Review On Usage Of

Erp In Secondary Education

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Abstract: - The ERP system is the best solution to bring the educational system to the higher level. The use of the ERP system is not only used in the business level or company level but also we can use it in the educational institutes such as schools or colleges. This paper will try to provide the review on use of ERP system in education. ERP's architectural model can help the analysis and design for business process at the school level. ERP's conceptual model could help the ERP's school application developer to understand the ERP's system clearly and to develop it easily.

Keywords: - ERP, ICT, Integrated system, School management.

INTRODUCTION

In today's competitive world, to survive the competition one has to manage the future. And managing the future means managing the information. In order to manage the information organization has to make the information technology and communication (ITC), because when there were small schools having less no of students and staffs then managing the details about all the school can be done by and single person. But as there is increasing the no of schools and also the no of students and staffs, at this stage the management gives the different functions to the different persons. This is becoming hard to that management to manage all the data of the schools or colleges. Because of this reason and also to bring the education system to the higher level the best way is to adopt the information technology. The information technology (ITC) has the higher priority in education and ERP is one of the examples of the information technology (ITC).

[1] What is ERP?

ERP is the abbreviation of enterprise resource planning. Enterprise means the group of people with a common goal, which has certain resources to achieve that goal. These goals are having some key functions to perform. The resources are that all things which are required to run the enterprise such as money, materials, manpower etc. And planning is done to ensure that nothing goes wrong. Planning is putting necessary functions together.

ERP offers solutions for the business functions together. It is the set of tools and processes that is used to integrate departments and functions of the company in one computer. It uses a single integrated software program to integrate all the business functions. Now a day's the use of ERP system is not only for business processes but also for school management to store the details about the students, parents, staff etc.

[2] Use of ERP

The ERP system in school will create more benefits to establish the center of information. By using ERP system the school's management do not have to face the problems such as loss of the data, or is anybody wants to search for a particular student from years ago then it will be easy for that individual to search the data for that student. ERP is useful for elimination of data which will help the school management to eliminate the redundant data and to delete the wastage of the data. It also integrates (takes whole data together), automates (operates the data automatically) and simplifies (performs the data in simple way) the data. This all the things are helpful for school in their management so it will be easy and time consuming process to use the ERP system in schools and colleges for keeping their records.

[3] Advantages of ERP

a) **Business integration**: - ERP package integrates the information processing and automates data updating between related business components.

b) **More focus on education**: When most of the time is saved from taking one-to-one attendance in class or filling up the mark sheet after every exam, a lot of time is saved to be invested in what is more important-teaching.

c) **Flexibility**: - Multidimensional environment such as language currency accounting are covered in one system which makes the ERP system more flexible.

d) **Secured data**: - Data or information stored in web servers are more secured that those stored physically in shelves. Storing information and data stored by ERP software in servers have backup systems, so that if there is data loss then it will not be problematic.

e) **Use of latest technologies**: - ERP vendors use the latest development in the field of information technology.

f) **Cost effective**: - The most prominent advantage of using ERP in education is that it is cost effective. By saving on the amount of man hours will help you save so much on finance. When this management is done online, a lot of cost is saved on the finance sector.

REVIEW ON USING ERP IN EDUCATION.

Many organizations around the world have been implementing ERP system to have a uniform information system in their business and to reengineer their business processes. Many operating and manufacturing organizations have been able to achieve high level of performance in today's competitive environment by using various IT tools. According to Wallace and Kremzar (2001), enterprise systems that link customers and suppliers of a supply chain computer , using proven success for decision making, and coordinate sales, marketing , operations, logistics, purchasing, finance, product development, and human resources, using proven success for decision making, and coordinate sales, marketing, operations, logistics, procurement, finance, product development, and human resources. It manages all the enterprise processes in a coordinated method, and provides timely and reliable information in order to senior management to make the right decisions in a timely manner. It isn't an information system that's with functionality of business, data, and for the generation of reports. It is complex, expensive, and difficult to implement.

According to Y Kurniawan and Devyno Luhukay, ERP the conceptual model for schools can be used as a guide design for school ERP system. In this paper, the authors introduce a conceptual model of ERP for schools based on school business processes functionality. It includes new student's registration, scheduling and preparatory schools, teaching and learning activities, evaluation and graduation. The Enterprise Resource Planning is the terminology of information system that supports the transaction or day to day operations in the management of company resources. At this paper, the authors represent the conceptual model of ERP with UML (Object oriented modeling techniques). By using this conceptual model, the developer of ERP for schools will gain some benefit. Conceptual model of ERP implementations that follow the design and can be used throughout the development of the system, because there are boundaries between analysis, design, and implementation. ERP's conceptual model will simplify the ERP system. Use case diagrams are used to model the functionality of the system that describes the interaction between the systems with the actors. The purpose of the depiction of the use case diagram is used to portray the context of ERP systems. In this study the authors describe two systems use case diagrams that define high-level processes in the School ERP system as a whole (Fig. 1) and the low-level use case diagram (Fig. 2). In Fig. 1, the conceptual model of ERP split into four use case that represents the portal of the ERP system: staff desk, parent desk, student desk, and alumni desk.
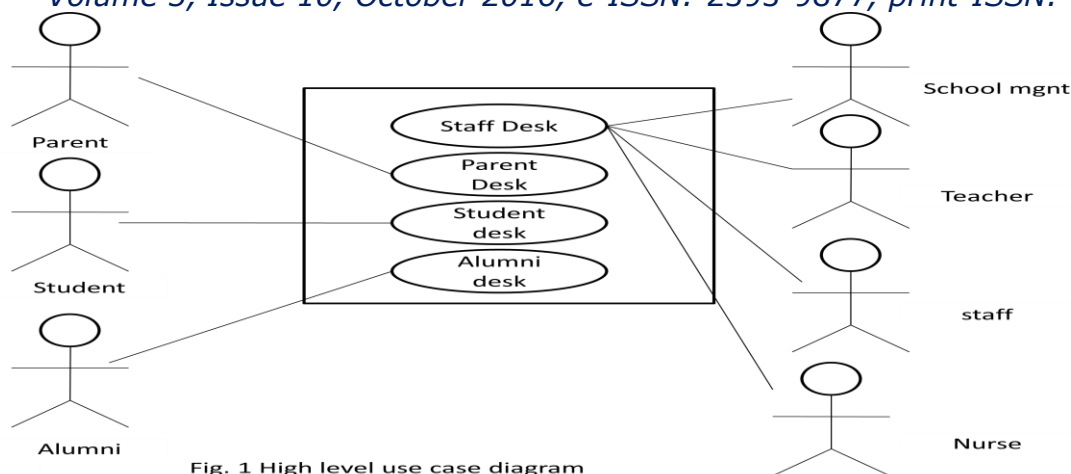
Fig. 1 High level use case diagram [3]

On low-level use case diagram describes the system use cases that define the details of each sub-system business processes in school activities that interact with the users of the system (school stakeholders). Information System Model designed for the use of Multiuser purpose; information system as the school management software can be accessed by interested parties at school with different privilege. Basically information system is integrated school administration software that includes a few basic modules that are reflected from each use case that is required to help an educational institution in the provision of timely and accurate information.
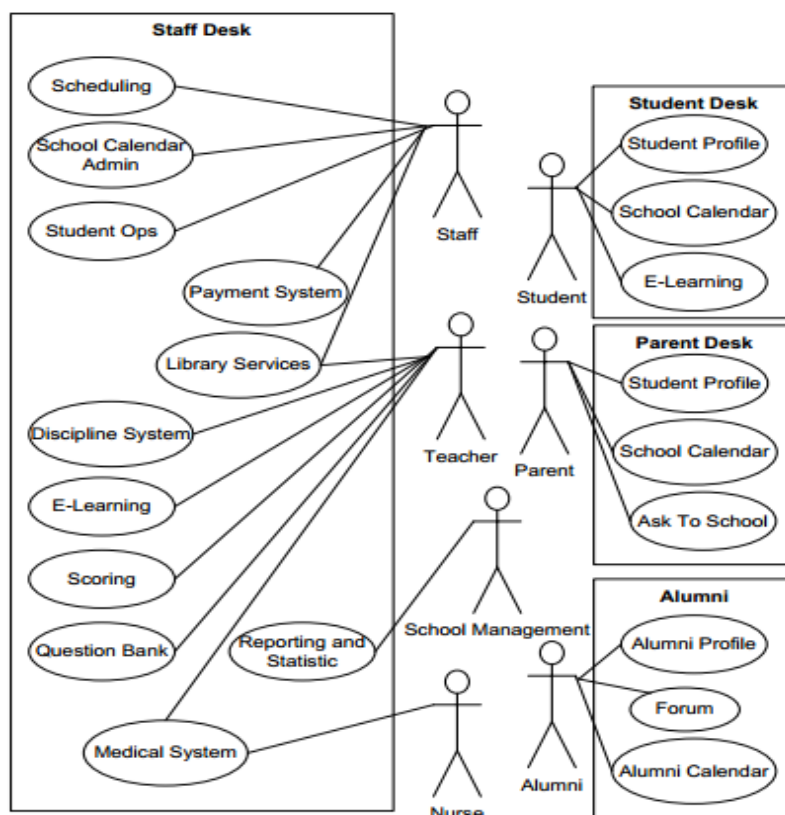

Fig. 3. Low level use case diagram. [3]

CONCLUSION

Conceptual model of ERP for schools described in this paper with the UML notation (4 +1 view approach) as object-oriented modeling techniques can help the ERP system application developers to understand the ERP for school clear and comprehensively. ERP conceptual model is the result of analysis and design that can be used for development of ERP software at school integrated way. This model can help simplify the existing functionality in the ERP system, so that the process of identifying the needs of the ERP system becomes easier to do. The model of information system designed for the school in order to utilize the full potential of information technology sophistication. This Model of the information system will provide school management administrative solutions by utilizing computer technology, communication technology and Internet technology. School information system is expected to be a reference of the school to improve the quality of their schools with the establishment of good communication between teachers students and parents because of the availability of service of learning process information that "real time" which can be accessed easily via the Internet. We can summarize the results as per the ability to execute and completeness of vision in the following fig. 3.
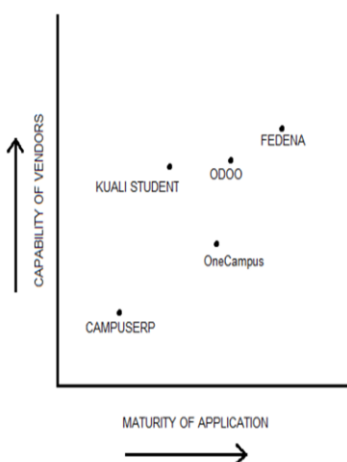

Fig. 3 Summary of Educational ERP in Market

[2]

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