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# Design and Implementation of Automatic Exam Pre-processing System

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## ABSTRACT

Examination preprocessing for seat allocation and duty allocation manually is difficult due to increasing number of students, subjects, courses, faculty, staff and rooms. This system provides a solution by arranging seats for large number of students and finding best combination of rooms based on room size, number of students and differentiation of subjects. It is a better replacement for manual system. This system also provides the list of students those who were not attended the examinations. It provides better seating plan then the manual system used by the university.

**Keywords :** Exam, Seating Plan, SeatAllocation.

## I. INTRODUCTION

Examination is one of the major concerns in quality education. Due to increasing number of students, subjects, exam, department, staff, rooms it create a problem in improper seating arrangement. This system provides a better seating plan than a manual system which helps to handle examination process easily and in a proper manner without any delay. Main objective here is to feed the number of students and faculty list which will generate hall plan and allocation of duty immediately according to day of examination, which will be SQL database. The web server will be PHP.

## II. PROBLEM DEFINITION

It will create innovative tools for addressing the specific needs of Educational Institutions and making it easier for allocation of seating arrangements and allocation of staff invigilation duty. It will give full flexibility for allocating seats for the students and to make any updation. This system provides hall plan which includes seating capacity, allocation of seats for students and staff duty automatically .Which will be helpful for the institution to easily identify and can make changes in seating arrangements within few minutes allocation of duties with hall number.

## III. METHOD OF SOLVING THE PROBLEM

This system removes all manual burdens and provides an efficient system that helps the examination process to be carried out easily.

As it is GUI based it provides a lot of flexibility for end users in which Database manipulation is easy and it avoids unauthorized access and reduces time.

We can use various size papers for taking printouts.

## IV. PURPOSE OF DOCUMENT

The purpose of this is to reduce manual burdens faced by educational institution and it is helpful for

students to identify their exam hall and staff duty allocation easily.

## V. SCOPE FOR DEVELOPMENT OF THIS PROJECT

Login into the system through the first page of the application and verify the username, password in background as MS Access.

Students and staff can able to view their exam hall allocation.

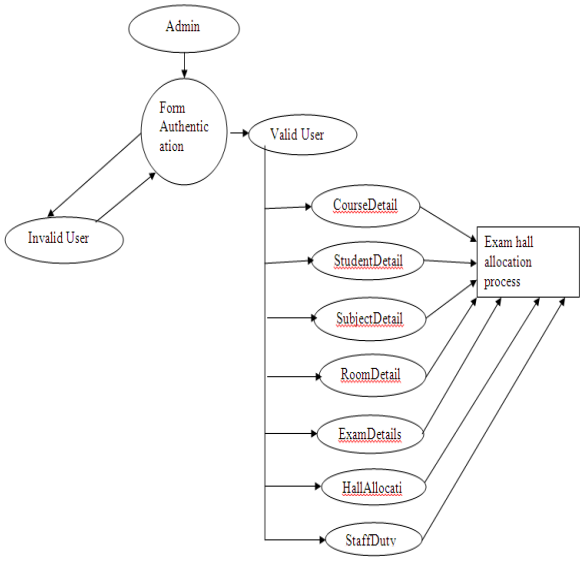
The admin will upload the students details and staff details for hall allotment.

## VI. SYSTEM REQUIREMENTS

Software Requirements:

Operating Systems: Windows XP
Front-End : MSVisualStudio
Back-End : Microsoft Access 2007

## VII. ARCHITECTURALDIAGRAMS




## VIII. MODULE DESCRIPTION

### A. Form authentication:

Event portal shows what are the events will be conducted in our institution or respective department and it can viewed by the student as well as parents.

### B. Course details:

The valid administrator adds the new department's information in the module and removes the department information from the database.

### C. Student details:

The management details can view the academic information of students easily. It includes the fields like mode of joining, admission category percentage of marks etc. Students have unique register number.

### D. Room Details:

Parent module shows the candidate marks and also parent can give the feedback about the performance of student.

### E. Subject Details:

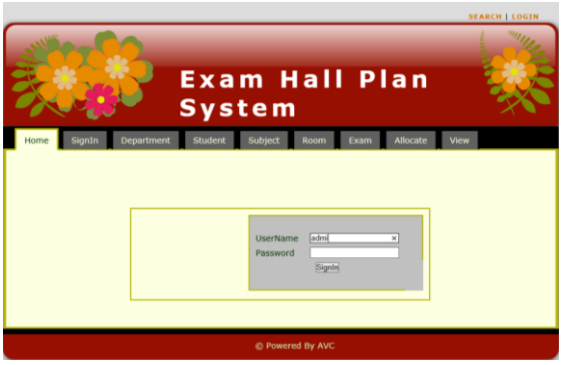
Subject details are updated by corresponding faculty in every department. It inserted for each and every semester. The semester details will give details about the seating arrangements belongs to which semester

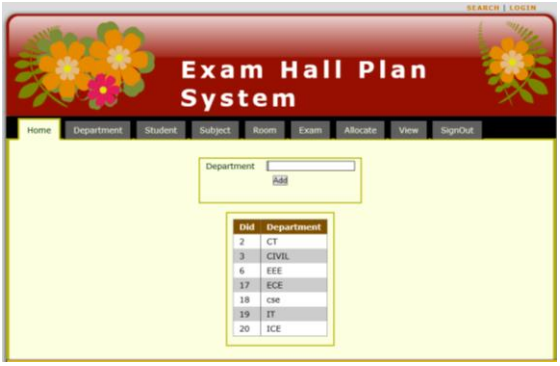
### F. Room Allocation:

The admin can login with the details. The login module checks user validation. It contains room details, number of occupied seats and number of empty seats.

### Allocation Details:

It generates the report between two given dates. The report may be for occupied or free seats generated in a detail or summary manner.






## IX. RESULTS

This will be login with username, password and then the exam hall allocation for students as well as staff duty can be displayed automatically.

## X. CONCLUSION

It is an efficient method for automating the work of examination process in institutions on cloud and provides a better replacement for manual system. The cloud service provides a data storage services.

This will reduce a huge number of workload that have to be given by the employees before exam to prepare an exam seating arrangement plan. Also this will reduce the risk of mismanagement during exam like not having seats for all students, overlapping of multiple students in the same seat, not having proper distance between students with same question sets, etc.,

## XI. FUTURE SCOPE

The application can be extended with various contents such as automatically the attendance can be generated using RFID and developed as an application.

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