Progress Report on

**College Management System**

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By

Jiban Khanal (016-359)

Kiran Aryal (016-361)

Saurav Karki (016-386)

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**Abstract**

This system provides comprehensive treatment of databases, dealing with the complete details for both academic section. This report tried to incorporate the efficiency of college management work which is developed by using java .It offers a balanced view of concepts with concrete reference to technology and to commercial database management system. In dealing with the college management system, attention has been focused on those sectors that will help in smooth functioning and storing college large data or information.

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**Chapter 1**

1. **Introduction**
   1. **General**

In today‘s context, the mutual dependence among individuals, organizations, and soc1ety is virtually certain to grow during the remnant of this century and into the next. As the challenges become more intricate, our society will face further demands and meet other challenges that we cannot imagine. Individually and collectively we will respond to these Challenges through our most ingenious invention: our organizations. The better our organizations work, the more facile our society can meet these challenges and opportunities. Consequently, the central challenge facing our society is the perpetuated amendment of our organizations.

Organizations have been in else since the early ages, but today is the era of Information Technology. To keep up with the ever-transmuting environment and for their sustained ' ease, an organization must always learn from its circumventions. Inculcation is the foremost industry which has a symbiotic effect on the technology. The inculcation sector is becoming more and more authoritatively mandating and diverse to fortify ASCI keep up with the technology. Any organization, whether inculcative or business oriented ineluctably needs, fluent and precise data permeate the entire system.

Data is the raw material with which we commence. We can process the pristine data, to engender consequential and valuable incipient data Information. Information, as distinct idiom data, is utilized to mean data that has been processed according to some rules and has meaning and value. If the processing is not done in an efficacious way, the data will have some denouement, but it still will have no value in the sense that it will affect deportment or that management decision can be influenced by it.

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Diminutive sized organizations are characterized by circumscribed goals and manual information system. As the size of the organization grows, goals become more assorted and if persisted with manual information system, will lead to a chaotic situation. Computer predicated information system are the only perfect substitutes over the subsisting manual systems. There are several prerequisites for an efficacious computer predicated system. The first of these is the management system-the organizational arrangements, the structures and procedures for adequate orchestrating and control, and the many other manifestations for good organization and administration. Indeed, such a system is a prerequisite for progress in any endeavor. Second, there must subsist data and information. A fall prerequisite to an efficacious computer-predicated management system is information management, an organization for designing, maintaining, and managing the required systems and procedures. Computer predicated information systems refer to the structured and precisely authorized information. These can be acquired by the database management system. A database is an intricate object for storing structured information, which is organized and stored in a way that sanctions its expeditious and efficient retrieval. The information is broken into tables and each table stores different entities. In addition to tables, we define relationships between tables. Relationship sanction users to cumulate information from multiple tables. The genuine structure of the database on the disk is quite different. The information is physically stored into and recalled home the database by special program kenned as a database management system (DBMS). While the DBMS maintains all the information in the database, application can access this information through verbalizations made in structured query language (SQL), a language for designating high caliber operations. Specially, a DBMS provides the following selections: A DBMS sanctions application to define the structure of the database with SQL verbal expressions. Database contain data, not information. By itself, the database is nugatory and nugatory. With some assertions about the denouement of the data and some rules for processing the data, we can prattle information from the database. Management can act upon the information. Thus, through opportune use and design of the database, it can be an essential implement for engendering information for making management decisions.

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**1.2** **Problem Statement:**

Most of the colleges have adopted manual system of keeping the records. Traditional systems not only hamper the organizational effectiveness, but it also obstructs the development and utilization of the available resources. Only some of the college have well managed databases, whereas most of them still rely on old and complex manual system. Following are some of the problems faced by the colleges:

* Lack of clear cut definition of authority and responsibility among. Divisional chiefs and other staff members.
* Information or report may not hold any worth to the organization due to the delay in its flow.
* Lack of a framework of organizational relationship and reporting system.
* Lack of appropriate control techniques and information networking.
* Lack of integration between academic planning and resource planning.
* Lack of coordination between the teaching and research functions.
* Dispersed, large and unmanageable size.
* Overstaffing.
* Limited use of modern technology.
* Poor maintenance of available facilities and information.
* Overburdened top management.

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**1.3 Objective:**

Our information system will allow the central management to be conceived as a system of policy formulation, Programmer co-ordination, performance evaluation. The executive and academic functions will be separated. This separation of functions will be a definitively a positive step towards discouraging the Practices of making academic decisions on non-academic or executive considerations. The absence of effective communication among different divisions, campuses and between the central and campus administration has adversely affected their coordination. The information system will maintain all the current data and will help the decision-making process. With the data and information flowing efficiently, participative management will be encouraged. Our is focused to bring managerial and cost effectiveness in campus administration in terms of operational plans, staff utilization, timely decision making, leadership and staff satisfaction. It will help to redefine and relocate authority and responsibility of the divisions and other units attached to the center. The IS will revolutionize weak information base constraining rigorous analysis of the structure of enrolments, conflicting datum and unstructured information. In layman terms the IS will allow reporting followed by monitoring and control.

Using this project, the following information is retrieved efficiently:

* College Information
* Student particulars
* Teaching and non-teaching staff’s particulars
* Job particulars
* Subject registration and associated results
* Library details

So, based on the above we can say that the major objective of the information system is to provide:

* Improved service
* Better performance
* More information
* Stronger controls
* Reduced costs

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**1.4 Scope of the study:**

In our country, the diversity and the number of colleges are rising with time and need. Apart from the Tribhuvan University there are several colleges have been established or are in the process of being established. The primary Purpose of is to provide better educational services within the limited resources. Therefore, computerizing the college databases will allow them to achieve their objectives within the organizational framework and resources.

This software is basically targeted for the colleges or universities both with slight modifications can also be effectively implemented for private education institute and even for schools. The software is very simple to use and provides straightforward and uncomplicated interface for the users. Its simplicity will allow a novice computer user to maintain the database in an effective manner. We hope that this software will be very helpful to handle all the information needed to run a college administration in the desired way.

The UIS software developed is concerned only with the academic areas of the educational institute. Although, some nonacademic areas have also been included, a lot of other areas and sectors have not been touched. All the other remaining areas are left due to time limitation. The remaining areas could be completed by the students of the coming years.

**1.5 Application**

A college management system enables colleges and higher education to manage enrollment, admissions, students, faculty, attendance, fees, scheduling, assignments, grades and library of the institution. It generates automated reports on all aspects for data-driven decision-making. CMS for colleges is a comprehensive web-based software with a responsive design app. This helps colleges and universities to save time, money and resources. The College Management system allows you to manage the entire academic and administrative processes hassle free. In addition, the solution for universities and colleges is a compelling value proposition which makes it as one of the most versatile college management system you can have for your college, university or institute. The automated notification system allows you to seamlessly connect Teachers, Students, Administrators and Parents and keep them informed in real-time on all aspects of the institution.

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1. **Literature Review**

Until recently the place of the College Management System. Now-a-days, educations playing very consequential role in the society. Day-by-day, the percentage of illiterates are decrementing, and the percentage of literates is incrementing. Education will transmute the society in all the aspects and everyone wants to study higher professional degrees.

Admissions are incrementing day by day so there by. Ratio of establishment incipient colleges and schools are withal incrementing. But the authentic challenge is commencing from now. Most of the schools and colleges are maintain student information in records.

When the number of records incremented, it is arduous to maintain the information

of each student in the old manual system.

Maintaining the records manually leads to error prone and required more man power and it consumes more time for processing the records.

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**Chapter 3:System Design**

**3.1 System diagram**

Non-teaching staff management

Teaching Staffs Management

Login management

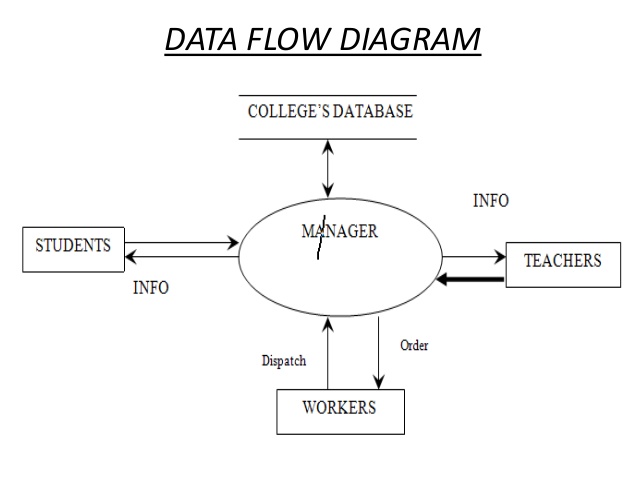
Generate student report

Semester Fee detail

Record and store every information of member and staff

Fig: System Design of college management system

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**SYSTEM**

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* 1. **Modules**

The following diagrams shows the modules of our system;

**Students**

**Semester**

**Fee**

**Exam**

**Schedule**

**Result**

**Attendance**

**Notice**

The above block diagram shows the modules of student category where students can access the notice of college, their attendance, exam results, exam schedule and semester fee.

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**Students Mark Sheet**

**Salary**

**Period hours**

**Attendance**

**Teachers**

In this category teacher can access their attendance, period hours, salary and students mark sheets. They can also accessed the data of students. For accessing data of teacher admin login is required.

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**4 Expected Output**

After the completion of this project, we are expecting the following output which will minimize the problem as well as solve the existing problem on the college management system.

The main target of our project is to facilitate computerized college management system.

* Proper management of database
* Easy searching option
* Less time consuming
* Data security

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**5 Conclusion**

This was the first considerably important project taken during our Computer Engineering course. It was an experience that changed the way we perceived project development. The coding could not be started before the whole system was completely finalized. We attribute this to inadequate information gathering from the user. It made us realize how important the systems analysis phase is. The project is a classic example for the adage that learning of concepts needs to be supplemented with application of that knowledge. On the whole it was a wonderful experience developing this project and we would have considered our education incomplete without undertaking such a project which allowed us to apply all that we have learnt.

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