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Research on Online Institute Solution Using RDBMS

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Abstract: ***implementation of student performance monitoring system is the web application on which the teacher are allow to insert the marks of the students obtain in the college exams which are visible to students through their login into web application. Also, parents are allowed to see student's performance analysis as well as complete fees status after getting login into this system. In this project we have provided user authentication as per role of work such that they can access only allowed portion of the system. These user and their roles will be assigned by only admin. Admin will decide which user should be activated or deactivated. Only admin will have right to give authority to users depending upon their role of work. The performance of student can be demonstrated subject wise and test wise graphically so that it can be easy to get proper analysis of student performance.***
Keywords: monitoring, graphical representation, fee structure, subject wise marks, admin.

I. INTRODUCTION

Our project is related to basic conceptual components associated with the development and implementation of proper information of the students marks for the academic institution. Section one presents the details of student's marks, showing that marks to the students. This project is aimed to design a instant display of the result. It can streamline the administration of an institution in all areas and involves many administrative work and co-ordination. This application provides updating by the authorized person. Here you will get the latest information about the students updating can be done from desired pc and application designed for assisting the student examination marks as unit test and sessional also the university examination mark sheet. This is online project hence, students can access it from anywhere but the administrator won't be able to access it. He can only access from which college wants. We are providing security to access data for the new user, student and teacher.

This project allows to complete solution to any educational institute's exertion such as fee collection status, accounting receipts, information regarding expenses such as voucher entry, journal entry etc. Admin can be able to see complete fee status such as total collection, pending as well as received which can be demonstrated class wise graphically. This project also allows generation of bonafide certificate of students. In this manner it is a complete solution to any institute's vital needs.

II. SYSTEM ARCHITECTURE

Our project contains various user roles such as admin, teacher, student, parents, clerk, etc. Each role has the different functionality according to their work. Admin is going to handle all the users by activating or deactivating their work, teacher is going to handle the performance of the student; accountant is going to handle the account section of the student regarding their fees structure etc.

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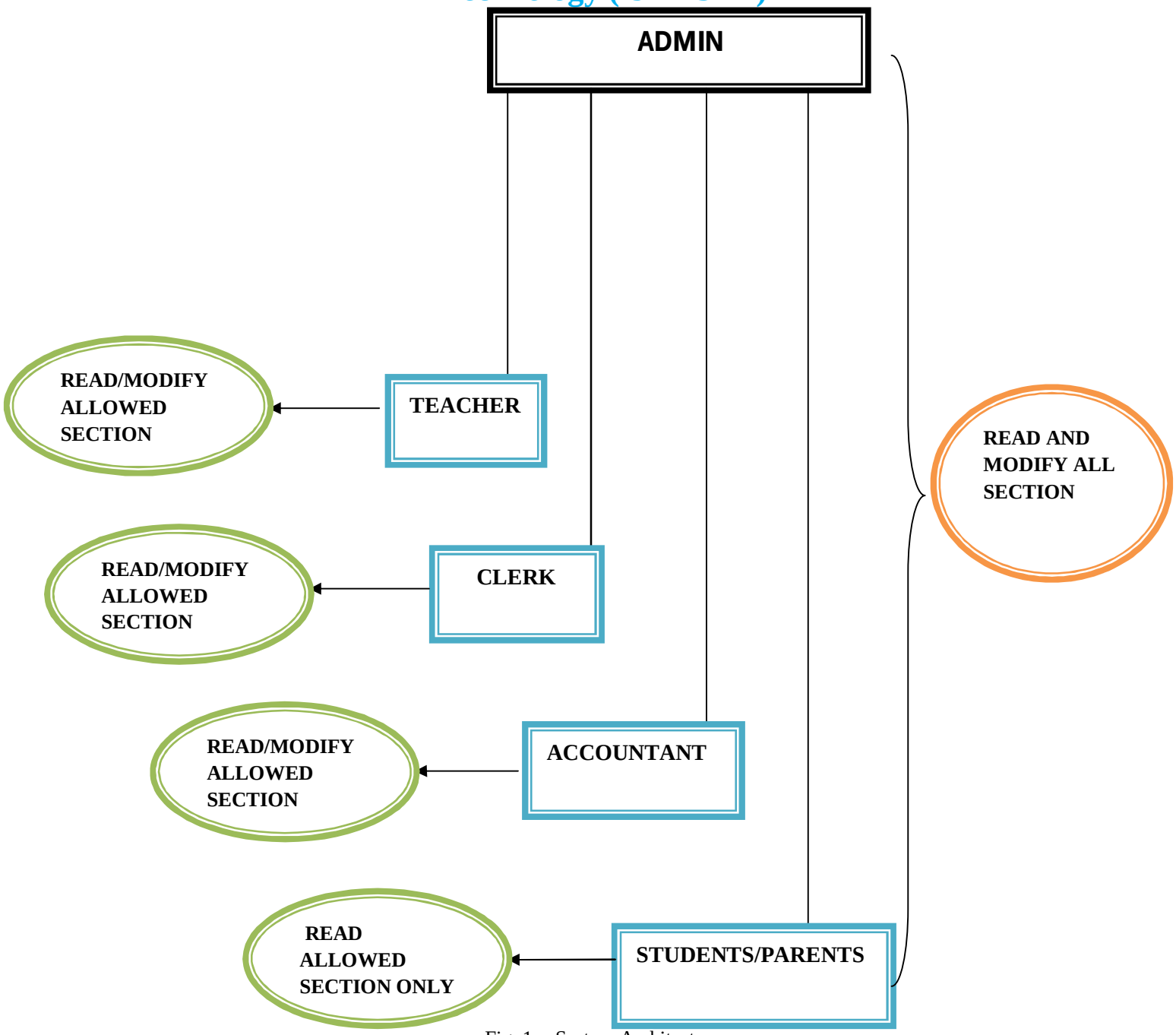

Fig. 1: - System Architecture

III. EXISTING SYSTEM

With the quick evolution of information and communication technologies and dissemination of computer use, most of large and medium size organizations are using Information System (IS) to implement their most important processes. Decisions are taken based on administrators experience and sometimes based on historical facts stored in different information systems. There might be chances of data duplicity in traditional database management system. Errors may occur during transactions management and concurrency which is not good to handle large system.

In our project we are going to manage student's marks and their fee status and expenses reports too. This project system provides the simple access to the student's college marks, fee management and voucher entry. Nowadays, a need arises to create multiple user system allowing each user to access system as per their role provided by admin at any time and from any place in order to avoid

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time delay and for smooth working culture. But in old system, it was not the case and hence users as well as admin were facing problems while updating the system or database as they had to update system at particular time allotted and from particular machine due to which they did face time delay as well inconsistency in system updating. It was difficult to maintain proper record and consistency in database too. Hence it is a need of time to use online web application so that admin as well as any user can access the system at any time and from any place after logging into the system as per user role provided to him by admin.

IV. PROPOSED SYSTEM

System development planning is the solution to the creation of new system. This phase is composed of several systems. This phase focused on the detail implementation of the feasible system. Emphasis on translating design specification to performance specification. System design has two phases the development logical and physical design.

In our project various user is going to perform according to their role, such as admin, teacher, student, clerk, accountant and parent. Their work as per their role is as follows:

A. Admin

In our project admin's role is important as he handles all the other users such as teacher, student, parent, accountant and clerk. Admin can also provide a accessibility to other user or he can also deactivate the accessibility of any user as per the requirement.

B. Teacher

Teacher has the access to look out the student information regarding marks of the subject. Teacher can have the access to read as well modify the data.

C. Clerk

Clerk is another user role in this project who can manage the changes occurs in the institute regarding the classes, subjects. Student bonafide section is also be handled by the clerk. Clerk can read or modify his allowed section.

D. Accountant

Accountant is going to handle the whole information about the student regarding their fees status. Accountant can read or modify his allowed section.

E. Student

Student can see their marks subject wise and class wise. Student can only read their allowed section, they cannot modify their data.

F. Parent

Parent can see the student performance and can also see the fees status of the student. They can only read their allowed section.

Above are the modules of our project which is going to work according to their task or their roles. Our project is showing the graphical representation of the student marks, their fees status etc. So that it becomes easier for the students, teacher and parent to see their performance. Below are the simple criteria of graphical representation of student marks and fees status.

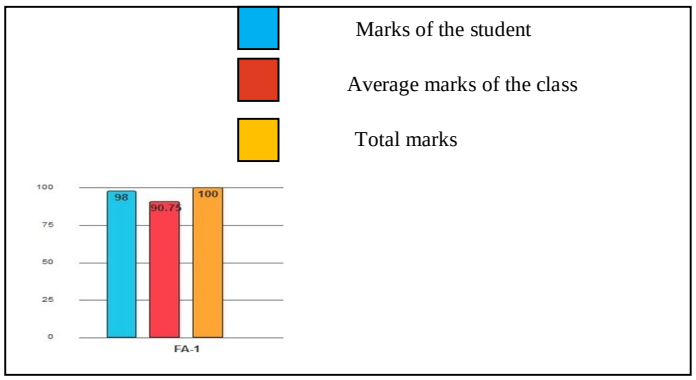

Fig. 2:- Graphical representation of the student's mark

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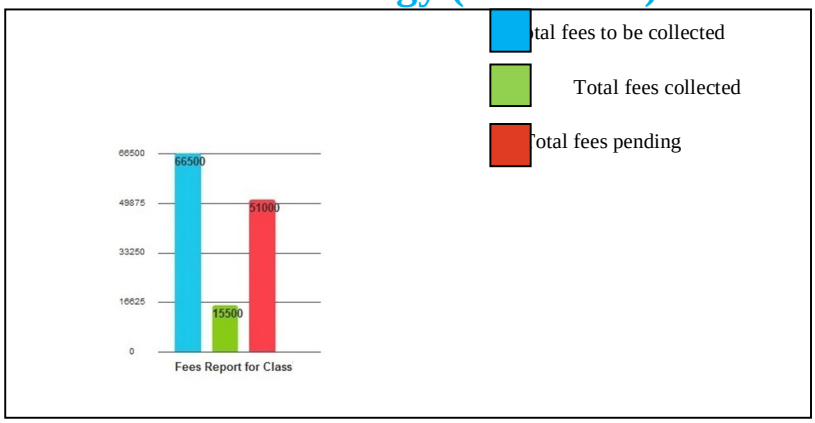

Fig. 3: - Graphical representation of the fees collection

Here in above figure (a) FA-1 is the test name where blue bar indicates the individual mark represents by the student, red bar indicates average marks of the class and the orange bar indicates the total marks.
Similarly, in fig (b) it shows the graphical representation of the fees structure where blue bar indicates total fees to be collected, green bar indicates total fees collected and red bar indicates the total pending fees.

V. CONCLUSION

Student's performance analysis displayed instantly and graphically subject wise.
Since performance analysis can be display graphically hence it becomes easy to analyze any student's annual performance.
We are making our project web based hence, anyone can access it from anywhere, anytime.
This project is very much helpful for the parents as they can monitor the students' performance as well as they can also see their fees status from any place and anytime since its web based application with the help of internet.

VI. FUTURE SCOPE

In future we are trying to add more features in our project as per our requirements. Following are the some features that we are going to add in future.
Implementing the student details using DWH and DM has tremendous potential for future enhancement and growth. Various encryption algorithms like DFS algorithm, AIDE algorithm, various hashing algorithm for security purpose.
.In future we can extend that project by adding the function that manages attendance, whole information of documents that is official records.
This project can be used to provide the virtual tour of campus by adding college maps.
Lectures can be able to attach their notes in their blogs to make students easy to get it.
Some of the features that is acceptable here i.e. connecting to other 'online college System 'provides more security by encrypting the user and password.

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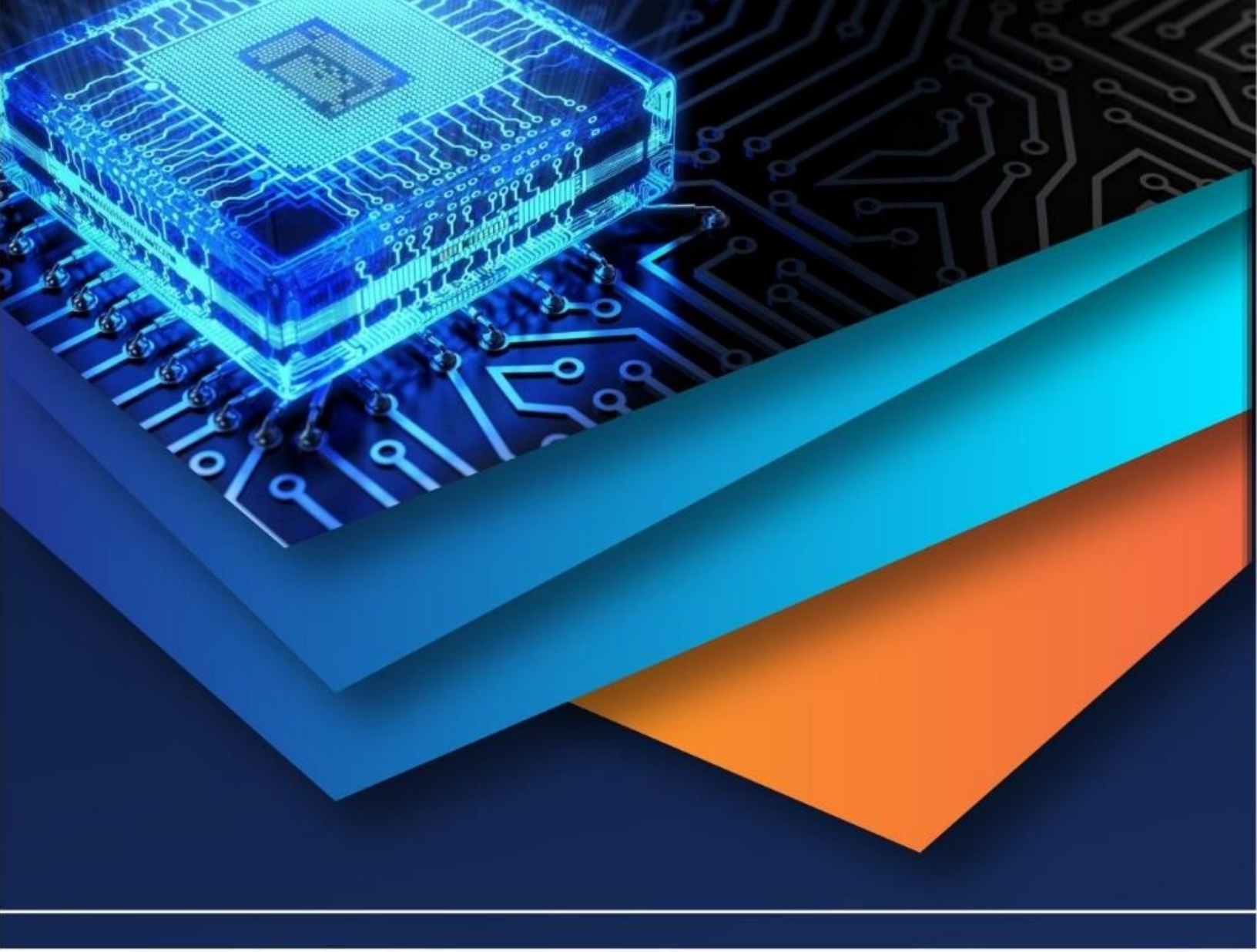

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