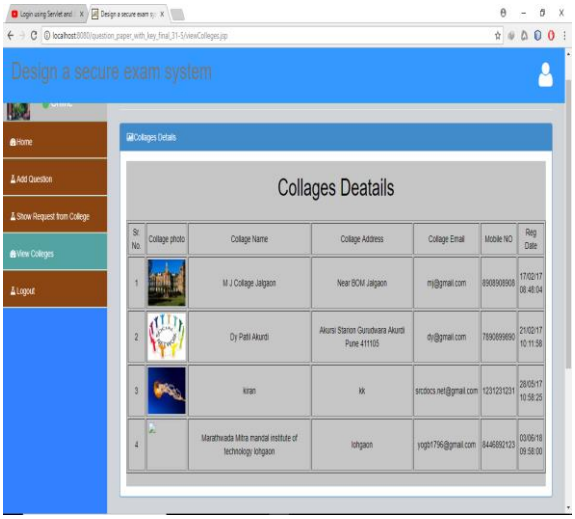












VIII. CONCLUSIONS

In this paper, an automated model for Question Paper Generation is proposed which is implemented as a real-time application. The proposed work describes an automated system that progresses from the traditional method of paper generation of an automated paper, which also providing controlled access to the resources.

Our system using an efficient algorithm which is totally randomized and avoids repetition of questions is consequent question papers, making it impossible to derive any pattern in the papers. We also distinguish between administrators and subordinates by their tasks. Therefore, also the resultant automated system for Question Paper Generation provides improvement better than existing system.

IX. REFERENCES

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