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## VIRTUAL EXAM PAPER CORRECTION USING QR-CODE

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### ABSTRACT:

Since the academic and resources shifting to digital arena, there is a need for digitally powered exam management. The main objective of this web based online examination system is to efficiently evaluate the student thoroughly through a fully automated system that not only saves a lot of time but also gives fast and accurate results.

Our project proposes a QR Code based examination system to automate this process. This work proposes use of two-dimensional (2D) barcodes, which have the capability of storing data, to assist in reducing the action of hardcopy for exams. A QR code is a type of matrix barcode designed for the automotive industry. A barcode is a machine-readable optical label that contains information about the item to which it is attached. In practice, QR codes often contain data for a locator, identifier, or tracker that points to a website or application. A QR code uses four standardized encoding modes (numeric, alphanumeric, byte/binary, and kanji) to store data efficiently; extensions may also be used.

By combining existing examinations system with newer technologies as mentioned QR code we can achieve faster and more accurate results.

### INTRODUCTION:

The recent interest in the use of visual tags in everyday life is a natural consequence of the technological advances found in modern mobile phones. The QR code is a matrix consisting of an array of nominally square modules arranged in an overall square pattern, including a unique pattern located at three corners of the symbol and intended to assist in easy location of its position, size and inclination. A wide range of sizes of symbols is provided together with four levels of error correction. Module dimensions are user specified to enable symbol production by a wide variety of techniques. There are two sections in this system. In the encoding section conversion of input data to a QR Code symbol takes place. In this the data analysis and encoding is done then after Error correction coding the final message is structured. Following the Module placements in matrix with masking.

### LITERATURE SURVEY:

As part of our research analysis on "Virtual exam paper correction", we thoroughly verified many journals, conferences, white papers, web sources to get the extreme valid content about QR code in exams and its characteristics. In this section we present the literature review on Virtual exam

paper correction with the help of its relevant former research publications. Each notable research activities in the area of QRcode are explored in brief with author details. This information helps the naïve research scholars to understand about the evaluation of exam paper correction and the improvements it had since beginning.

**SYSTEM ARCHITECTURE:**

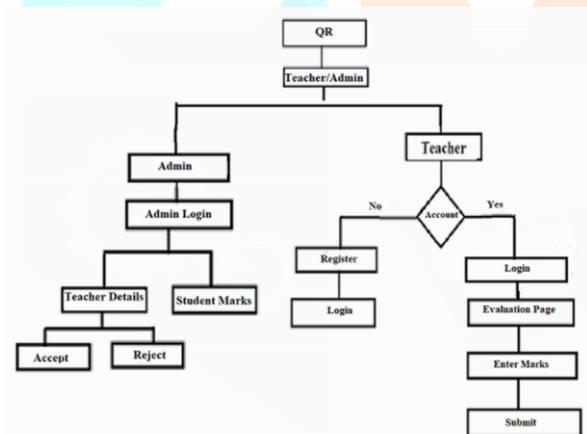
We introduce a web application for the examination correction using the QR code. Every answer sheet is assigned a unique qr code. After the completion of the examination, each student has to scan their respective sheets. These scanned copies are updated to the respective qr codes and added to the database. Now when the examiner has to correct the answer scripts, they can simply scan the qr code and the entire answer script will appear. The web application also helps ease the process of marks allocation and summation.

generate QR code of exam paper and after client (student) gives exam the admin is responsible to scan the copies and update the data in the database.

A QR code (abbreviated from Quick Response code) is a type of matrix barcode (or two-dimensional code) first designed for the automotive industry. More recently, the system has become popular outside of the industry due to its fast readability and comparatively large storage capacity. The QR code consists of black modules arranged in a square pattern on a white background

**RESULT:**

After correction answer scripts by evaluator marks will be submitted to admin and all marks will be stored in the database.



**Fig:2:**Registration form



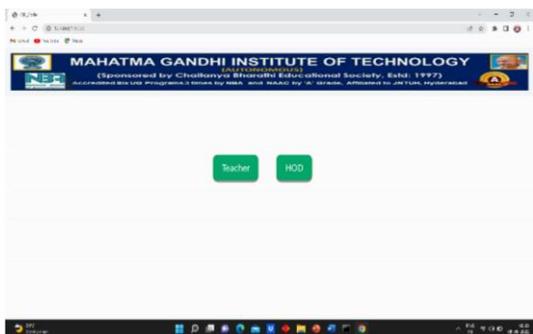
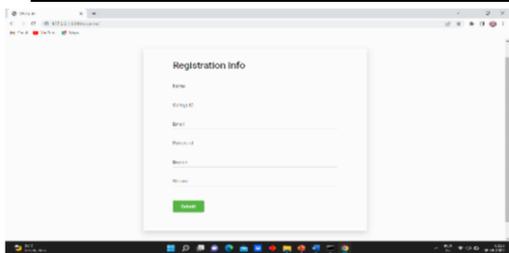
**Fig:1:**QR-code -Scan to redirect to website

This project proposes a QR Code based examination system to automate the exam process. Basically this work suggests client server architecture where in server will be used to

Camera Device in Mobile Phones”& it will be useful for automated examination paper Scan Evaluations process. The strength of our the system resides in encoding and decoding. QR-code using desktop camera through link <https://qrcodescan.in/>.After scanning QR particular faculty will get login page then faculty who have their ID can login otherwise faculty need to be register for correction.

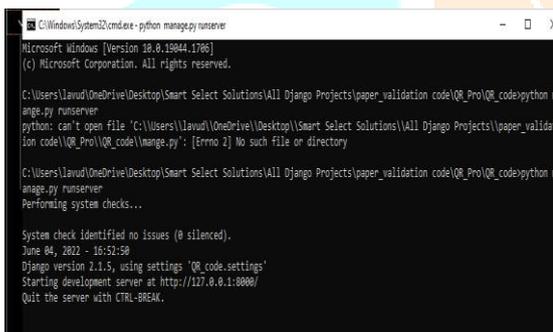
**CONCLUSION:**

We are going to develop a Virtual Exam Paper Correction for “Barcode Reader Using



**Fig:3:Login page**

Also, implementing the client server architecture for our major application automate examination process. We have provided authentication for the server. In this paper we generates the QR-code using student information and then student need to recognize as to read the code using their

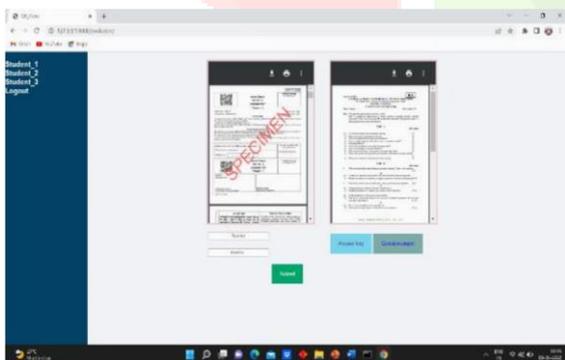


**Fig:4:Output link**

mobile phone, after generate the QR code using transfer information. The client’s mobile phone capture the code . Finally, student will see actual objectivetype of questions of generated QR code on the

screen. These days it is required to keep up with the latest technologies, especially in the field of education. Educational institutions

have been looking for ways to enhance the educational process using the latest technologies. Looking at the existing situation, we have thought of using the mobile technology to efficiently benefit



**Fig:5:Output**

from the complete assigned time assigned to a lecture. Time taken by instructors to take may be viewed sometimes as a waste of the lecture time, especially when classes are

big. For that, we have instructor need not do anything extra during the class beyond presenting the slides of the subject to be taught to the students. The proposed system allows fraud detection based on the GPS locations as well as the facial images taken for each

Teacher This paper has presented system that

utilizes the use of QR code system. The proposed system stores all data repository in a database in a secure and protected database

management systems (DBMS) namely the MySQL. In future, we will provide an efficient algorithm to be developed as a networked version without need to install the open source scanning application scanner

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