Review: Institutional Quadro: College Based Educational Portal

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ABSTRACT

There are many departments of administration for the maintenance of college information and student databases in any institution. All these departments provide various records regarding students. Most of these track records are needed to maintain information about the students. This information could be the general details like student name, address, performance or specific information related to departments like collection of data. All the modules in college administration are interdependent. They are maintained manually. So they need to be automated and centralized as, information from one module will be needed by other modules. This project is useful for easy user interface. The system utilizes the powerful database management, data retrieval and data manipulation. This project provides easy way for managing the data than manually maintaining the documents.

Institutional quadro gives a straight forward interface to support of student data. The creation and administration of error less, exceptional data in regards to a student scholarly profession is discriminatingly paramount in the colleges and in universities. Institutional Quadro manages all sorts of student details, academic related reports, college details, fee details, faculty, results, batch details and other resource related details too. It tracks all the details of a student from very first moment to the end of the course which could be utilized for all reporting purpose, progress in the study, completed semesters, years, coming semester year curriculum details, fee details, project or any other assignment details, final exam result and all these will be available through a secure, online interface embedded in this Quadro.

1. INTRODUCTION

Intuitional Quadro is a system which links the overall entities in the college environment. It is a computerized system which is developed to facilitate the general administration system to manage the various information of student involved in college so that college can access accurate information quickly and easily whenever required thereby improving its operational efficiency and

effectiveness. The world of education is changing, so are the ways of imparting them. This is a web-related system that permits us to get the entire knowledge regarding the college, students, faculties etc. Here we would gain the recent and detail knowledge regarding the students and college campus.

This general application planned for aiding the students of an organization for knowing the details on courses, administration, facilities, events, hostels, faculties, placement and all other information regarding the college and the college campus. It also allows the faculty to know his time-table, upload assignments and issue circulars to the students. The administrator would maintain the accounts of the student and staff and upload the current information regarding the campus.

Institutional Quadro synchronizes the working of all the departments. It looks on all aspects of a college, its students, faculties, departments, marks and other co-curricular activities. It is the easiest way to manage all functionalities of a college. It is a simple yet powerful one joint integrated platform that connects all the various departments of an institution like Student, Examination and Results, Library, Transportation, Administration, Staff details, Online fee management and many more specialized modules.

Main aim in developing this system is to provide an easy way not only to automate all functionalities of a college. Institutional quadro provides one attractive environment where one can manipulate data and information about students and staff easily. Institutional quadro is also useful for schools, universities and training institutes. The system is user friendly and solves the most complex tasks in educational administration. It fulfills all the entire administrative and academic requirements. Institutional Quadra has education's most flexible and interactive scheduling function, thus meeting the communication and information needs of the entire college community in real time.

Institutional Quadro is fully loaded web-based Software. Web based computing method helps in saving money, time, and infrastructure with the help of this software you can manage your entire work hassle free. It's fully integrated software suite, user friendly and tailor-made software which is designed as a complete suite of all modules and features. That's make it more versatile. Its versatile scheduling system allows you to administer all aspects and functionalities of institutional organizations. It gives a cutting-edge performance and solves the most complicated tasks and also connects all the Staff, Teachers, Students, and Parents. It fulfils the entire administrative requirements in real time.

The objective of the institutional quadro is to provide comprehensive view that provides complete control that allows you to keep a track of inside out activities and vital information and pushes the staff to execute their work on time and in proper method. As

this software helps in managing Student Administration, Fee Management, Classes, Subject, Enquiry Management, Attendance, Examination, Results, Library, Canteen Management, Expense Management, Hostel Management, Placement Cell, etc. It keeps your data private, secure and backed up with the help of firewall, SSL encryption, dual authentication password-protection, and actively monitored server the way safer than vulnerable local computers.

Institutional Quadro is prepared to maintain the day to day operations in a leading college. This software help them to maintain the student and staff. So the maintain become easier. This is a generic type software suitable to all colleges. This software have all the modules to manage college transaction. Seperate division is provided to maintain admission process. Student management, staff management etc. The main goal of these quadro is to maintain records of college.

This software is helpful to the colleges to maintain the student and staff management. This software provide them very easier option to search for the student details, his fee status, attendance, test marks, test result etc. At present in colleges all records are maintain manually. There are thousands of student joining each year as the years goes then the number of students also get increase, for the staff to maintain all these students records is very tedious and time consuming.

Update fee, test marks, test result all these need to be done in time to achieve college management need to recruit more peoples. To solve this problem institutional quadro is prepared which helps the management to maintain the records accurately.

2. LITERATURE SURVEY

Review of literature is an early step for conducting research. It enables to avoid the duplication of research work and broadens the understanding of the research problem. Various research studies related to the present research problem "A Study of the Use of Libraries of Colleges of Education in Punjab" has been conducted in India and other countries of the world (2005). These studies relate to the different aspects of libraries particularly college libraries, including library administration, finance, document collection, library staff, services, physical facilities, use of libraries by students, research scholars and teachers, their information seeking behavior, use pattern and user's satisfaction with the resources and services of libraries, etc. In this chapter, a review of the selective and useful studies related to the research problem has been attempted.

Many institutions have their own management system which provides some facilities online but they do not provide all these facilities. In recent years, there has been an enormous growth in the areas of online courses and virtual schools, customizing instruction to the meet the needs of individual students. According to the Education Week Research Center (as cited in Fox, 2005), 22

states have established state virtual schools and 16 states have at least one cyber charter school (Technology Counts, 2005). During the 2003-04 school years, the Florida Virtual High School became the state's 73rd school district. This is the largest state-sponsored online high school and gets state funding through per-pupil costs, just like other districts (Technology Counts, 2005).

Market Data Retrieval (as cited in Fox, 2005), a research firm that tracks educational technology use and provides evidence of the ongoing integration of technology into schools, found that 25 percent of public schools provide distance-learning programs for students. Assessments can now be taken online, providing students, teachers, and parents with instant feedback. Technology has provided a huge improvement in the areas of tracking progress, identifying needs, and effectively designing and managing instructional programs (U.S. Department of Education, 2004). Technology has dramatically changed the world outside our schools and is now changing the learning and teaching environment within them.

ISTE and Microsoft have upgraded a NETS online technology assessment to evaluate the technology literacy of middle school students (Felix, 2005). This free online toolkit consists of 12 assessments covering a wide range of applications and aligns with the NETS performance indicators. Each assessment contains five to 10 activities measuring technology skills related to a project or problem. Russell (2003a) indicates that

assessment is a critical component of effective teaching and learning. It provides student awareness of what knowledge and skills are important, and help teachers, supervisors, and administrators recognize areas needing extra attention or an alternative teaching method. Assessments can identify the need for curricular modifications and can document benefits for those needing verification of effectiveness.

Telecommunication in institutions can be done using email, Internet/Web, intranet, wireless, mobile Web applications, Web-conferencing, searching, downloading, managing posting information. In recent years, there has been an enormous growth in the areas of online courses and virtual institution, customizing instruction to the meet the needs of individual students.

Ubiquitous computing and the emergence of Web 2.0 technologies have left an indelible mark in the academic arena, particularly in how courses are designed and delivered. Discussions related to Course Management Systems (CMS) or Learning Management Systems (LMS) pervade the academic discourse on college campuses today. The discourse among faculty often presents opinions of two minds: the first embraces the CMS and is eager and willing to leverage this resource. However, the second is more resistive or skeptical towards the use of CMSs and course management may challenge its academic merit. Regardless, the fact remains that most all colleges and universities are tied into some type of CMS,

the most notable and, incidentally, the most widely adopted, is Microsoft's Blackboard. Perhaps no other innovation in higher education has resulted in such rapid and widespread use as the CMS (Harrington, Gordon, & Schibik, 2004).

By 2002, over three-quarters of all colleges and universities in the U.S. had adopted a CMS and nearly one-fifth of college courses used a CMS (Campus Computing Project, 2002). But the rapid adoption and development of such tools poses several problems when it comes to classroom practices and pedagogy. Are instructors using Blackboard or is Blackboard using instructors? Likewise, frequent changes and updates frustrate a large percentage of faculties who are trying to "keep up". But the changing digital landscape of higher education demands that such systems thrive and for this to occur, instructors must have at least a working knowledge of these systems and, moreover, how to effectively integrate features into their own courses. But before examining possible solutions to this problem, it is important to first define a Content Management System and describe the core components to such a system.

In a recent issue of educators' tech trends Andri Ioannou and Robert D. Hannafin (2008) define a Course Management System as "software systems designed to manage course content and course activities to design, deliver, and manage an online course." While no longer relegated to online or distance learning, most systems offer users standard tools such as course content areas, discussion forums, assignment drop-boxes, and a grade book among many others.

There are many kinds of course management tools, and they all function a little differently, but two main companies have dominated the CMS market: Blackboard and WebCT.

Each is now being used by over 2,000 different academic institutions (Arnone, 2002; Pollack, 2003), but in 2006 these two companies merged and now collectively control the vast majority of the CMS market. As this system has grown in both popularity and use, there has also been some research into the potential impacts that using these tools may have on learning outcomes (Hutchins, 2001; Klecker, 2002; Massimo, 2003; Morgan, 2003; Pollack, 2003; Vessell, 2001; Yip, 2004). However, there is little research directly studying the adoption and diffusion of CMS technologies in higher educational contexts and what research exists is narrow in its scope.

3. DISCUSSION

In case of manual system they need a lot of time, manpower etc. Here almost all work is computerized. So the accuracy is maintained. In early Days College system used to manage all the details manually which slows the operation of storing, retrieving of records from the files, also led to drawbacks like data redundancy and inconsistency. This project is based on carrying out various tasks which goes under college management. It will control all activities for a particular college. To handle all the tasks, system has been divided into different module.

In the existing system the manual process receiving data's from student and staff details are done through manual records. These

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records are entered in manual process. In these process it takes long time, separate workers are needed to maintain the database. All the college details are stored via separate database. It will take long time due to this process time waste, money waste etc. In this process it is very difficult to maintain the fees and accounting reports of college in proper way.

The main objectives of the existing system is to provide a user friendly interface. The system which is proposed, now computerizes all the details that are maintained manually. Once the details are feed in to the computer there is no need for various persons to deal with separate section. Only a single person is enough to maintain all the reports. Thus the security can also be given as per the requirement of institution. Large volumes of data can be store with case maintenance of file is flexible records store data updated now and then. Reports can be generated with case accurate calculation.

In terms of business to save the time and resources the new system will take less time in entering the data, processing it and getting its output. Fewer resources will be used as no large registers, files, Ledgers, pens correctors will be needed or used. To make the processing faster less time will be taken to process the data. This will help to do more jobs in less time. To make the system economical once the money is invested in the system, no further expenditures will be made. While on the other hand, currently the new

system needs to invest a huge sum of money when registers, files, pens, etc are bought.

To reduce the number of workers after the system will be computerized only a single computer operator will be needed to operate the system while now more than one workers work in the system. To reduce the space being used every data will be stored in the computer memory whereas now it is stored in registers and files which are then stored in bookshelves or cupboards and they need a large space. To reduce the work load as the new system will be computerized, the database will be automatically updated at the time of entry. Everything will be done automatically just by clicking few buttons. There will be no need to maintain any files or registers.

In computer-related terms to make it easy to search any record it will be much easier to find particular record rather than opening such huge files and finding a single record from them. To keep the data secure the data will be much secure from any unauthorized access. It will be made secure by using passwords and by taking other security measures. To edit the records and update the database easily Records will be easily edited and the database will easily be updated at the time of entering a record.

To make the backup easily computer systems use hard disks, compact disks, USB's and other means of storing the data so it is very easy to have a back of the system. To minimize the duplication of data there will be

no duplication of the data as the computerized will be used. To make the system user friendly the system will be much more easy to use and the operator will feel no difficulty.

Today all the work at the time of admission of the students is done manually by ink and paper, which is very slow and consuming much efforts and time. It is required to design a computerized system, to speed up and make it easy to use system. The administrator would maintain the accounts of the student and all authorities related to college. The details are given to admin so all the sections work under the observation of the admin. By reducing those drawbacks we create a web based application for managing the college institution.

4. CONCLUSION

This type of system can be used to manage the data of all type of educational institutes. The system reduces the manual work which was previously being done in the colleges. This system will work on the network. Students get their desired information without any delay.

Institutional Quadro provides the detail structure of the college campus and its departments. It synchronizes the working of all the departments. It looks on all aspects of a college, its students, faculties, faculty and various different modules of an institution.

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