Exam Cell Automation System
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Abstract:
Exam Cell Automation System is developed for the college to simplify examination hall allotment and seating arrangement. It facilitates to access the examination information of a particular student in a particular class. The purpose of developing exam hall seating arrangement system is to computerized the traditional way of conducting exams. Another purpose for developing this software is to generate the seating arrangement report automatically during exams at the end of the session or in between the session. The scope of the project is the system on which the software is installed, i.e. the project is developed as a web based application, and it will work for a particular institute. Mostly students are facing many problems for finding the exam hall and their seats respectively. A newly invented concept can aid for the students for checking their exam halls. This helps them to identify the floor or get directions to their respective halls without delays. The Students details have information about all the students who attend the examination. It contains the name of the student, Branch of the student and their names. Hall Details have total number of halls available in the institution and the name of the hall and the examination timings details have total timing allotted to students and hall etc. The project keeps track of various details in modules such as, Students Details, Examination Timing Details, and Hall Details with the proper descriptions.

Index Terms: Exam Cell Automation System, Login page designing, student’s details, and Reporting

I. INTRODUCTION
Examination Cell Automation System is developed for the college to simplify the allocation of halls. It facilitates to access the examination information of a particular student in a particular department. The information is sorted information alphabetically, which will be provided by the teacher for a respective department. Here the admin updates the student details, exam timings, hall details, staff details and available space in the hall. So the automated system will give the seating details to the students whose details were listed in the spreadsheet.

1. PURPOSE
The purpose of developing exam cell automation system is to computerize the traditional way of conducting the exams. Another purpose for developing this software is to generate the seating arrangement report automatically during exams at the end of the session or in between the session.

2. SCOPE
The scope of the project is the designing a web interface and it will be given to a college for future use.

II. SYSTEM ANALYSIS
1. EXISTING SYSTEM
Existing system is very slow and inefficient. Report generation is also not an easy task in the current situation. Also if the report is generated then calculations are done manually that leads to more errors. There is a lot of manual work involved in current system and mistake in one detail can lead to wrong generation of page. No proper collection of requirements leads a huge problem for this system. This system is to enhance manual work and also more energy is wasted to allocate the seating arrangement.

2. DISADVANTAGES OF EXISTING SYSTEM
- Current system is manual so all the records are maintained manually. So the seating arrangement of students cannot be determined if updating is not done.
- Time Consuming
- Less Efficient
- More manual Work Required
- Less Accurate
- Not User Friendly

III. SOFTWARE ENVIRONMENT
1. FRONT END
VISUAL STUDIO.NET
Visual Studio .NET is Microsoft’s visual programming environment for creating web services based on the use of Extensible Mark Up Language(XML). The product suite provides a visual interface for identifying a program as a web service, forms for building a user interface (including support for mobile device interfaces), features for integrating existing application data, and for debugging .Visual Studio .NET comes with the .NET Framework, including the common language runtime, and includes several programming languages including Visual Basic, Visual C#.

SQL SERVER EXPRESS
Microsoft SQL Server Express, a freely downloadable and distributable version of Microsoft's SQL Server relational database management system, comprises a database specifically targeted for embedded and smaller-scale applications. The product traces its roots to the Microsoft Database Engine (MSDE) product, which was shipped with
SQL Server 2000. The "Express" branding has been used since the release of SQL Server 2005.

IV. PROPOSED SYSTEM

1. USER FRIENDLY
   This system is user friendly for the retrieval and storing of data. And it is fast to store the data. It is maintained efficiently. The graphical user interface is implemented in this proposed system. It is more efficient than existing system.

2. REPORTS ARE EASILY GENERATED
   Reports like seating arrangements can be easily generated in this proposed system by that user can generate the report as per the requirement and their wish for the duration of month or the day.

3. VERY LESS PAPER WORK
   The proposed system requires very less paper work. All the data is entered into the computer immediately and reports can be generated by the help of computers. So that work will become very easy because there is no need to keep data on more papers.

4. COMPUTER OPERATOR CONTROL
   Computer operator control is available so rate of errors will be less. Storing and retrieving of information is simple. So work can be done correct time and also good in speed.

V. MODULE DESCRIPTION

MODULES

1. ADMIN LOGIN FORM
   Here admin has to login by using their unique username and password. Admin is the only authorized person to access this module for security purpose. So other users don’t get rights to access this module for their purpose.

2. STUDENT REGISTRATION
   In these module students has to register their personal details like register number, name, year, semester, arrear details, department, username, and password. This registration will be used to avoid anonymous users. After the registration process is completed, student will get an account to use login page.

3. SEATING ARRANGEMENT FOR STUDENTS
   In this module admin view seating arrangement details for the students by logging into the system using his unique username and password. It is the job of admin to update the student details, hall details, invigilator details and exam timing details. A student detail includes register number, name and department and hall details include hall number. Invigilator details include the name of the staffs who are going for invigilation and exam timing details includes the date and exam timing.

4. VIEW DETAILS
   In this module students can view the details by giving their unique username and password. By giving the correct username and password he/she can see their seating number and hall number respectively.
VI. ARCHITECTURE DIAGRAM

A graphical representation of the concepts, their principles, elements and components that are part of architecture. System architecture is a conceptual model that defines the structure, behaviour, and more views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviours of the system. A system architecture can comprise system components that will work together to implement the overall system. There have been efforts to formalize languages to describe system architecture; collectively these are called architecture description languages (ADLs).

Figure 1. Architecture Diagram

VII. CONCLUSION

A web based interface for showing hall name for student is developed, which makes students to see their seat in respective hall easily. Username and password is created for unique user by registering their details in register module.

VIII. FUTURE ENHANCEMENT

The existing system can be enhanced, by giving the different seating arrangements i.e., different constraints can be given to get different arrangements. By internet, automatically timetable has to fetch to the database and that seating should be created according to the particular date and session.

IX. REFERENCES

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[2]. www.worldcolleges.info