



Computerized Exam Hall Appearance Supervision

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Abstract

As we all know, life moves forward day by day and technology moves forward year by year. Every industry uses technology to improve production efficiency. Smartphone are one of the newest and most widespread technologies. It is the most used and preferred device among students. Furthermore, there is an urgent need to introduce learning through smartphone as they become UNDESIRABLE. The study assesses the student's ability to write effectively in the exam room. The proposed system improves students' concentration and saves time during exams. The main objective of higher education is to equip students with the knowledge and skills needed to successfully contribute to the process of national development. This preparation includes regular assessment and evaluation in the form of exams to assess the level of knowledge and skills of the pupils. Most of the universities, both graduate and undergraduate in India still use manual exams. These tests are high-stakes because student scores are used in many ways. One of the key elements of the examination process is therefore the distribution of students, the supervision of the examination room and, above all, the record of their attendance in relation to the room that was assigned to them. By leveraging the web, Android app and IoT devices, we build an automated process system to meet all these criteria.

Key Words: QR CODE, Scan, Attendance, Old system, Monitoring.

Introduction

In today's daily life, there are many common technology and safety issues for several applications, and the application of automatic control is important in many applications. As a result, we assigned this research project to the college in hopes of solving the problem of examination tracking. There are many methods for monitoring system applications in today's schools and colleges. The traditional method of using paper and pen, which seems inefficient and boring, is one of the methods used and the time of both the lecturer and the students in the exam. The proposed monitoring system in this project is built on a QR

code. Scanning the QR code with a mobile device and transferring it to the application for further processing. The system offers long life, ease of use and data protection. The main idea behind the intelligent monitoring system is to collect information about students and examination halls in any college. This document intends to digitize it using QR codes and Android studio. Android Studio was used to code the QR scanner. This project will be more successful if student information like their registration number is generated using QR generator. The information contained in the QR code is then stuck on your ID card instead of the barcode. An android app created by android studio will scan the QR code on your ID card. After scanning the QR code, the individual's exam hall plan will be displayed, including information such as the time and date of the exam, as well as the row and column numbers that define the individual's seating arrangement.

The primary objective of the research is to report on an automated student tracking system that can be used in college and university examinations. This article is about QR code based application development. This system allows us to speed up the process of monitoring and allocating rooms during examinations, saving students time and avoiding confusion and anxiety. This article proposes a QR code based system that students can use at the beginning of each exam. Students will need to scan a code to confirm their rooms. The paper explains the high-level implementation details of the proposed system. The device will then act as a scanner and scan each student's ID card one by one to confirm and verify their presence. The app manager will act as a sensor by scanning QR codes on students' phones. This design was chosen for economy and simplicity. The main advantage of the system is that it is more accurate and faster.

Literature Survey

The purpose of this research is to learn about the current issue tracking system, its advantages and disadvantages, and also to design a scheme that benefits from the advantages while overcoming the disadvantages. This quality assurance standard is essential in software development because it allows developers and testers to track their progress while increasing customer satisfaction.

Mustafa Yaci and Menderes nal [5] The design and implementation of an adaptive online exam system is accepted in this paper. Adaptive exam systems instantly and collaboratively create different sets of questions for each student. Instead of trying to benchmark their progress, measure their ability in the discipline immediately and effectively. The adaptive exam system prevents the student from being distracted and demotivated by questions that are much easier than their ability level. Furthermore, the negative effects on self-esteem and morale of questions that require more knowledge than student ability are overlooked. They can notice student competencies more effectively because the questions are focused, allowing them to make clear inferences about student performance. The advantages of the system include less overall calculation time and more flexibility in the exam management system. In particular, the self-sufficiency of the system in terms of the organization of the process of measurement,

repetition and evaluation enables its use in individual education. This system can help to more successfully assess students' skills and knowledge in situations such as online courses where some barriers are common.

Ruth Raitman et al.[6] This article examines the role of security in the context of collaborative e-learning, with particular emphasis on the social aspects of security and the meaning of identity. It also presents a case study completed in November 2004 to test the security logic encountered by students when using a wiki platform for online collaboration in a tertiary education environment. Websites that are fully editable, easily accessible, and do not require contributors (in this case, students) software empowerment. The difference between the two wiki studies will be highlighted.

In cases such as distance learning, where we often encounter some problems, this system can help determine students' competencies more effectively. One used user login, while the other maintained anonymity throughout the study. The results account for independent participation and the evolution of work requirements over time, which determines the insufficient reliability of administrative identification.

MohdAlwi and NajwaHayaatiIp-ShingFan[7] E learning is a new learning method that works through the Internet. The Internet has become a haven for a new set of illegal activities, which threatens the e-learning environment. This essay examines the benefits and growth of e-learning. This article discusses the required security features in e-learning. It also describes the current situation and existing research in the field of e-learning security. It is recommended that information security management be involved in the planning. secure e-learning environment.

Wu He[8]. This document describes an online education survey designed to assess online education providers' awareness of potential security threats and mitigation measures. In their studies, the authors use 2 techniques: blog mining and traditional literature searches. According to the findings, while scholars also recognized various security barriers and proposed solutions to improve security risks in online education, bloggers did not talk about security in online education very often. The differences in survey results produced by these two methods show that online education resources and professionals do not prioritize security. The paper also considers a one-time authentication solution that ensures the security of online assessments and balances security and usability

Problem Statement:

As the students begin their exams, the lecturer goes around each one individually to check their ID and signature details, causing confusion, tension, delays in answering questions and anxiety among the students. The classification scheme in this idea is based on a QR code that is also shown to students during or before each lecture. Students must scan a code to verify their rooms and information. The paper explains the high-level implementation details of the proposed system. It also discusses how the system

verifies student identities to prevent fraudulent registration. In today's world, science and technology change everything, and make human life easier than ever before.

Objectives:

Use a mobile device during maintenance.

- Use open source software to reduce development and maintenance costs.
- Attendance reports should provide end users with maximum flexibility in manipulating the collected attendance data.
- Checking is faster and more accurate and teachers can easily see who is present or not.

RESEARCH METHOD

It is hard to find a student today who has never used technology. Technology has evolved into one of the most important arteries of modern civilization. Although most tech users use it for fun and communication with friends, there are many useful and practical aspects that they may not know about. During the exam, students will receive proof of their exam location. The problem was the investigation. This investigation will show how technology makes it easier for students to complete their daily tasks. The focus of this research will be focused on the field of study and also on university students as a result of solving the issue of test attendance. The inefficient and time-consuming traditional method of just using paper and pen wastes the lecturer's time and distracts the student's ideas during the exam.

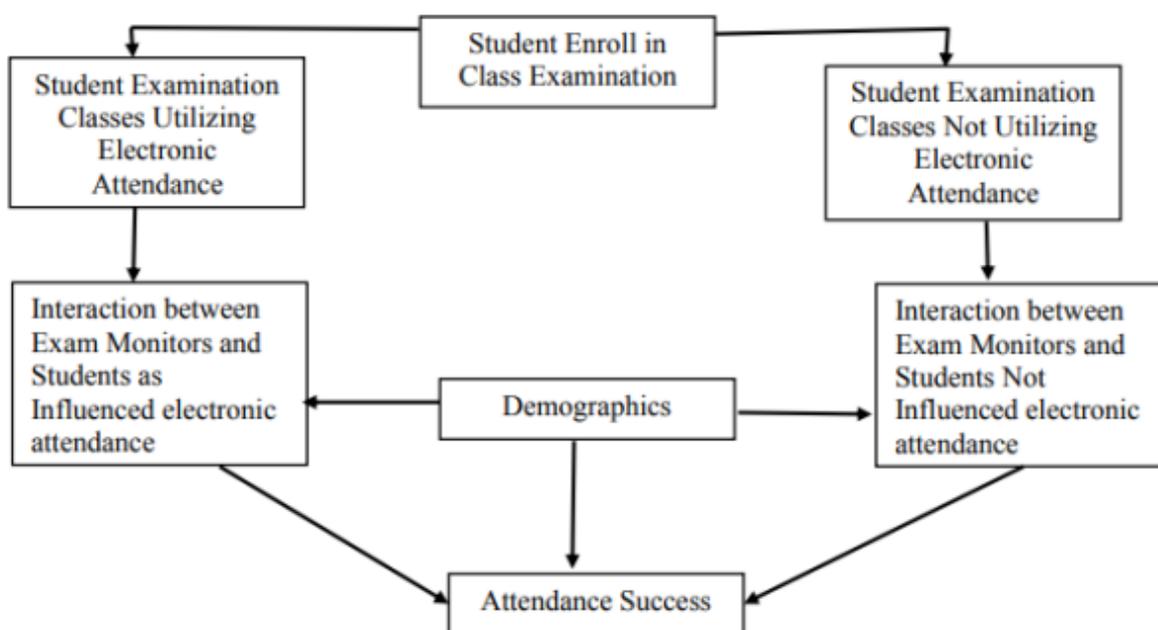


Figure 1. Conceptual Framework

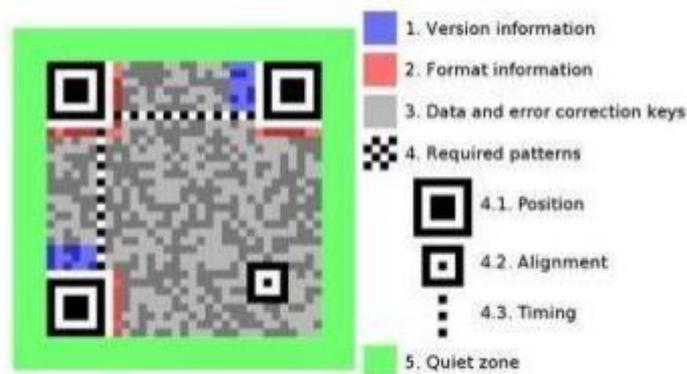


Figure 2. QR Code Structure

Methods and Procedures

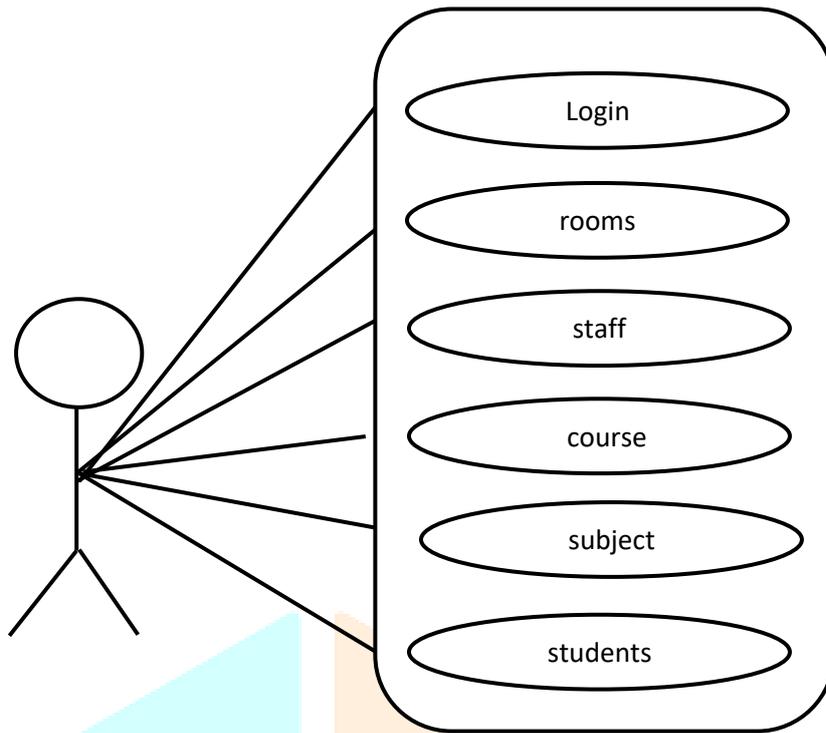
This investigation will show how technology makes it easier for students to complete their daily tasks. The focus of this research will be focused on the field of study and also on university students as a result of solving the issue of test attendance. The inefficient and time-consuming traditional method of just using paper and pen wastes the lecturer's time and distracts the student's ideas during the exam.

The proposed system will be useful. This study will show how technology makes it easier for students to complete their daily tasks. From the point of view of solving the problem of test attendance, the focus of this research will be on the studied field and for university students. The traditional way of using paper and pen, which is inefficient and tedious, wastes the lecturer's time and distracts the student's ideas during the exam.

In connection with the above subject, we are developing a system for allocating students and invigilators to exam halls through the college's web and Android application while allocating students to exams in the most efficient way possible, by generating a QR code on the hall ticket and tracking student attendance using a QR code. Attendance students will be securely stored in a centralized database once recorded in the system according to their room assignment. The Android app helped room guards to quickly register and receive their allotment.

The automated examination system was designed to automate the traditional method of examination organization in educational institutions, such as generating reports based on the type and time of the examination, allocating rooms and withdrawing student attendance by scanning the QR code on the student's hall ticket.

Use case diagram



RESULT

EXAMINATION CENTER [Logout]

- Class Rooms
- Course Master
- Subject Master
- Staff Master
- Student Master
- TimeTable
- Staff Assign
- Hall Ticket

Add Rooms

Room No

Room Capacity

	ID	RoomNo	Capacity
Select	25	1	10
Select	26	2	13

Name	Student ID	Course	Semister	QR Code
RASH	111	MBA	1st Sem	
PUTTA	121	MCA	1st Sem	
SID	123	MSC	1st Sem	

Result

the stages of output are shown in the results. The end result is shown below.

student admission ticket

displays the student hall-ticket Rather than a barcode, it has a QR code.

QR codes contain an individual's registration number.

→ Where scanning

The Android app scans the QR code on given hall ticket.

→ After scanning

- Correct result: After scanning with an Android app, the outcome will show the date, time, attendance, and the door of the room will be open if we click the open button.
- Incorrect results: If there is a flaw or damage in a hall-ticket or the timings of the exam are false, it will imply that you have no longer assigned to the work, and students who arrive late to the exam will be penalized.

Conclusion

The product can be described as a GUI-based system with high efficiency based on the above analysis and results. We can be sure that once the research is complete, we will be able to solve the problems with the current system. As you can imagine, QR codes have a wide variety of applications. We have used the versatility of QR codes in this document to implement functional and timely details of the exam hall plan. This project helps the user to learn subject specific exam details in less time and with more efficiency. In the future, we may add more information about data subjects.

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