Student Information Management System

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Abstract— **Our project on "Student Information Management System" is management information system for education establishments to manage student data. Our goal is to focus on services and integration for end users. .It is mainly useful for educational establishments to manage student data which also facilitates all individual associated information for easier navigation on daily basis. It can add, update as well as delete information. The information is stored is view format.**

Keywords — Manage Student data, educational establishment, add, update, delete;

I. INTRODUCTION

Title of the project is Students Information Management System is defined as an GUI that aims to all the level of management providing information within an organization. To overcome the existing problems and to enhance the process of student's data storage, provide better way to add, update, delete and render the data effectively and manage the user's access to the database effectively we can use this simple interface provided by Students Information Management System using python and xampp server.We have used tkinter library in python to create GUI and pymysql connector to connect the database which is created inside the xampp server .

II. LITERATURE REVIEW

This section presents a review of related literature to the study of management information system and students records; the review has been done in accordance with the research objectives which ha e impact of computerized data collection on maintenance of student record, computerized information protection on student record and computerized record management in maintenance of students records in living stone international university

A. A Study of Student Information Management Software

This paper [2] focuses on providing information to support the operation, management and decision-making functions of enterprises or organizations. In the face of huge amount of information, it is required to possess the student information management system to improve the efficiency of student management. Through this system, the standardized management, scientific statistics and fast query of student information can be realized, and thus the workload of management can be reduced. In this paper, a typical student information management system will be established to realize the systematization, standardization and automation of student information relationship.

B. Web Based Student Information System

This paper [3] focuses on simple interface for maintenance of student information. The creation and management of accurate, up-to- date information regarding a student's academic career is critically important in the university as well as colleges. Student information system deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details, placement details and other resource related details too. It tracks all the details of a student which can be used for all reporting purpose, tracking of attendance, progress in the course, completed semesters, years. Different reports and Queries can be generated based on vast options related to students, batch, course, faculty, exams, semesters, certification and even for the entire college.

C. Theoretical Under-pinning of the Study:

According to the university of Florida (2012) explained that student is an individual who is registered for a university credit course or program. A student record, also known as an educational record, obtains information directly related to a student, which means that the record is personally identifiable. Personal identifiers that relate a record to a student include student name, student id, student address, parent/family member names, and list of personal characteristics. Students' records are maintained in multiple media including handwriting, print, computer's main memory. magnetic tapes, cassette, disk pr CD etc. Students' records may be presented by student, submitted on behalf of the student. or created by the university These records are used to assist offices in their support of basic institutional objectives and document student progress and achievement in the educational process of the university.

D. Computerized Data Collection on Maintenance of Student Records

According to Sharapova (2014) noted that systematic literature review was employed as follows:
1) A variety of combinations of search strings were applied to selected scientific databases and search engines. The search string matrix was developing continually through output the review process.
2)Papers pre-selected on the basis of their title and abstracts were downloaded to the citation manager together with their full text
3) All duplicates, multiple entries and irrelevant papers were removed; remaining papers were scanned for information of interest.
4) When a relevant document was cited that had not been previously identified by database queries it was downloaded.

E. Computerized Information Protection on Students Record
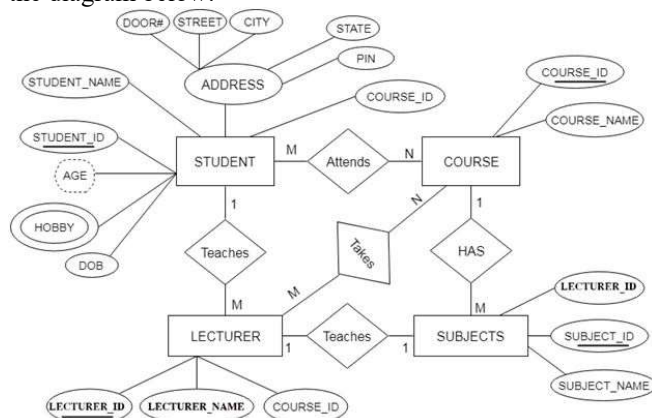
According to kyobe South African university (2009) explained that computerized Information security issues (e.g.,

access to information cyber-crime privacy, and virus Attacks, and commercial data mining) are major concern in academia today Myler and Broadbent (2006). According to Wamukoya and Mutual (2005) noted that poor security and confidentiality controls have been identified as major factors contributing to the failure of capturing and preservation of electronic records in eastern and southern African institutions of education.

Chinyemba and Ngulube (2005) found that 89% of the academic surveyed at the university of KwaZulu-Natal did not adequately protect and secure their electronics records. Jones and Soltren (2005) found that 58% of the students surveyed were not concerned at all about risks to privacy on social network systems. However, little protection of the information of the student is not secure because other students access the information about other students or colleagues without permission hence the need for proper protection for the student records well.

III. Methodology

In this study, both quantitative and qualitative approaches will be used. The design phase was studied by examining documents and researching existing systems for clarity and verification of facts to be collected that are going to be adhered in our system. It will be carried out as illustrated by the diagram below:

1. **SYSTEM DESIGN:**
   The designs of the Student Management System include the design of the home page which provides the way for all students as well as faculty to access the system. Every user of the system has a unique ID. The Home page mainly contains Add, Update, Delete and Clear function. Wherein a student can enter Roll no, Name, Email, Gender, Contact, DOB, Address and Search option.

2. **STUDENT MANAGEMENT SERVICE:**
   In this service, the student will be able to Add their Information, which can be viewed. Later if needed, student can update their information. Deletion of any previously stored information can also be performed.

3. **DESIGN:**
   Once the requirement is collected and analysed, they must be given a proper structure. In this phase, the architecture of the project will be designed based on the requirement collected. In this phase many architectural diagrams are made such as ER

diagrams. The ER diagram defines the relationship between the entities and how they are inter-dependent.

IV. Results

1) Added the details of one student

2) Searched and displayed the details of rollno1 student

3) Deleted the record of one student

V. CONCLUSION AND FUTURE SCOPE

This student information management system used to store the student information easily. It also used to manipulate student information. By this student information management system, we can maintain the student data efficiently. The proposed method is efficient and user-friendly, as compared to existing method of managing data. For future scope, the user will be able to register by using particular ID for particular course where the faculty with unique id will be assigned. And each entity will have its own information.

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