STUDENT SEMESTER RESULT MANAGEMENT SYSTEM

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Abstract
The technological development and impact of computers and internet on our lives that has been verified over time affected various sectors of activity. And almost every task today is being run through computers. Getting information and quickly turning it into a product that consumers want is the essential key to staying in business and all of this is done nowadays using computers and applications or information systems. And the education system is undeniably the backbone of the society, it focusses at preparing the young talents for the future. However, currently the process of students' result management and declaration at the Vignan's Nirula Institute of Technology and Science for Women, is performed manually with extensive human intervention, the students' results are generated through a spreadsheet application and then printed on a paper, attached to a wall for declaration and then stored. The current research aims at creating a web-based student result management system, reducing time, effort and improving security. The project, **"STUDENT SEMESTER RESULT MANAGEMENT SYSTEM"** is a web based application developed to provide the examination result to the student in a simple way and is useful for both students and institutions. The main objective of this project is to manage the details of result, progress, student, course, exam etc and to reduce the manual work. Students can access and download their result by entering their roll number and get the details whenever they need. Faculty also can view the subject- wise result, branch-wise result and the administration provides authentication to students and faculty.

I Introduction

The impact of computers and internet, on ourlives today is probably much more than we really know. Getting information and quickly turning it into a product that consumers want is the essential key to staying in business and all of this is done nowadays using computers and applicationsor information systems.
And the information systems will continue to change businesses and the way we live. Many corporate leaders are using technology to manage every aspect of their organization, from product creation to customer service.
It has brought evolution in almost every field, it changed the ways of teaching, administration of activities such as e- learning, e-library and online portals where teachers and students communicate, and sharing of information has never been better.
Student result declaration and management are amongst the most importantactivities within a university or any educational institution, since all other activities depend on it. Hence implementing an information system can be declared asignificance result.
The main objective of this research is to enhance and automate the management and declaration of students' results using a computerized system.
Management System: A management system is a set of policies, processes and procedures used by an organization to fulfil the tasks required to achieve its objectives.
These objectives cover many aspects of the organization's operations.
Result Management System: The "ResultManagement System" has been developed tooverride the problems prevailed in manual system.

II Literature Survey

A. Existing System

The external results released by JNTUK to the college administration are sent to the examination cell. Then the correspondingdepartments analyses the results and finally the respective departments will report the result to the students. It is not very effective as the system consumes a lot of time and human resources in performing various tasks, it is costly, it lacks data security and efficiency. And at present, the institution needs an advanced and computerized environment. And once implemented, it will minimize all the problems mentioned.

Drawbacks:

- It's time consuming.
- The system is complex
- It's a manual process.
- They cannot access their results fromhome.

B. Proposed System

We have successfully proposed the **"STUDENT SEMESTER RESULT MANAGEMENT SYSTEM"** for replacingthe manual work of the Administration. Student can download their result andfaculty can view subject-wise result. This application is flexible and can easily accessed by the student. So, the time taken for getting the information will be reduced. It reduces human effort. The students will have a smart management of their results andwill be able to keep track of their progresswith an ease of access, from anywhere,anytime and any device that has an internetconnection, and just by entering theirrespective credentials provided by theinstitution. Not only for the students, but forthe faculty and the institution's employeesmanaging the system as well. They will be able to keep their data organized and secure.

The system will allow the faculty to viewthe subject-wise, section-wise, branch-wise, and semester-wise results, then automatically perform the grades calculation. They can view the supplementary results and also revaluation result and the students could easily access and print their results. Not only their current results but also their previous semesters results. This avoids the administration from doing all the work manually, and have a better work quality and management that would reduce time, human effort and errors

The following dataflow diagrams represent the actual functioning of the Student Semester Result Management System.

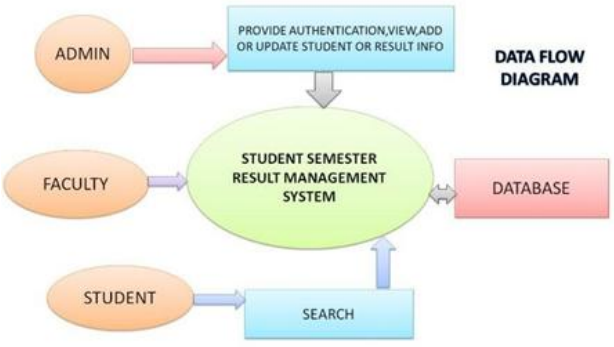
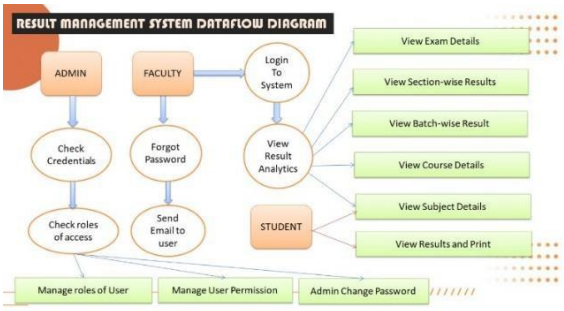
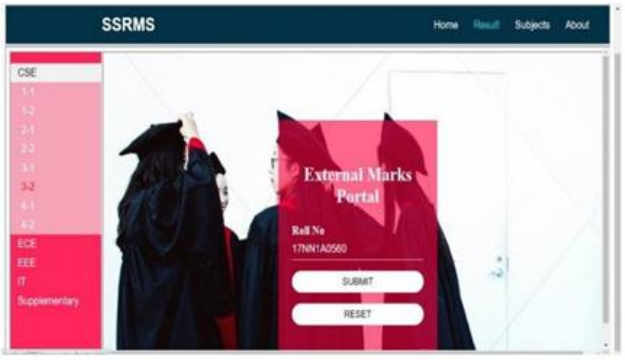
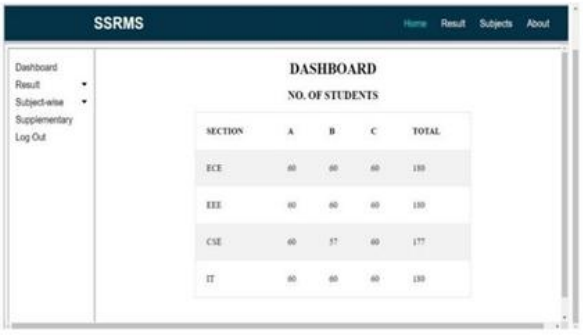


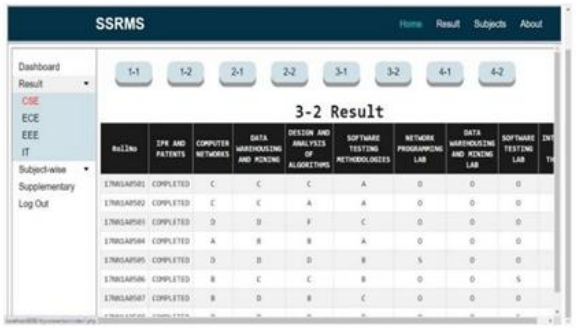
Fig.1: Dataflow Diagram for student resultmanagement

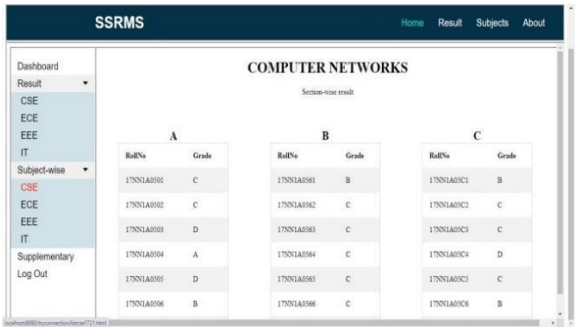


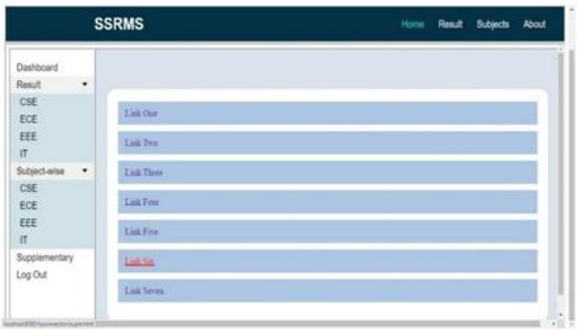
III. Output Screenshots











Conclusion

The present research was based on the computerization and the implementation ofa sophisticated Web-Based StudentSemester Result Management System for the Vignan's Nirula Institute of Technologyand Science for Women, Guntur. The main objective was to enhance and automate the management and declaration of students' results using a computerized system. A well-defined, efficient, controlled and managed information system or software based on web technology storing, processing and providing information through the internet. And the objectives were achieved byfollowing a process model such as system implementation. The system analysis was composed of two activities, requirement determination and structuring.

The first activity focused on the collection of data or requirements through structured interview, work environment observation and by collecting procedures and other written documents. And the latter,performed the modelling of the collected data and processes, transforming it into UML diagrams with the aid of a UML

modelling tool, into a graphicallyunderstandable manner. Just as structured analysis uses DFDs (Data Flow Diagrams) to model data and processes, systems analysts use UML to describe Object Oriented systems, on which the current system is based. UML is independent of any specific programming language and can be used to describe business processes and requirements generally. Finally, the implementation or coding of the proposed system was based on the software architecture standard, using PHP programming language, which is based on the object-oriented paradigm, HTML and CSS to structure and design the webpage and JavaScript used for validations and to store data, MySQL database was used.

Future Work

In near future, the system interface could beimproved, with more features like calculation of overall cgpa of all semesters of every student, add a search-bar if necessary, make it more attractive, interactive; Enhance the system with anemail and SMS (Short Message Service) oremail notifications; Enhance the current system by computerizing almost all of the services provided by the institution, turning it into a complete LMS; And evolve the system by developing several versions through users' feedback, if a complete solution has not been worked out.

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