

A STUDY ON EXAM HALL WITH QR CODE

Dr. Harish B G¹, Mr. Chetan Kumar G S², Akshatha D B³, Soniya R S⁴

¹HOD Professor, ²Assistant Professor, ^{3,4}Students
Department of Master of Computer Applications, UBBDTCE, Davangere

Abstract- One of the ideal situations for pupils to be actively learning is in the classroom. A supportive learning environment aids in the promotion of students' learning since face-to-face meetings allow students to ask the facilitator their questions directly. This unfinished project looks at how students are seated in the classroom and how that might affect how well they learn. It is suggested that assigning seats based on a student's academic performance from the last semester will improve their engagement and learning in the classroom. The information in this report, which is still a work in progress, was compiled after reading through pertinent materials and making some first observations during class. Five students who participated in the sessions were also interviewed informally and semi-structuredly.

1. INTRODUCTION

All aspects of modern life are now digital. Although this someof till they were digitalized. Exam is among the best examples hallplans; At the moment, it is adhering to the boards. My guiding principle is as a result toprovide a timely examination hall layout. I therefore intended to digitalizethis in terms of utilizing an android studio and a QR code. Using androidstudio For QR scanners, coding is created. utilizing a QR generator createthe information on the pupils, such as their registration number, is adequate forthis project. Then, Your ID card will have a QR code with the information on it rather than a barcode. the pasted QR code onyour A mobile application for Android scans an ID card. developedby a studio for developing androids. After scanning, it will show the exam schedule for the individual. The information in the QR code includes the The date, time, and row and column numbers that represent the student seating arrangement for the particular examIn the distant future. The test room layout is always known. This decreases a person's timings and prevents threats, which is the key benefit of my paper.

2. LITERATURE REVIEW

There isn't much research on student seating arrangements at the tertiary level, particularly on subjects like the difficulties of teaching and learning in a military setting, particularly when Malaysia serves as the setting. In general, instructors must let the nature of the tasks that need to be completed determine how the pupils are seated, according to Wannarka and Ruhl (2008). They suggested that when instructed to work alone and sat in rows, kids exhibit a higher level of appropriate behavior. Ingram (2008) made the argument in a different study that students who sit next to individuals who have a positive outlook on learning will do better. This implies that pupils who are naturally inclined to study will 'encourage' their seatmate to concentrate and study as well. Guidelines for classroom management are discovered by the researcher while working on this project. The work of Dunbar (2004) is one of them. For three main reasons, Dunbar emphasized the significance of seating arrangements. First, he claimed the seats should be chosen so that pupils may pay close attention to the teacher. The evidence supports this, but She would rather position poorer pupils close to the teacher for the quite straightforward benefit of simple monitoring. Dunbar then suggested that pupils ought to be able to view the instructor, the boards, and inscriptions on the boards. The researcher concurs with such arrangements in relation to this. The majority of the classrooms at the defense university are set up with mass arrangements of tables and chairs.

The researcher and the other instructors must then utilize the classroom learning opportunities to the fullest. Education professionals must broaden their areas of expertise and exercise greater creativity if they are to support student-centered learning. Thirdly, Dunbar argued that the design of the classroom should support a range of activities. Despite how the seating is set up set for the duration of the semester, the researcher claims that When necessary, pupils are able to switch into the groupings that the teacher has set up. Similar to this, when students are given pair assignments to do, The majority of the class will go to a seat close to their partners.

Compared to students seated in groups, rows of students are more driven to finish their assignments, according to a number of other research on student seating arrangements. The The way pupils are seated may have an impact on their attitudes toward learning., according to two studies by Wheldellet al. (1981) and Hastings and Schweiso (1995). In actuality, one of the teaching methods used in a classroom setting can be the seating arrangement.

The three most common seating arrangements, according to Holyman (2012), are: buddying, in which students with weaker academic performance sit next to those with stronger academic performance; learning style, in which depending on their preferred learning approaches, students can choose a different workstation, and they can also be grouped together and given the same materials if they have similar skills. distributed accordingly.

This study's objective is to gain knowledge regarding the present problem tracking system, as well as its advantages and disadvantages, develop a plan that capitalizes on the advantages while addressing the drawbacks. Because it enables programmers and testers to monitor their development and improve customer satisfaction, this quality assurance standard is crucial in the software development process.

Mustafa Yaci and Menderes nal [5] The design and usage of an adaptive online test system are accepted in this work. adaptive systems exams instantaneously and cooperatively produce unique sets of questions for each student. Instead of attempting to gauge

their growth, evaluate their discipline-specific skill right away. With the adaptive exam system, the student won't be sidetracked or demotivated by questions that are too simple for them. Furthermore, the detrimental consequences of questions that demand more information than a student's abilities are not taken into consideration. Because the questions are narrowly targeted, they can identify student competencies more readily and draw conclusions about student performance. Less overall computation time and increased exam management flexibility are two benefits of the method. Specifically, the system's independence in terms of how the measurements are organized.

3. METHODOLOGY

Nowadays, it's challenging to find a pupil who hasn't used technology. Technology is one of the main arteries of modern civilization. There are numerous beneficial and valuable functions, even if the bulk of tech users use it to interact and communicate with pals.. that Possibly unknown to them. Students will be given documentation of their exam location during the exam. The probe was the issue. This inquiry will demonstrate how using technology streamlines students' regular responsibilities. In order to address the issue of test attendance, the study will concentrate on both the study topic and college students. The traditional approach of using only paper and a pen wastes both the lecturer's time and the students' attention during the exam.

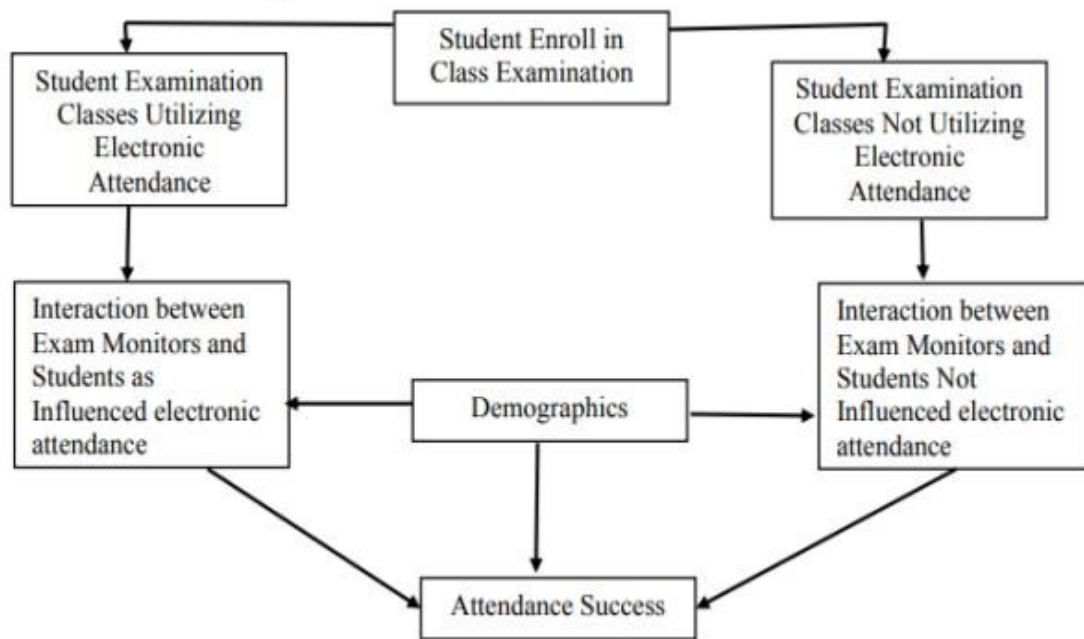


Figure 1. Conceptual Framework

The bar code sign is located using the sobel operator and the Hough transform, and the image distortion is subsequently fixed using space transformation. However, because The QR code's perimeters do not follow a continuous line, positioning using the Hough transform results in significant inaccuracies. Due to the two-dimensional bar code picture feature's restrictions, this drawing applies the convex hull concept from computational geometry to the problem of finding the bar code through a Data Matrix. This technique is capable of accurately locating two-dimensional bar codes in distorted or slanted environments.

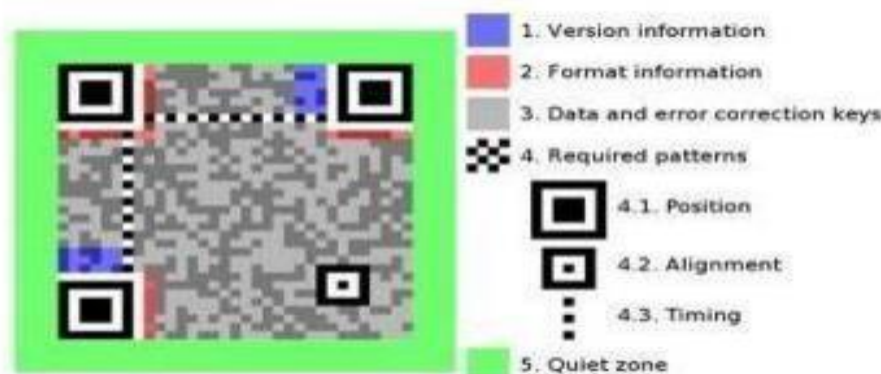


Figure 2. QR Code Structure

An application will display an error notice unless the comparison matches (Figures 2 and 3 [5-8]), in which case it will present the findings of an individual.

A standard chat camera and a program for camera control are used for image acquisition to acquire images in accordance with an input image pattern. After being gathered, the images are processed in grayscale and converted to that format. A solid binarization technique is crucial to the overall performance of the bar code identification system. In terms of local threshold algorithms, the Niblack approach is the best. However, it is quite challenging, has a significant impact It takes too long to set an appropriate window size while working on the modules.

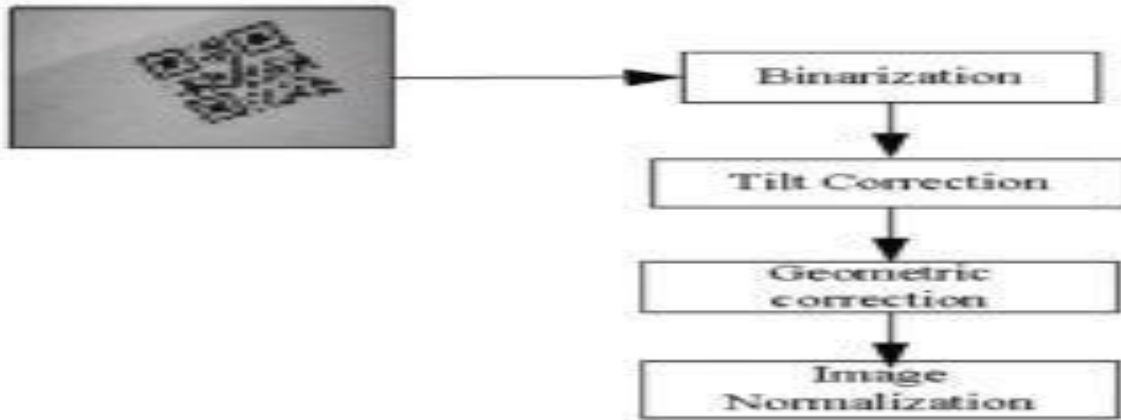
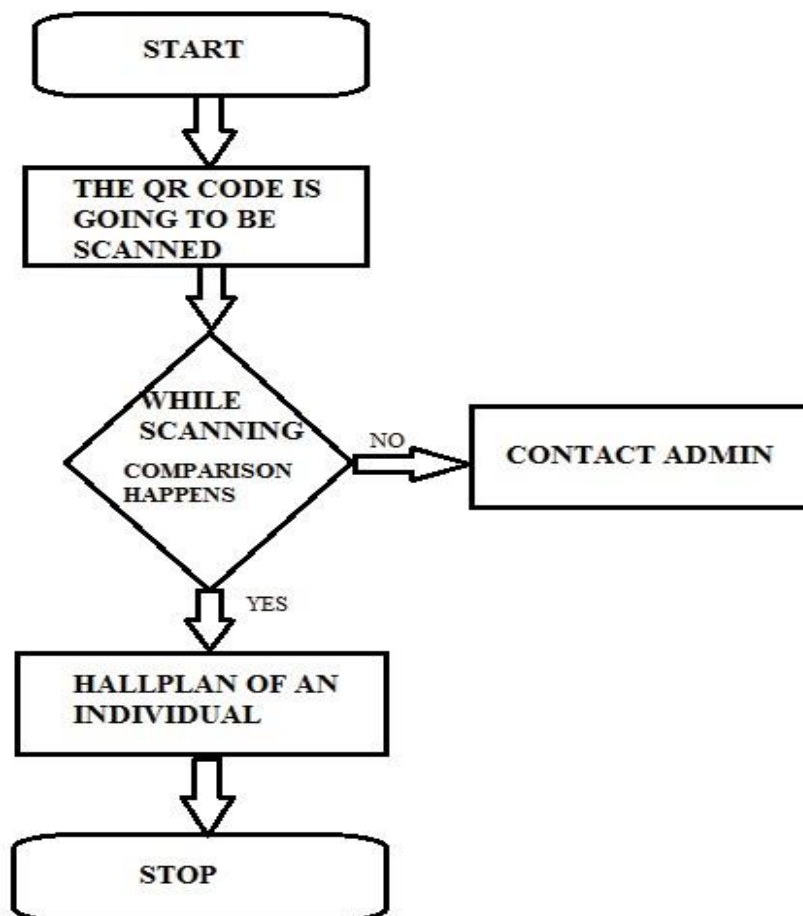


Fig : mage processng

With regard to the aforementioned subject, we are developing a system to schedule tests as efficiently as possible by placing a QR code on the hall ticket and using a QR code to track student attendance while assigning students and invigilators to exam rooms via the college's website and Android application. Attendance students' information will be securely preserved in a central database after they have been registered in the system according to their room assignment. It was straightforward for room guards to join up and receive their allotment thanks to the Android app.

The automated examination system was created to automate the conventional methods for handling exams in educational institutions, including creating reports based on the kind and timing of the exam, allocating rooms, and deleting student attendance by scanning the QR code.



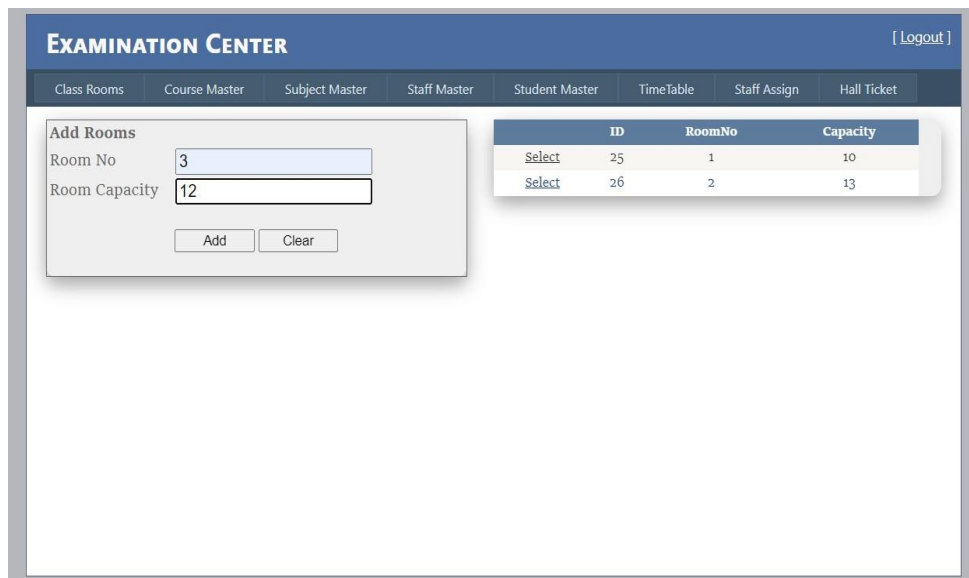
. Fg: Flow chart of mage processing

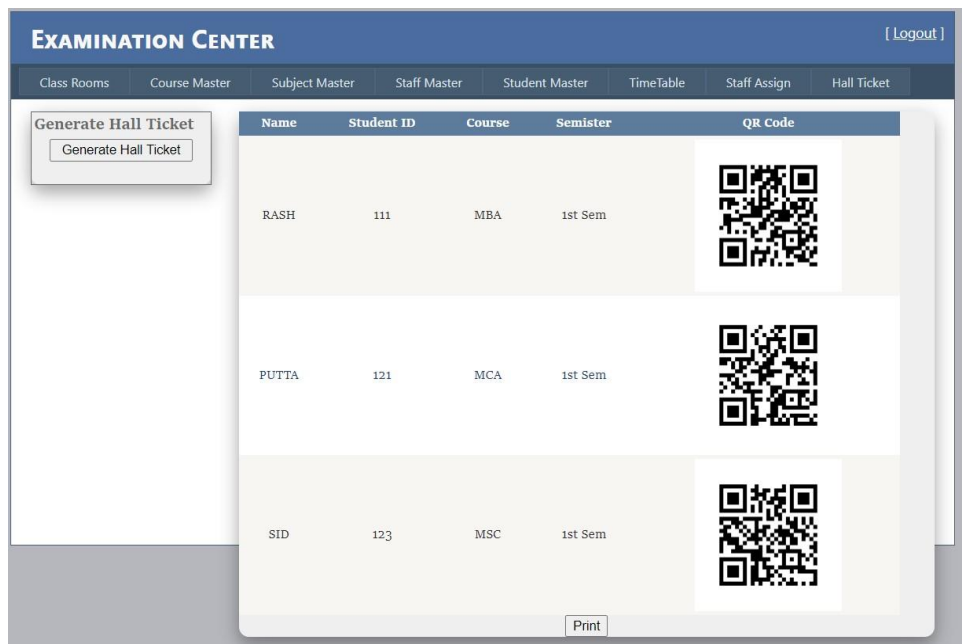
The analysis of the modest amount of data in this research demonstrates that In the classrooms, there are elements of student-centered learning. Students are urged to start the process of self-discovery through individual, couple, and group projects despite their designated seats. It must be made clear that the NDUM's seating configurations will be implemented differently than those used elsewhere. For example, unlike Point's procedures, pupils won't be rearranged over the semester to indicate their academic achievement. Students at the NDUM must sit in their designated seats for the duration of the semester.

4. RESULTS

According to the researcher, some students may be hesitant to take the front seat because they lack the confidence to speak up or because they feel uneasy being so close to the teacher. Some other students will take advantage of the opportunity to focus on their studies and ask more questions. Some students will also use their surroundings as motivation to study harder because they know that their buddies sat next to them can impart knowledge. According to the study, kids can realize their own potential in this rich learning environment, which motivates them to thrive. Although it is permanent and won't change till the semester is through, the allocated seating is one of the ways that allows students to use their

Second, the advantages of the sitting configuration might take many different shapes. Some pupils are challenged by the sitting arrangement to do better, according to the students' replies. Some of them believe that by aiding other pupils, they may accomplish good. Some kids also come to realize their own confidence and grow more self-confident. The researcher continues by saying that because they are conscious of their surroundings, pupils who are made to sit in particular locations will exhibit positive learning attitudes in the classroom. The seating arrangement aids students in developing self-awareness and self-esteem, which come about as a result of learning.





The phases 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. The Android app reads the designated QR code on the hall ticket during scanning.

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. 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.

5. CONCLUSION

The conclusion of this essay makes the case that how students are seated has benefited both the teaching and learning process and the students as well as the teacher. The arrangement gives the teacher the ability to identify pupils who need more help so that they may design activities and select resources that will help them learn. More needs to be done, especially in terms of obtaining solid evidence to support the use of assigned seating as a pedagogical tool in classroom education. The following phase of this research and its report will be primarily based on the data collected from one classroom with assigned seating. In addition to the observations, every student in the class will have a structured interview to collect extra information.

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