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# Smart Campus System

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**ABSTRACT:** The working of the system involves the QR code and it is unique QR code for each teacher. The QR code contains information about the teacher, such as the class code and the date and time of the class. The teacher scans the QR code using their mobile devices, and the attendance is marked automatically. The teacher will present or not in the classroom. Analysis using a QR code is a digital technology that aims to improve the process of monitoring teacher in the classroom. This system uses QR codes, which are unique barcodes, as a means of identification for teachers. This paper proposes a system that is based on a QR code, which can be useful for teachers.

## I. INTRODUCTION

Imagine a campus where every aspect of learning environment is ensuring with smart technology, transforming traditional classrooms into interactive, different spaces. One such innovation that holds important aspect of smart campus system that can accurately determine whether teachers are present in their classrooms or not. The smart campus system utilizes a combination of QR code to track the presence of teachers in classrooms.

In the context of detecting whether teachers will present in the classroom using QR codes, it is important to note that QR code are primarily used various purposes in education, including accessing learning experiences QR codes have been widely used in education to enhance the learning materials also, they can be used by students to access instructional resources, such as video, website or documents by scanning the QR code. There is no direct evidence to track the teacher presence in the classroom. The presence of teacher will be tracking is typically done through traditional methods, such as manual registers or digital system like scanning to the biometric machine.

This has been useful in improving the silence of the students in the classroom. Using QR codes to track teacher presence in the classrooms is an analytical approach that is technology for attendance monitoring. QR codes offer a convenient and efficient alternative. By using QR code, principal can track the presence of teachers in the classroom. QR code attendance tracking involves generating unique QR codes assigned to each teacher, their presence can be easily recorded means stored and tracked.

## II. LITERATURE SURVEY

A Software which utilizes QR code scanner to record and maintain the presence of the teachers is described in paper. A QR code is a machine-readable representation of information in a visual format. A QR code consists of a series of parallel, adjacent bars and spaces which is read by a QR code scanner.

Each teacher will be assigned a unique QR code ID which identifies the teacher and displays the presence of teachers in their classrooms. Administrator will only have access to the system with their respective login ID's and passwords.

It is an application that is developed for the teachers to access for monitoring the students for their misbehaviors in classroom. This system can be accessed by the teachers to obtain the record for which each individual is assigned a login ID and a password.

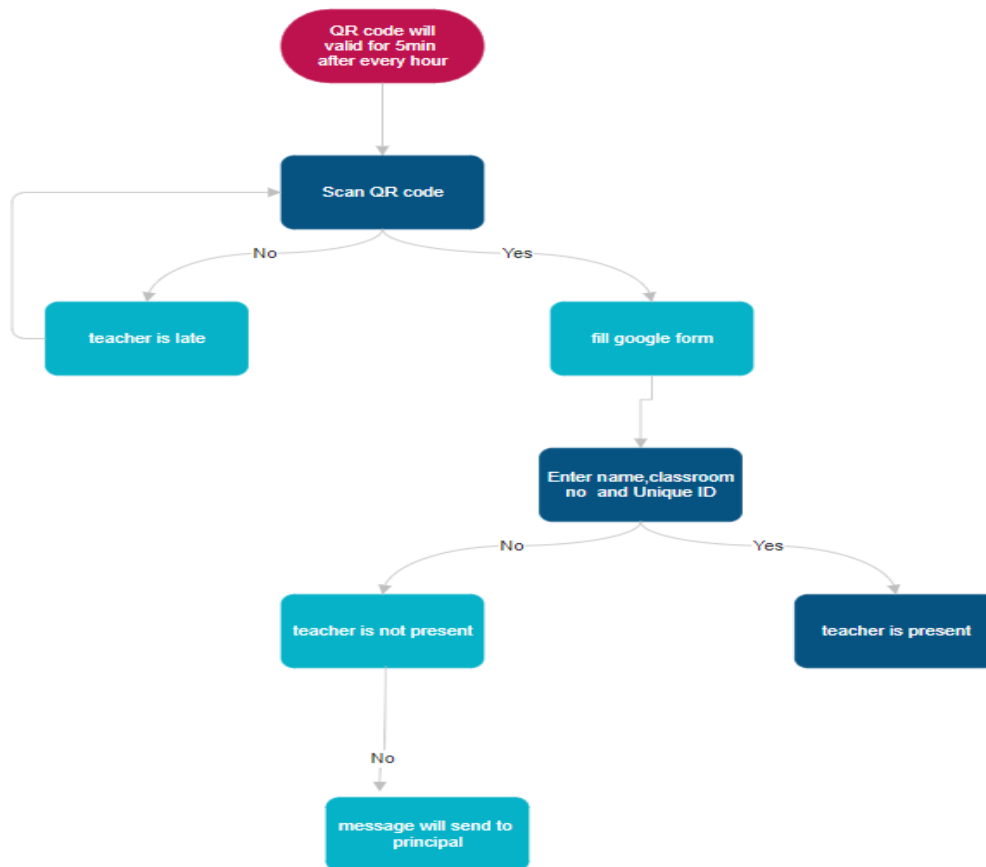
For this the teacher, must be registered with the system admin for access. Presence of Teacher Information Management System realization including establishment and maintenance of the database and front-end web development & describes the system functional and architecture design, and emphasizes the system's functionality, database design and functional modules, etc.

Fully functional, flexible and convenient web and friendly interface provide a good guarantee for student information management.

### III. PROPOSED DESIGN

The QR code is used to developed Smart Campus System. Individual needs to scan unique QR code by using camera, then information is stored in the database. This has used the adaptation from the prototype model. This prototype model has five phases, it is namely planning, analysis, design, prototype development and testing. This model is suitable for the development of this product prototype because it can give the real picture about the product and the operational of the product.

- The steps involved in flow of the proposed system are given below:
  1. Generating QR code.
  2. Creating google form.
  3. Create spreadsheet.
  4. Attach spreadsheet to API.



#### **IV. RESULT AND DISCUSSION**

Teacher attendance is a significant and most important factor in the educational system, and it can have an impact on various aspects, including student achievements, student attendance and overall everything.

Studies have shown that teacher absence can be a very sensible problem that it can affect student's career, particularly in rural areas of developing countries.

Implementing measures to track and improve teacher attendance can lead to a decline in absenteeism rates.

Keeping accurate attendance is important for administrative purposes and for ensuring the safety and accountability of students.

The QR code example which teachers will scan is: -





Then one form will appear as below:-

## Login

Email here..

\* Indicates required question

**Faculty name \***

Your answer

**Faculty ID \***

Your answer

Submit
Clear form

The record till now are as follow: -

Timestamp	Faculty name	Faculty ID	Message	Final message	Send WA Message	Phone no
03/01/2024 19:19:55	S. S. Patil	101	faculty is Absent	312 class no faculty is absent &D&"	<a href="#">send</a>	7276709425
04/01/2024 21:49:45	M. N. Patil	104	faculty is present	312 class no faculty is absent &D&"	<a href="#">send</a>	7276709425
27/01/2024 21:57:01	M. M. Mohite	103	faculty is Absent	312 class no faculty is absent &D&"	<a href="#">send</a>	7276709425
27/01/2024 22:13:59	V.S. Patil	105	faculty is present	312 class no faculty is absent &D&"	<a href="#">send</a>	7276709425

## **V. CONCLUSIONS AND FUTURE WORKS**

In conclusion, a teacher attendance system can vary depending on the specific goals and context of the system. A teacher attendance system plays a vital role in ensuring the presence of teachers in institutions.

Continuous improvement and simplicity of the teacher attendance system should be a priority. This can involve integrated feedback from teachers and administrators to address any issues or limitations of the system and also can be used for employees in offices.

It can enhance the functionality and value of the teacher attendance system. For example, integrating it with student information systems or learning management systems can provide a more extensive view of attendance and performance.

This system will be very easy and useful and also can enhance its features and modify it in future. It is important to note that the specific conclusion and future work of a teacher attendance system may vary depending on the educational context and the goals of the system.

## **REFERENCES**

Here are some documents we read about: -

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