



An Effective Approach to Automate ERP Educational System for Multiuser Environment

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Abstract:

ERP stands for Enterprise Resource Planning and it is a tool which is mainly used in all institutes. ERP systems are the largest software applications adopted by universities, along with quite significant investments in their implementation. However, in an Educational Institute there are various sections and each section handles all Employees information and institutional databases. These sections are interlinked with each other. The main aim of this ERP system is to change Educational Institute system from manual work to automated which will be centralized as well as web based. This system is very useful for easy user interface and utilizes powerful database management and retrieval and manipulation of data. The main goal of this software system is to manage all the activities involved inside an Institution with lesser effort.

Keywords: ERP system, case study, Modules, ERP survey, Management System, Multi user environment.

I. INTRODUCTION

In this computer age everyone wants fast output. So while using ERP software it is our duty to build such a ERP system for institute to simplify their working. Enterprise Resource Planning (ERP) is a planning which is used by different educational institutes for maintaining and storing their employees' data. Each section or department uses ERP system tools for maintaining separate design and database. Enterprise Resource Planning combines all the requirements of the organization together in a single that runs off a single database so departments can share and communicate information with each other. ERP system helps to create user friendly interface. Once the employee of the institute fill the details into the system there is no need for persons to deal with separate sections. Enterprise resource planning is management system which is used to manage departmental data of business. The applications that make up the system share data across the various departments that provide the core data.

II. Limitation

Implementation Of Cost: Cost is also important factor in Enterprise Resource Planning system. Software cost decides the total costs of ERP and its implementation system is depend upon the software cost, external services and internal costs. The license of the software and the price of that license decide the software cost. Flexibility and complexity of the ERP system and advanced function are shown by the service cost of the system. The internal service depends upon the companies, institutes, universities and their projects.

III. Methodology

ERP (Enterprise resource planning) systems or integral information solutions. Their main aim of this project is to connect all education stream units and all colleges' functions into a unified computer system that satisfies the needs of the whole organization. By implementing such system users expect to improve organization efficiency and, consequently,

to improve the quality. The benefits of this system is to reduce the paper work and manual work also and time saving. Methodology give the results will measure the performance of the new (ERP) Enterprise Resource Planning systems and what user factors affect a successful implementation. Methodology that have been found to improve the chance of a successful ERP implementation. The companies have been selected on the basis of the company size, branch, transportation and storage, information and communication. There are several methods for handling the implementation & the consequent conversion from old to the new computerized system. The most secure method for conversion from the old system to the new system is to run the old & new system in parallel. In this approach, a person may operate in the manual older processing system as well as start operating the new computerized system. This method offers high security, because even if there is a flaw in the computerized system, we can depend upon the manual system. This outweighs its benefits.

IV. RELATED WORK

Our system that is Enterprise Resource Planning systems provides user friendly interface for educational institute. Our system will assign id and password for every employee of the institute. Upon verification of id and password staff can log into the system. After successful login, the system allow to user to access the provide option such as staff profile, enrolment option which allows staff members to enroll student for any unit, student list option which provides access to list of student, performance option which maintains records for student performance. The scope of this system to provide an overview on process mining. The process mining is the process of discovery; enhancement and compliance checking are especially relevant for audit purposes.

V. MOTIVATION

This is motivated by the increasing adoption rate of ERP in Higher Education System. Even though we have been studies

about the challenges and critical success factors for ERP implementation. Improved information access for planning and managing the institution.

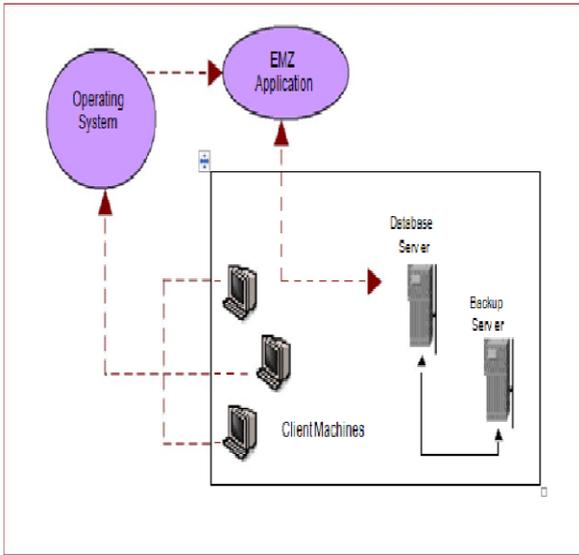


Figure.1. Internal Data Structure

The main advantages of ERP for higher education institutions are,

- Improved services for the faculty, students And employees;
- Increased income and decreased expenses due to improved efficiency.
- Reduce or eliminate manual processes.
- Enhance strategic decision making and planning capabilities.
- Establish a self-service environment for employees.

VI. PROPOSED SYSTEM

In recent years, several user studies have examined specific usability problems in the field of Enterprise Resource Planning (ERP). These studies focused on different branches, various usability aspects, and several user groups. In spite of this diversification, some common and essential usability problems have become apparent, which are related to system complexity and difficulties in finding required information. Therefore, this project first addresses the question of whether the identified usability problems are still present today. Second, it extends the research focus to additional considerations, such as the role of menu type, uncertainty in system usage or the support in problem situations. These systems consist of different types of software modules that support institute for a real time activities. Multiple modules are designed to support functions from teaching and non-teaching staff level. As shown in the Fig(a) , we are developing five different modules. These modules will help the institutional authorities to keep the track of the employees and maintaining their records. All these records will be stored in a single software instead of manual work. As a result of

which the chances of losing employees data decreases. It is easy to implement and also a low cost system.

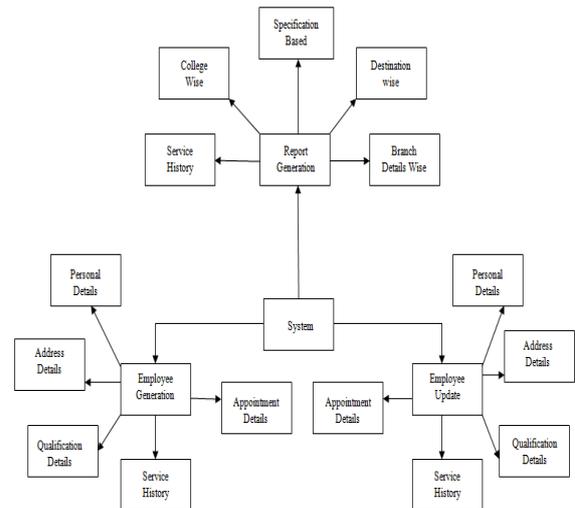


Figure.2. System Architecture

VII. CONCLUSION

Based on the case studies findings, several conclusions were formulated and are presented below. The PDEA’S organization are seeking the benefits of ERP systems as it includes much easier access to reliable information by integrating disparate legacy systems and . This software helps to maintain all types of details of employee of an institute and also keeping track on them. But by developing this web-based application the administrator can be able to save his valuable time.ERP system implementation is so much useful for eliminate or reduce or the need for shadow system or backup data and increase data integrity, reliability and validity.

VIII. REFERENCES

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