

ABSTRACT

The need of automation has become a necessity in our everyday life and in business sector. Now the computers and technology have penetrated the industry, schools and colleges. Automation has always been looked upon as a magic formula to improve the quality of processes and their execution time. For that purpose we have decided to develop such a system which provides automation in simple way. We are developing such a project in which subjective as well as objective answers are also submitted while attempting online examination. In this we will develop such a system in which anyone interested to check his/her knowledge can answer questions just by speaking and our system will efficiently judge those answers and grade that person accordingly. Many squandering features of this project include various phenomenon's of an automation. In our project there is no loss of marks of students having poor handwriting, there will be full focus on talent.

KEYWORDS: Feature extraction, Reverse circle cipher, key generation.

INTRODUCTION

In our earlier examination system, Examination was pen paper based where students need to answer to the questions asked by writing it down, which led to wastage of countless papers. To abate the limitations of former system online examination system came into perseverance, where students were requested to answer the question by making the use of keyboard or keypad and thereby typing the answers into the text box provided, but even this system was lacking some performance measures issues. In our proposed system where voice will act as the input for the system and thereby converting voice into strings evaluating student's answers resourcefully. The proposed system provides advance improvement over the previous ones by excluding the work done of students to even type those answers and eventually our exclusive system has fruitful contribution towards a 'Go-Green' environment by limiting the usage of countless papers.

There are so many online examination systems have been developed till today's date having different methodologies and concepts. Currently existing examination system lacks the security concerns, that the data can be easily modified or altered and is vulnerable by an un-authorized user. The desired level of security of data can be achieved by the means of some algorithms that we are going to implement in our proposed system. The phenomenon of generating keys in cryptography is termed as key generation. In this concept a key is used to encrypt and decrypt data whatever is being encrypted or decrypted. Key generation algorithms are used by modern cryptographic systems such as public-key algorithms and symmetric-key algorithms. Key generation is most famous computer security phenomenon. Reverse circle cipher assist to implement encryption and decryption process. It is a concept termed as circular substitution with reversal transposition. This algorithm does not manipulate the orientation of view of bytes neither work in the bit level, rather it changes directly onto the ASCII/UTF values of the given text. The phenomenon in which reduction of random variables is taken under the consideration with the help of dimensionality reduction is termed as feature extraction. Dimensionality reduction approach uses two methods such

as feature selection and feature transformation for getting high quality data which consists most efficient features that can be irrelevant, misleading which improves the search space size resulting to process the data.

MATERIALS AND METHODS

Figure:

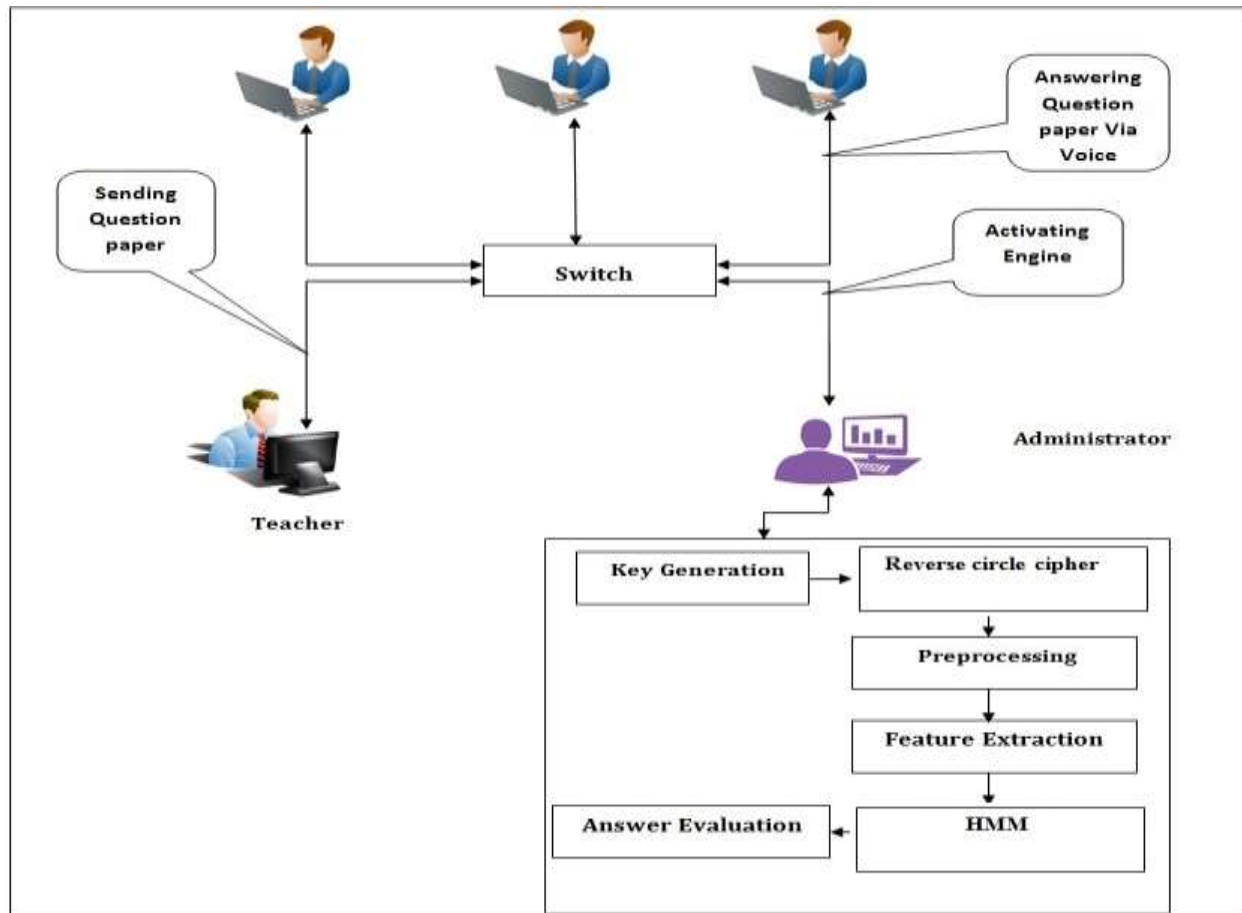


Fig. Proposed System Overview

By observing the system overview, it consists of so many squandering and important columns of our project. The proposed system has various extravagant features. In this system Admin is accountable for handling the system and for starting these type of examinations. Looking over to the next block which is teacher. The most important block in the system which will login into system by using his username and password and then question paper will generated. Answers of each and every question papers will be store in database. After the start of an examination total importance goes to the students. Student will login to the system by using his credentials. The date and time by which student is login to our system is used by key generation algorithm to generate the unique keys.

Switching over to the main functioning of our system the answers are in the form of voice and using some predefined API'S of JAVA like (SonAPI) will converts these answers into strings and that answers will check by the Message Digester (MD5) algorithm on the basis of Feature extraction which helps to generate probabilities for HMM and calculates the results depending on that probabilities. These results will be mailed to respective students after the end of examination.

RESULTS AND DISCUSSION

After using various methodologies and concern algorithms the proposed system is helpful for conducting an Online Examination successfully. This system converts voice into strings and calculates the answer based on the probabilities defined by Message Digester (MD5) algorithm.

CONCLUSION

The defined system is useful for those students who have less typing speed. In this system we will take voice as input through mike or earphones and then attain whole exam on the basis of voice and result will be mailed to respective students. This work needs tremendous potential to implement it on a large scale. Online Examination system using voice recognition system is conducive to applied online exams cultivating a sufficient number of marks to high-quality talents.

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REFERENCES

1. Gurpreet S. Lehal, Vishal Gupta "A survey of Text Mining Techniques and Applications" Journal of Emerging Technologies in Web Intelligence, vol. 1, no, 1, august 2009.
2. M. Vinayababu, Suresh M B, and Mahesh T R, "Text Mining: Advancements, challenges and Future Directions" International Journal of Reviews in Computing 2009-2010.
3. Bo. Hang, "The Design and Implementation of online Examination System", in IEEE International Symposium on computer science and Society, Kota Kibalu, pp.227-230, July 2011.
4. Zhou Fang, Wang Xiuing, "The Online Testing System With Explain Functions As students Answer Mistake, "in IEEE International Symposium on IT in Medicine and Education, cuangzhou vol 2, pp. 456-460, December 2011.
5. Huang jia, "Based on the fuzzy synthesis evaluation system for university teachers Research to the Sichuan music college teacher performance evaluation as an example," A Master Degree Thesis 2013(6).