

# Accessing a portion of MIS: Result Management System

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**Abstract--** In this recent era of globalisation and Information technology revolution, everything is done with the help of computing machine thereby creating an ease of use and reliable, portable storage system provided by the service providers all over the globe. In this regard, the internet has always been a backbone support for such online activities for e.g. ticket booking, Hotel booking and many more. Thus an attempt is made to explore the possibilities of automating the underlying manual tedious process and processing into easy automated Result Management System. In this view it is also understood that there should be a system provided by the organisation of academic deal where students/trainees can view, visualise, analyse their academic and other performances online.

The paper is focused on creating an automated Result Management system for students and administrative purpose. It also contains various test cases considering the existing examination system of Centre for Computers and communication technology, chisopani Sikkim. All, this project is developed to help the students of the institute to and also reduce the human efforts.

Background: - Usually, the data generated by organization are created in files by different departments within the organization. If the data are not kept carefully, the same data will appear on several of these files. I.e. the file contains redundant data. The effort expended in the process of computation of the students result is enormous. Hence, the need to evolve a computerized process that will effectively and efficiently stores all the information associated with the examination within the institute <sup>[1]</sup>.

## I. INTRODUCTION

Outcome, consequence, or conclusion of a problem, probe or experiment after a period of time is result. For example, when a user submits a search query in an online search engine, the online search engine will process the user's query and generate search results usually within fractions of a second <sup>[8]</sup>

<sup>[9]</sup> A management system is the framework of policies, processes and procedures used to ensure that an organization can fulfil all tasks required to achieve its objectives. For instance, an environmental management system enables organizations to improve their environmental performance through a process of

continuous improvement. An oversimplification is "Plan, Do, Check, Act". A more complete system would include accountability and a schedule for activities to be completed, as well as auditing tools to implement corrective actions in addition to scheduled activities, creating an upward spiral of continuous improvement.

Result Management System is an integrated application to automate the result publication procedure of an educational institution. It ensures that all the processes are carried out in time with no scope of human-induced errors. Efforts have been made to define the requirements exhaustively and accurately. Computer or device connected to a network (such as Internet) and ready to use or be used by other computers or devices is online. Today, the technology is growing rapidly; everything can be done with the help of internet. For e.g. reservation of the train or flights, online business, online banking etc. so, there should be a system where the students can view their results, perform certain operation like save, print etc. online. Apart from the individual candidate, their parents and relatives who wish to analyse their ward's performance from anywhere and anytime.

A database [10] is an organized collection of data It is the collection of schemas, tables, queries, reports, views and other objects. The data are typically organized to model aspects of reality in a way that supports processes requiring information, such as modelling the availability of rooms in hotels in a way that supports finding a hotel with vacancies <sup>[10]</sup>.

<sup>[3]</sup> MySQL is an open-source relational database management system (RDBMS) in July 2013, it was the world's second most widely used RDBMS, and the most widely used open-source client-server model RDBMS. The SQL abbreviation stands for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. For proprietary use, several paid editions are available, and offer additional functionality <sup>[3]</sup>.

## II. EXISTING SYSTEM

In the Existing System, Some of the Schools print the report card with the subjects name only, but the marks are entered by free hand or they enter the marks by printing i.e. after printing the results with subject's name. In some schools they even didn't print the report card with subjects. They entered the subjects name with their marks directly by free hand. In the boards like CBSE, ICSE, W.B.B.S.E they upload the result online.

## III. PROPOSED SYSTEM

Result Management System is an application which refers to examination system. It is used by the exam cell and students to manage the examination marks using a computerized system where he/she can record various actions like adding subject, adding course, adding student, adding marks.

If the Admin wants to edit or delete the attributes they will be able to perform the action. With this computerized system there will be no loss of data or no duplicacy will occur which generally happens when a non-computerized system is used.

In Result Management System, the Admin can also view the reports what are the subjects, courses, students they have added and they can also edit or delete the reports. The admin can also able to add system user or add a new admin for data entry.

To view the results, the student has to enter their roll number to see their results if they want, they can also print the result from RMS. If the faculties or student's needs to track the top 10 students of the institute, they can also able to track the top 10 students.

## IV. Methodology used

The application is developed as web based management tool, using a Relational Database Management System (RDBMS). A database management system permits organizations to efficiently create databases for different applications by database administrators (DBAs) and any of other specialists.

Database management system allows many user application programs to simultaneously access the same database that is called concurrency. Researcher also employed Adobe Dreamweaver, an Integrated Development Environment, to create the Graphic User Interface and to write the codes, MYSQL (My Structured Query Language), a Relational Database Management System (RDBMS) to create the database tables and Personal Home Page Pre-Processor (PHP), a Scripting language to communicate with and manipulate the database. The primary features of the PHP are that it is object- Oriented and a cross platform language. By cross platform, it means that the programs can run across several platforms such as Microsoft Windows, Apple Macintosh, Linux, and so on.

## V. SYSTEM DESIGN

The system is designed in such a way that the admin will be able to add subject, courses, add students, adding marks etc. If the Admin wants to edit or delete the attributes they will be able to perform the action. With this computerized system there will be no loss of data or no duplicacy will occur which generally happens when a non-computerized system is used.

In Result Management System, the Admin can also view the reports what are the subjects, courses, students they have added and they can also edit or delete the reports. The admin can also able to add system user or add a new admin for data entry.

To view the results, the student has to enter their roll number to see their results if they want, they can also print the result from RMS. If the faculties or student's needs to track the top 10 students of the institute, they can also able to track the toppers as shown in the figure.1

Use case diagram

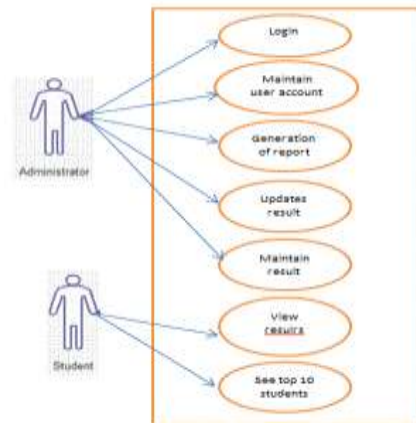


Figure: 1- Case Diagram

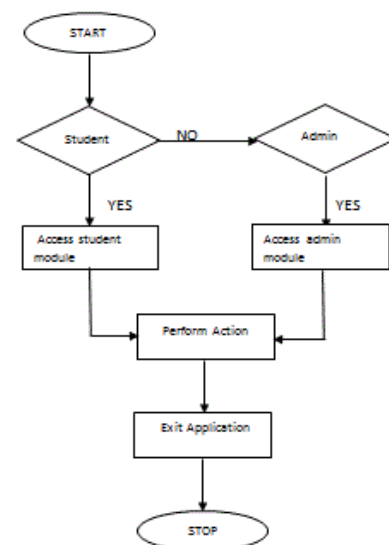


Figure 2.Flowchart

Field	Type	Collation	Attributes	Null	Default	Extra	Action
student_id	int(11)			No		auto_increment	
student_course_id	varchar(255)	latin1_swedish_ci		No			
student_rollno	varchar(255)	latin1_swedish_ci		No			
student_name	varchar(255)	latin1_swedish_ci		No			
student_father_name	varchar(255)	latin1_swedish_ci		No			
student_dob	varchar(255)	latin1_swedish_ci		No			
student_mobile	varchar(255)	latin1_swedish_ci		No			
student_photo	varchar(255)	latin1_swedish_ci		No			
student_details	varchar(500)	latin1_swedish_ci		No			

Figure3. Students table

Field	Type	Collation	Attributes	Null
marks_id	int(11)			No
marks_exam_id	varchar(255)	latin1_swedish_ci		No
marks_student_id	varchar(255)	latin1_swedish_ci		No
marks_subject_id	varchar(255)	latin1_swedish_ci		No
marks_written	varchar(255)	latin1_swedish_ci		No
marks_practical	varchar(255)	latin1_swedish_ci		No
marks_semestor_id	varchar(255)	latin1_swedish_ci		No
marks_description	varchar(500)	latin1_swedish_ci		No

Figure4.Marks table

Field	Type	Collation	Attributes	Null
exam_id	int(11)			No
exam_title	varchar(255)	latin1_swedish_ci		No
exam_etype_id	varchar(255)	latin1_swedish_ci		No
exam_month_id	varchar(255)	latin1_swedish_ci		No
exam_description	varchar(255)	latin1_swedish_ci		No

Figure5. Exam table

Field	Type	Collation	Attributes	Null
subject_id	int(11)			No
subject_course_id	varchar(255)	latin1_swedish_ci		No
subject_semestor_id	varchar(255)	latin1_swedish_ci		No
subject_title	varchar(255)	latin1_swedish_ci		No
subject_description	varchar(255)	latin1_swedish_ci		No
subject_code	varchar(255)	latin1_swedish_ci		No

Figure 6. Subject table

## VI. TESTING

### TEST CASE 1:

Title: Validation of Password

System: Login Page

Input instruction: Login successfully

Output: Redirection to next page



Figure7. Login Page

### TEST CASE: 2

Title: Storing Marks

System: Storing Page

Input instruction:

Logging result of students

Output:

Marks should be saved in the Database

Figure 8. Result page

### TEST CASE: 3

Title: Logout

System: Admin page

Input instruction: Logout Successfully

Output: Redirection to Login page



Figure9. Logout page

### TEST CASE: 4

Title: Retrieving data

Input Instruction: Fetching of data

Output: Data should be successfully retrieved

Figure10. Result page

## VII. CONCLUSION

Result management system makes entire process online where there will be ease of work, World Wide publication, ease of storing data, Result can be accessed from anywhere around the world, Better efficiency of data flow. No Data loss.

## **VIII. Future Scope**

There is a future scope of this facility that many more features can be added such as group chat where students can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfils each users need in the best way possible.

## **IX. REFERENCE**

- [1]. Amar, J. S. and Mohini, B. (2009). Single Portal for Integrated Examination System. Journal of Emerging technologies in e-Governance, (pp. 287-293).
- [2]. Barrett, S. (1999). Information's Systems: An Exploration of Factors Influencing Effective Use. Journal of Research on Computing in Education, (Vol. 32, No. 1, pp. 4-16).
- [3]. Brian, P. (2009). Oracle Database 11g: PL/SQL Fundamentals, (Vol. 10). Redwood City, California: Oracle University Press.
- [4]. Ekpenyong, M. E. (2008). A Real-Time IKBS for Students' Results Computation. International Journal of Physical Sciences, (Vol. 20, No. 3).
- [5]. Eluder, A.A. (2011). The Design and Implementation of Student Academic Record Management System. Research Journal of Applied Sciences, Engineering and Technology, (Vol.3, No. 8, pp. 707-712).
- [6]. Emmanuel, B. and Choji, D. (2012). A Software Application for Colleges of Education Student's Results Processing. Journal of Information Engineering and Applications, (Vol. 2, No.11).
- [7]. Ezenma, A. A., Emmanuel, B., and Choji, D. N. (2014). Design and Implementation of Result Processing System for Public Secondary Schools in Nigeria. International Journal of Computer and Information Technology, (Vol. 2, No 1, pp. 121-122). Retrieved from: [http:// www.ijcit.com/](http://www.ijcit.com/)
- [8] <https://en.wikipedia.org/wiki/Result>
- [9] [https://en.wikipedia.org/wiki/Management\\_system](https://en.wikipedia.org/wiki/Management_system)
- [10] <https://en.wikipedia.org/wiki/Database>