

**University of Science and Technology**  
**College for Graduate Studies and Academic Advancement**

**A Research project in:**

**Development of Student Result System**

**Thesis submitted in Partial Fulfillment of the Requirements for  
the Degree of Master of Information System**

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# **ABSTRACT**

Information technology has produced recently several tools with rich techniques that made a huge deferent and clear change particularly in designing information system which opened large doors for developers and creators to push forward the system to assist for changing the conceptions.

The research is discussing the most important issue of the students examinations results system in which we made ease to how the students receive the last result by professional website designed for this purpose. So behind that we get benefits as follows:

- We save more time.
- We possibly tackle any mistakes.
- We will easily made strong link between other departments.
- We preserve the subject to be corrupt in state of papers.

So, we have to use Dream Weaver program in designing website pages and PHP-MYSQL for database.

## مستخلص البحث

تكنولوجيا المعلومات أنتجت في السنوات الأخيرة العديد من التقنيات الغنية والأدوات الفعالة التي من شأنها تغيير الكثير من التوجيهات التقليدية وخاصة فيما يتعلق بجانب تصميم نظم المعلومات ، إذ أن ثورة المصادر المفتوحة تمكنت بالفعل من قلب كثير من الموازين ، وفتحت آفاق أوسع وأشمل للمطورين على إختلاف توجهاتهم للإبداع وتغيير المفاهيم.

يناقش البحث إحدى القضايا المهمة التي وبالرغم من اهميتها لم يتم تناولها في كثير من البحوث وهي قضية نظم معالجة نتائج الطلاب ، حيث تناول البحث تصميم موقع إلكتروني على شبكة الإنترنت لإدراج ومعالجة درجات الطلاب ، على ان يتم إستقبال درجات الطلاب من على البعد والقيام بكافة مايلزم لمعالجة هذه الدرجات وإستخراج النتيجة ، بالإضافة الى توفير آلية لمساعدة الأقسام على معالجة النتائج التي بها شذوذ بدلاً من إجراء هذه العمليات يدوياً ، مما يوفر الوقت والجهد وسهولة الإطلاع على النتيجة من على الموقع الإلكتروني بالنسبة للطلاب.

تم استخدام برنامج Dream Waver في تصميم صفحات الموقع الإلكتروني ، وتم استخدام PHP-MYSQL في تصميم وانشاء قواعد البيانات ، وربطها بصفحات الموقع الإلكتروني.

## 1.1 Introduction

The information system plays an important and sensitive role in any organization as it is the information source. It is considered as a vital element where the timely and strategic decisions of the organization are made on the basis of the information output by the system.

The managerial information systems (MIS) combine the information technology and computer and management sciences as they aim at building computer systems that works to help various establishments to carry out their works.

Also, the use of computer systems in managerial operations of the organizations minimizes the efforts and the financial burdens on employees and eliminates the drawbacks of human work which may result from weariness and lack of the required moral motivation.

They also help in reducing the volume of burden on the organization and having computerized information systems increases the organization competitive ability in work environment.

Information system is a mechanism that enables the collecting, classification, processing and retrieval of information- previously manually or mechanically and presently electronically- stored in files and producing new information from the already one that exists in the system

after processing it. And because of the facilitations provided by electronic computers, they can't be exceeded. So, the serious thinking in building a computerized information system became a fundamental issue for the following reasons:

- 1- Speed: where the documentation processes required for the information and its different utensils are faster when the computers are used specially for information retrieval.
- 2- Precision: where the probability of committing errors is bigger in the classical manual systems than in computerized systems and that is because of the weariness and tiredness that catch the human in the field of manual work. As for the computer, its performance keeps the same ability and precision in the last minutes of its work as well as the first one irrespective of the time, period and circumstances of the work.
- 3- Effort saving: the human effort in the classical systems is more than that in the computerized ones whether in the level of information processing measurements or the level of retrieving the information and sources and use of it by researchers and other beneficiaries.
- 4- Quantity of information: the amount of information and documents stored by classical ways is limited whatever the human and space

capabilities are compared by the huge and growing of computers memories and other electronic and laser storage and saving media.

- 5- Available retrieval options: the information retrieval options are larger and better in the computerized system than in the classical ones.

All the previously mentioned show the importance of using information systems in all organizations with their different kinds whether they are service or educational which facilitate achievement of all organization tasks with high precision and in shortest time and minimum effort.

The results system in the various educational organizations faces a number of problems some of which will be discussed, so it should be changed from classical manual system to electronic on using the information system. In the classical results system the teachers work out a report that contains the students' names and the score he attained in the subject.

So, there will be a number of reports containing the names and scores of the students according to the class. All these reports are collected and handed to the head of department who will include them all in one report containing the students' names and scores and perform several

operations that end with the presentation of rate and degree of each student.

After that a final report will be submitted to the Dean of the faculty who finalize the result and the council of senates meets to approve the result which will announced to the students on prepared walls

All the previously mentioned needs a very big effort and high precision in order to process the results in suitable time or it will take a very long time.

Because of all this we think it is necessary to use the available technology to computerize this system so as to resolve the mentioned problems.

## **1.2 Definition of problem**

The problem can be divided into two sections:

### **1.2.1 from the student side:**

A random group of students were asked some questions about the classical system of results, so some problems faced them:

- a) period of result declaration

A group of students deform their results using pens or other sharp tools yielding the deformation or tearing of the affects the assumed

period of result presentation and hence generates a problem to those who haven't seen their results.

- b) The students who live far away or who were forced to travel face problems in knowing their results.

### **1.2.2 from the teachers side**

- (a) the effort dissipated in result calculation
- (b) the precision of calculation
- (c) the time

All previously mentioned problems should thoroughly be resolved, and that will be done by using information systems in the new proposed system.

### **1.3 Objectives**

The objective of the proposed system is:

- To solve the problems of the previously mentioned system.
- For the result will be worked out with minimum effort, high precision and in a very short time.
- The result will be presented in a nice and secure way to the students.
- The system is secure.

- The system is independent of the time and place to carry its operations/ tasks.

#### **1.4 Methodology**

To solve the above problems of current system and to achieve the objectives of the new system, an electronic site will be designed containing a group of operations available to the users according to their power.

There will be a frontal page allocated to the teachers containing a group of operations such as insertion and presentation of result. The teacher logs in the site, chooses the faculty, year, class and course name and then he inserts the students' result and the system allows him to show the result.

After all results input by teachers the system runs the process of calculating the total score and rate of all students which saves the effort and time of the department head who used to carry this operation and thus the result will be ready.

Also there is a frontal page allocated to the department head who in turn will present the result with the possibility of modification if there is any.

There will be a frontal page with the ability of modifying and presenting the result to the dean of the faculty who subsequently will approve the result which will be sent to senate counsel of the faculty to be finally approved.

After that the result will be presented to the students. The student will sign in system using his university number and a password generated by the system which makes the result presentation is easy for the students.

## **1.5 Contributions**

An electronic site will be designed in such a way as to suit the user and enable him to carry all necessary operations to extract the result with minimum effort, high precision and in short time.

The use of the educational organization of the results system makes it superior to the others.

## **1.6 Function of System**

- (a) Data base containing the faculties names and the students learning in them in addition to the courses names for each learning class.
- (b) Preparation of detailed reports.