EXAMINATION HALL SEATING ARRANGEMENT SYSTEM

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ABSTRACT:

Exam Seating Arrangement is specifically designed for system of examination automation. This method can handle this method of exam seating virtually but rather manually. This application will be used to dynamically seat students depending on the number of students in a class as well as the number of classes, a class's total number of benches. While there is a significant amount of study on the delivery of much less work has been focused to the systems administrator of seating arrangement inside of the classroom than just to knowledge and material. The effects of seating type and location on student performance were investigated.

1. INTRODUCTION:

Exam Seating is arranged in a certain way. Specifically designed for exam system automation. This system can handle the exam Seating Arrangement process virtually but rather manually. This application will be used to dynamically seat students depending on the number of students in a class, the number of classes, and the number of benches in a class. While there is a significant amount of study on the delivery of much less work has been focused to the systems administrator of seating arrangement inside of the classroom than just to knowledge and material. The effects of seating type and location on student performance were investigated.

Seating for examinations is currently arranged in an inefficient manner. a committed individual is essential in the usual system of arranging seating for examination. This person should first collect information about students, such as names as well as which students attended the exam. This person should also be familiar with the all the classrooms and all of the benches. On every of the benches, someone should write the seat number. Then a person must personally assign each seat to each student, which is a complex and time-consuming operation. He must also post these documents on a notice board where students can access them. Students must arrive around an hour before the examination to see their seats. This is also time-consuming and long.
To address this, we created a mobile application that could update information and provide seat location. A dedicated individual should be required to put in information, upload the data to the server, where a real-time server will update all of the data, and students should be able to see where they are at all times simply entering their information automatically registration number in the field. To retain student information, we were using a database.

![Figure 1: Modules](image)

2. Literature Survey:

The school building and classroom atmosphere have a significant impact on an individual student day. The best governance of literature highlights a few of the research that has been conducted to determine which aspects of the school-based conditions are most beneficial to students' behaviour in the past and education. To have a clear grasp of the many activities that are meaningful to this topic, The literature review is composed of eight sections. Qualitative methods, school facilities atmosphere, classroom management, seating selection, classroom geometric requirements, spatial layout, classroom environment and special needs children Kaya and Burgess investigated students' uniqueness in several forms of classroom layouts depending on gender and seat choice. Rows of tablet-arm seats, U-shaped, clusters, and rows of tables with individual chairs were among the classroom configurations. A questionnaire was undertaken at a big public agency in the southeast region of the United States for the study.

Students who opted seats somewhere at extremities of rows of desks with separate seats and table arm chair layouts performed better on asserting a special seat than students who wanted seats in the centre of a row. Students who chose seats at the end of rows showed a greater intention to develop their own domain in rows of tables with personalized chair layouts than students who selected seats in the middle of rows. The U-shaped and group layouts yielded no meaningful outcomes. Regardless of seating plan, girls performed better on securing a certain seat in the classrooms than boys. In classrooms where students are obliged or choose to carry many items to class, such as a backpack, jacket, and handbag in addition to notes and textbooks, this study discovered that defining As a method of comfortably engaging in active learning, identifying one's own area may become increasingly crucial. These investigations were conducted in a college classroom and may be conflicting if conducted at the primary level. Over the last few decades, opinions on classroom layout and seating configurations have shifted. In the 1970s, the majority of students were taught in a traditional classroom environment. Centered on the typical row international classroom set-up According to Weinstein, there has been a spike in curiosity in assessing the impact of the educational environment on children.
3. PROBLEM STATEMENT

With each passing day, many organizations were growing less and less inclined using a centralized educational systems. One of the key reasons is that so many pupils, programs, other sections grows, it will nearly impossible to allot adequate places for examinations. Unless a majority of pupils come from various backgrounds, this can be hard to accurately allot places to the people coming from different departments. For efficient examination seating distribution, we must adhere with various pre-requisites. It is essential to verify the optimum utilization of space in rooms.

To avoid such annoyances, various organizations advocate for a decentralized written test rather than a centralized test system. This allow courses instructors to schedule tests for individuals on similar class independently. However, managing reliable examinations while organizing exams in this way manner is extremely difficult to the organization staff. As a result, the quality of examinations and examinations has been a point of contention for many academic organizations. This test seating and hall arrangement for the exam. My project goal is to develop an answer for test seating room assignment issues in order to avoid test fraud.

4. SYSTEM REQUIREMENT

H/W System Configuration

CPU Type: Intel Pentium 4
Ram Size: 2 or 4 GB
Hard Disk Capacity: 1TB
Monitor Type: 15 Inch Color Monitor
Keyboard Type: Internet Keyboard
Mobile: Android

5. WORKING OF SYSTEM

Each segment would have its own set of functions that this could use to do its purpose. During conducting this process, each user has ready control from the visualization of info. Just because of person's verification was
incorrect, its operator will not be capable to get the information at this moment. Operator: The admin screen has one personal id along with key when it was needed it wants to access.

**Phase 1:**

Regarding examination sitting, 2 types of details are used: classroom details (hall identity, how many seats), also exam data (subject code plus how many people). This should measure how many seats and participants by analyzing data.

**Phase 2:**

If number of extra chairs exceeds the ability of hall, 1 or more extra rooms could be available. Under this point, this would look for halls that must be left unfilled during the test.

**Phase 3:**

Because although the fundamental notion has always been to allocate lines toward the topic, how many rows, columns must also be calculated. This aims to make minimum 1 line difference between pupils who have similar exam for controlling malpractice. As a result, to every query, this would compute the total effective line as well as its capability.

**Phase 4:**

Queries should also be assigned divisions. One could determine any collection of sectors that would be given for students for utilizing the combination of bearing capacity (row). This can then generate any collection of seats for every query. New columns aren't essential when we use best-case scenario, and at the waste scenario, this may be necessary for assign few new chairs to subjects in order to obtain a collection of columns to test setting.

**Phase 5:**

This has subjects with varying line sizes and numbers. People must have a hall identities which should be indicated with the id of each seat in vertical and horizontal positions of hall, with the same space. Recognition results seat space is normally same. It provides a hall as well as id that represents column to query by keeping the panels with the similar topic separated by one column. This would give overall seating plan to the test once the division of room as columns.

6. **MODULE DESCRIPTION**

6.1 **Admin Login Page**

This is a login screen for administrators. that gives the administrator access to all of the system's data. A valid user id and password are required for the administrator. for this reason. As a result, the administrator will have access to all of the system's data. Administrators have the authority to keep sensitive information hidden from unauthorized users. The modification of diverse data from the system is always the responsibility of the system
administrator. After successfully logging in, the administrator will be able to access more exam-related information, for the exam, such as physical structure allocation and faculty distribution.

![Admin Login page](image)

**Figure 2: Admin Login page**

### 6.2 Physical structure

The following figure appears after you've selected the physical structure. It shows the structure of a class and includes the name of a department. How many are there? How many classes does a department contain? What is one class's capacity? Additionally, provide the overall capacity of all classes.

![Physical structure](image)

**Figure 3: Physical structure of admin login page**
6.3. Faculty login page

The following figure will appear after clicking on the faculty list. It lists the names of each department's faculty members, along with their faculty ID.

![Faculty login page](image1.png)

**Figure 4: Faculty login page**

6.4. Subject Allocation:

You will be able to allocate each subject for each student about the subjects of each semester in the subject allocation module.

![Subject Allocation](image2.png)

**Figure 5: Subject Allocation**

6.5 Seat Allocation:
The following graphic depicts the whole class strength, and it starts allocating when you hit Start Allocation. displays the student roll number arrangement.

![Figure 6: Seat Allocation](image)

6.6 Student seat and room number Allocation

If a student is unable to locate his or her seat on the Student Seat Search page, by entering the student's roll number, the administrator can immediately locate the student. locate the student's seat. The workings of the Student Seat Search are depicted in the diagram below.

![Figure 7: Student Room and Seat Number Allocation](image)
7. ADVANTAGE AND FUTURE SCOPE

- In comparison to the present system, ours takes a fraction of the time to process all of Display the data on the student's panel.
- This technique relieves the people who work in the examination department of a great deal of stress.
- While any exam is being administered, examiners must inspect They must count the number of desks and benches in the entire classroom on their own.
- Examiners also create all of these data on their own, according to the exam timetable. As a result, establishing this application is quite beneficial to the exam controller.
- Students' roll numbers will be randomly assigned, which will be highly effective.
- The technology that has been developed creates a backup of earlier data for future use.
- As soon as the examination data is generated, the newly built system creates a backup and saves the data associated with the time table in the form of an html file that will be used for printing, hard copy instructions, and other uses.
- It can be employed in a variety of settings, including colleges, institutions, schools, and universities.
- This system can handle any form of exam, and there is no limit to the number of students who can take.
- In the future, a system will be created that, after performing a test at Exam seats will be dynamically assigned at the university level. allotted, requiring Only the administrator has access to the information.
- It will show the class architecture more clearly with the use of 3D graphics.
- When a project is being implemented at the At the university level, the system will gradually add a number of colleges.. As a result, each college administration will have the authority to run their own exam.

8. CONCLUSION

Seats in a classroom can be designated as variable according to the given initiating system. There are a variety of segments of an admin console, each with its own set of features. Students' class id, roll, building, subject, and corresponding changeover are all based on this. These instructions will be extremely beneficial to the administrator. There is a password alteration segment for security reasons, with the admin having the authority to modify the password. One of the most important features of the admin console is that it will only display tomorrow's paper and will also provide a backup plan of the current paper, which will be ideal for preside over the next paper.
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