Exam Cell Automation System

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Abstract : *Currently Exam cell activity mostly includes a lot of manual calculations and is mostly paper based. The project aims to bring in a centralized system that will ensure the activities in the context of an examination that can be effectively managed. This system allows students to enroll themselves into the system by registering like by providing their Enrollment number, Name, email, examination, semester, etc. Examination Cell Automation System is developed for the college to simplify the activities of Staff and Students .It facilitates to access the examination information of a particular student in a particular department. The information is stored into the database,which will be provided by the teacher for a respective student. Here the admin updates the student details, staff details and can add or delete them.*

Keywords: *Automated, Database, Email, Exam Cell, Result Generation*

I.   Introduction

Our Examination Department process has become very tiresome. Most of the colleges are maintaining student information in records and hence a lot of paperwork goes into it. When the number of records increase the precipice, it becomes difficult to maintain the information of each student in the antiquated system. Automated solutions using this system will make exam department activities more efficient by covering for the most important drawbacks of manual system, namely speed, precision and simplicity. A centralized system will ensure that the activities in the context of an examination can be managed effectively, while also making it more accessible and convenient for both students and staff. Therefore the online form filling,Hallticket,Seating Arrangement and finally Results is taking over the traditional system. Maintaining the records manually makes the system prone to errors and requires more labour and time for processing the records.

The final product would constitute a computerized module aimed at replicating offline exam cell process. The system is a new concept which came into existence because of the large amount of data being on paper and it made analysis of results a tedious task, apart from the unmanageable amount of data that is generated in an institution from various departments. The Automation system is like an intermediary between staff and students, thus easing the activities of each regarding examination. It is a system that will make the exam cell process much organized. It would require certain crucial data to be pre-existing, which definitely suggest a dependency on certain other systems, especially ones concerning data acquisition. The Solution, however, will manage a great deal of menial work. This keeps paperwork to its minimum, leading to ease of accountability, reducing confusions and increase in work rate and efficiency. The project will address firstly, access to various users including students, staff and admin. Then customization based on requirement of College. And finally automated result analysis and ancillary services. The system under consideration is prepared in order to replace the current paper record system with an automated online management system. College Staff are able to directly access all aspects of a student's academic progress through a secure, online interface through a website.

II.   Proposed System

There will be 3 main modules in the system:
- Admin
- Staff
- Student

1.1 Role of Admin:
- Add / Update / Delete / View staff members in database
- View Student Registration in Database
- 3.Generate Marksheet

1.2 Role of Staff**:**
- View Students Registration
- Add Student Marks

1.3 Role of Student:
- Register into the System
- Enroll of Examination – Online
- Download Hall Ticket
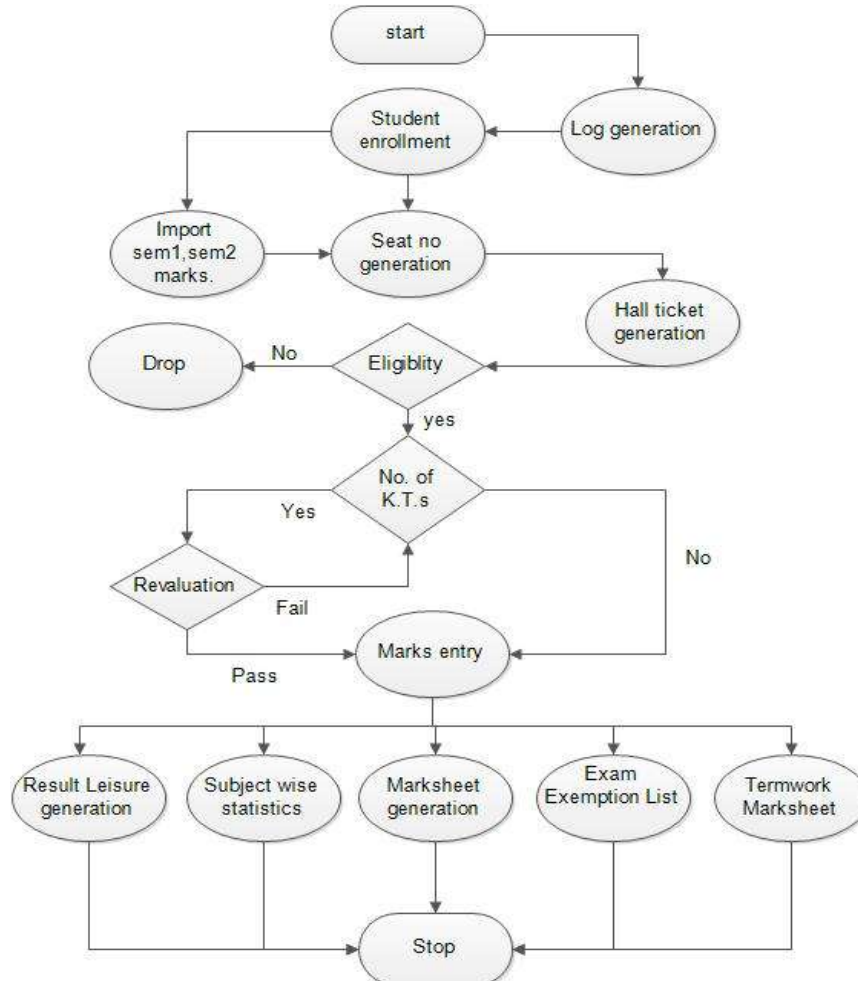- View Marks
- Fill Exam Forms

III.   Flowchart

Fig.3.1 Flowchart for Automated Examination System

IV.   Conclusion

Considering the extremely interwoven nature of exam cell activities, an automated solution to important activities like result generation and form filling would greatly benefit the institution. The use of up-to-date open-source software ensures a great cost-benefit measure while maintaining productivity, thus improving the student experience and value of education. Further, the implementation of this system can perpetuate the automation of other important activities in the institute, thus making the college more student and staff-friendly. We have been successful in deploying the entire form filling , hall ticket , seating arrangement , results module using Internet and Email .

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