**Lewis University  
 CPSC 50900: Database Systems   
 Spring 2023 Term Project**

**STUDENT RECORD KEEPING SYSTEM DATABASE PROJECT**

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**Table of Contents**

Initial proposal ………………………………………………………………………………………………………………………..3

Data Sources …………………………………………………………………………………………………………………………..3

Data storage alternatives ………………………………………………………………………………………………………..3

Activity Log ……………………………………………………………………………………………………………………………..4

# **Initial Proposal**

A student record or data set includes details specifically pertaining to a particular student, such as the student's name, student ID, address, guardian information, medical information, room number, name, and associated passport photo, as well as a list of personal attributes.

To manage the relationship between the institution and the student, control the student's academic development, and evaluate their performance, an institution must maintain records pertaining to its students.

Student records also contain information that the institution can compile and evaluate in order to inform future strategy, planning, and service delivery.

The application is distributed because administrators and academic staff from all throughout the institution can access the data, which is kept centrally by the university. Students can also view their results by logging into the system. As the real system would be service-oriented, part of its functionality would be made available as a collection of services that other applications may use.

# **Data Sources**

The sources of a student record management system include:

1. Student record management
2. Admission management
3. Attendance management
4. Fee management

You can manage student data to keep up with all school-related information using a student record system's unified database. This makes it easier for you to read important information on admission, courses, and syllabuses. In order to examine learning outcomes, grades, performance, attendance, and other factors, you can also create custom reports using the student records database. You may therefore make better educated decisions because you have a complete picture of your kids.

# **Data Storage Alternatives**

Users now have the option to exchange and access files remotely without having to use their local storage systems thanks to cloud storage.

Advantages of cloud storage are:

Cloud storage is significantly less expensive per GB than using external drives without the requirement for hardware.

Accessibility: When you save your files in the cloud, you may access them from any location with an internet connection.

Recovery: You can access your files in the cloud in case of a hard drive crash or other technical issue. It serves as a backup option for the physical drives that make up your local storage.

Updating and Syncing: Every time you make changes to a file while using cloud storage, those changes are synced and updated across all of the devices you use to access the cloud.

Security: Cloud storage companies increase the security of their services.

Disadvantages of cloud storage are:

Internet accessibility: The use of cloud storage requires an internet connection. You can experience difficulties gaining access to your storage if your network is slow. You won't be able to view your files if you are somewhere without internet connectivity.

Costs: The charges associated with downloading and uploading data to the cloud are extra. If you frequently attempt to access several files, these costs might pile up very rapidly.

Disk drives: Our reliance on hard drives should be eliminated thanks to cloud storage, right? Well, some commercial cloud storage companies also demand physical hard drives.

The greatest cloud storage support isn't available, especially if you're using a free cloud provider. Several providers suggest visiting a knowledge base.

**Activity log**

13th of march 2023- Reviewed the course project description and selected a project which maintains records of students.

17th of march 2023- Finalized the project title as “**Student record keeping system database project”**

18th of march 2023- Worked on Initial proposal

23nd of march 2023 – Researched and reviewed various options of data maintenance.

25th of march 2023- Researched on various options on data storage.

27thof march 2023- Preparation of report

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