Student

Management

System

**Manage students efficiently with an all-in-one system. **

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SECTION 1: SYSTEM IDEA IN A NUTSHELL

The **University Student Management Database System** (USMDS) is a **user-friendly** platform that will assist academic staff to store and organize student's information easily in **one place**.

We understand that how challenging it is, to store the information of the thousands of students and update it frequently when it is required.

After studied existed Student Management Databases, we came up with the idea to create a new database that will not only helps in **reducing** the **administrative task**s performed by the academic staff such as student's grades, attendance, records, course registration and many more, but also helps students to manage their profiles along with the high level of security.

Apart from that, with the assistance of this database, it will also become **easier** to **update** the student's information frequently in a swift manner.

SECTION 2: STORY BEHIND THE IDEA

Everybody is familiar with the topic of Student Management System; still academic staff finds it a stressful task to gather information of plenty of students and keep a track on their profile. Despite of having enough knowledge about **SMS** (Student Management System), many universities need extra staff members to manage the student information effectively. The one vital reason for this is the **increment** of number of **students per university**.

Even students sometimes find it a complicated task to get crucial information about their studies, such as deadlines, announcements, grades, communicate with their professors and more, just because of the scattered information on different portfolios.

Therefore, to tackle such a problem, me and my team members decided to design a database that can handle all **aspects** of student management, such as from enrolment and course registration to keep an eye on academic performance and managing various complicated administrative tasks.

We think that this database would be **fruitful** for the academic institutes as well as students to deal with vast number of students and their information sufficiently and effectively.

SECTION 3: INFORMATION OFFERED TO THE USER

Our system will offer complete information for the students as well as staff members of the college or university to enhance the overall experience of studies.

For students, the system will offer all the personal details of the students such as name, date of birth, gender, address, contact information, email address. Some other details from academic side like student ID, enrollment status, course subjects (major, minor), classes schedules, grades, attendance records which will help student to get all necessary information during study time.

For academic staff, this system will not assist students in managing their information but will also become handy for the academic staff members. With the help of this database staff members can keep track of a student's performance by checking the student's grades, so that they can assist those students who are struggling with studies by providing them with extra support. Also, professors can set their class schedules and can update it whenever it is required to match with their timetable.

For administrators, this database will also help admin to deal with large number of students profiles effectively. Also, assist them to store records of fee payments, scholarship offered to the students and health insurance and more without facing any troubles at one place.

Overall, this system will provide sufficient information to the users in order to make the whole process **smoother** and **more effective**.

Personal Information:	Academic Information:	Administrative Information:
• **Full Name**	• **Student ID**	• **Tuition Fees**
• **Date of Birth**	• **Enrolment status**	• **Scholarships**
• **Gender**	• **Program of Study**	• **Financial Aid**
• **Address**	• **Grades**	• **Health insurance detail**
• **Contact Information**	• **Attendance Records**	
	• **Academic Advisor**	

SECTION 4: DATA STORED BY THE SYSTEM
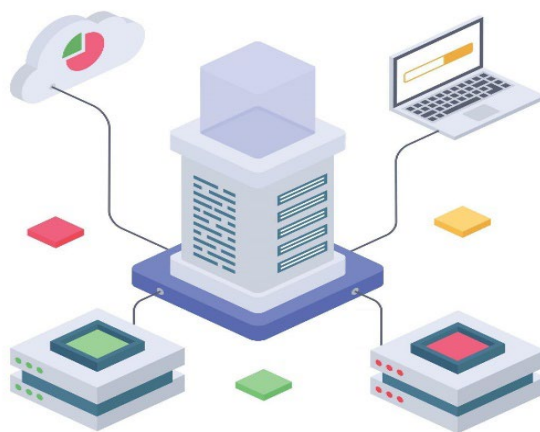
Data Storage

The university student Management database system (USMDS) is designed to store a comprehensive Range of information related to students, faculty and academic activities. The type of data stored Include:

Personal Information:

• Basic Details: Name, Gender, date of birth, Ethnicity, Injuries or disabilities and medical conditions details.

• Contact information: Phone numbers, email address, study address and permanent addresses.

• Identity Documentation: Scanned copies of government-issued IDs (passport, national ID card, etc), Student ID numbers

• Emergency Contacts: Detailed information about guardians or emergency contacts, Including their relationships to the student, phone numbers, and addresses.

Academic Information:

• Enrolment Details: Enrolment Number, date of enrolment, Current academic status (e.g. active, on leave, graduated), and program of study (Major/Minor).

• Course information: Detailed list of all current and past courses, including course codes, titles, instructors, schedules and grade.

• Academic History: Records of past academic Performance, including transcripts, GPA, class rank and academic awards or honours.

• Class Schedules: Timetable For classes, including dates, times and locations.

Health and wellness information:

- Medical Records: Comprehensive medical documentation, including allergies, chronic conditions, immunization records and any special medical needs.
- Counselling Records: Notes from any counselling sessions, mental health evaluations and referrals (subject to privacy and legal regulations).
- Health Insurance: Information about health insurance provided by the university, including policy numbers, coverage details and expiration dates.

(**Note**: - We can only implement health and wellness section if time permits.)

Financial Information:

- Tuition and Fees: Detailed records of tuition fees, payments, outstanding balances and payment plans.
- Financial Aid: Information on scholarships, grants, loans and other financial aid received by the student, including application status and disbursement records.
- Work-Study Programs: Details of participation in work-study programs, including job assignments, hours worked and earnings.

Guardian and family information:

- Parent/Guardian Details: Names, Contact information, occupation Relationship.

SECTION 5: WHERE IS THE DATA COMING FROM?

Student data in a student management system typically comes from a variety of sources, including:

FORMATS FOR ENROLMENT

Application Form: Information gleaned from students' personal and academic

histories during the application process.

Registration form: Data gathered when students formally enrol in a course or program,

including demographics and contact information.

MANAGEMENT RECORDS

Registration Office: Data collected from administrative staff to help choose courses and make record modifications during the registration process.

Academic affairs: Information regarding program changes, grades reports and academic advancement.

Academic Records: Data kept by course management systems about enrolment, grades attendance and performance in classes. Information from tests, grading and evaluations is contained in exam records.

STAFF ENTRY AND AUTHORITY

Feedback from instructors consists of remarks, assessments and grades.

Staff Contributions: Administration updates and makes changes to student data.

Medical and counselling records: Details pertaining to medical and counselling services, as allowed under privacy laws, if relevant.

MANAGEMENT OF RESOURCES AND LIBRARY

Library checkouts: A list of the resources and books that the pupils have borrowed. Details regarding the use of academic resources and facilities.

DATA FINANCIAL

Fee payment details: The finance office provides information on tuition, scholarship and financial features and functionality of the system. Still, a few of the main target audiences are usually as follows aid.

Financial aid applications: Information gathered from loan and grant applications as well as scholarship applications.

Records of communications surveys: Information gathered via questionnaires feedback forms for students.

SECTION 6: TARGET USERS

A university student management system (USMS) can change based on the features and

functionality of the system. However, some of the primary target audiences are usually as follows

Students

The main users of the system are students who utilize it to access their personal data, grades schedules

and communications from their school.

Teachers & instructors

Teachers and instructors use the system to enter grades, monitor student progress, record attendance and communicate with parents and other stakeholders.

Employees in administration

In addition to processing admissions, maintaining student data producing reports, the administrative staff oversees the day – to day functioning of the system.

College administration

Principals, deans and other upper-level administrators make strategic decisions, evaluate performance indicators and supervise all aspects of school operations using the system in school/college management.

It supports employees

They are responsible for maintaining the functionality of the system, handling issues, and safeguarding data.

Academic and counselling advisors

Counsellor and academic advisors use the system to assist students with course selection, track their academic progress and provide career guidance.

Every one of these users interacts with the system differently and requires distinct features and access levels to fulfil their assigned obligations.

SECTION 7: SIMILAR SYSTEM

There are several similar projects or systems which can solve some of the problems faced by the students and staff to manage the data, but all these systems have limited features.

For instance, there is a system called Student information system here the system is limited to managing only the student information and not provide ultimate help to staff and administration.

Similarly, the other systems which are like our system to some extent, but all have limited features.

Some of the most used system in this field are shown below:

- Campus Management System
- Learning Management System
- Academic Management System
- Education Management Information System
- Enrollment management System
- Faculty Management System
- Course Management System

SECTION 8: BENEFITS TO THE USERS

Our system will be beneficial for students as well as the staff members in different aspects of managing the data of students. This will ultimately solve several problems faced by students, staff members and administrators.

Benefits for Students:

 For students, our system will offer easy access to their personal data and the academic planning. In which students will be able to check their information, the academic records and enrolment information in one place.

With our system student can plan their academic path more effectively with up-to-date information. Student will get needed support according to their progress tracked by the staff in this system.

Benefits for Administration:

Apart from this, our system will play a predominant role in managing administrative processes which will ultimately help staff and lighten their burden. This will make the task of storing students' data easier.

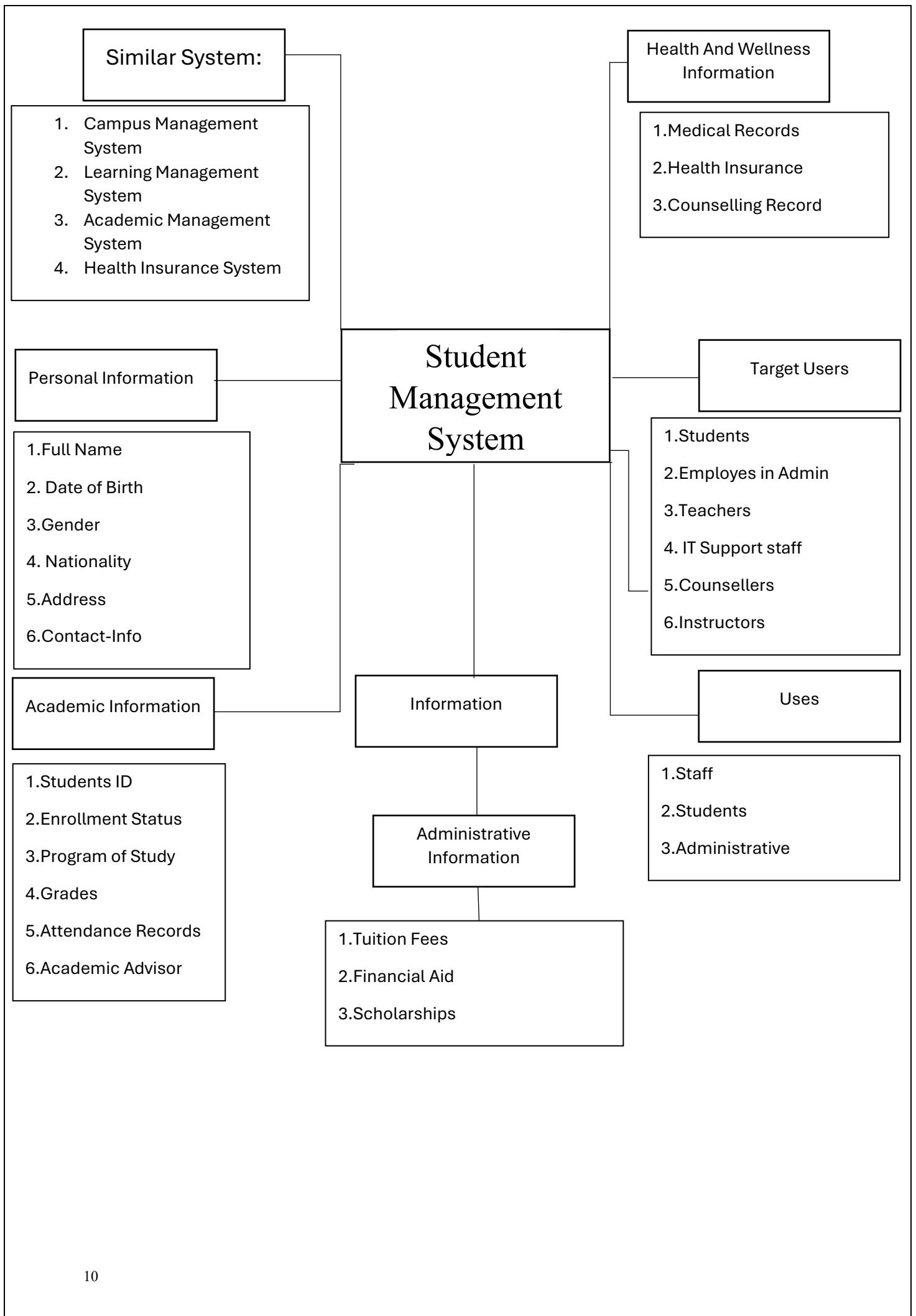Our database system will provide enhanced data security by which no unauthorized person can access students' data.

Another major thing is that the paperwork as well as the manual labour will be reduced. Which will ultimately save the time and resources.

Benefits for Staff:

Staff can be also able to manage course information, grades and enrolment details in a single system. It will also improve the accuracy and consistency across the institute regarding every aspect.

It enables staff to provide better support to the students for improving their overall experience. Our system also allows the better allocation of the data.

SECTION 9: DIAGRAM AND VISUAL DESIGN

Similar System:

1. Campus Management System
2. Learning Management System
3. Academic Management System
4. Health Insurance System

Health And Wellness Information

1. Medical Records
2. Health Insurance
3. Counselling Record

Student Management System

Personal Information

1. Full Name
2. Date of Birth
3. Gender
4. Nationality
5. Address
6. Contact-Info

Target Users

1. Students
2. Employes in Admin
3. Teachers
4. IT Support staff
5. Counsellers
6. Instructors

Academic Information

1. Students ID
2. Enrollment Status
3. Program of Study
4. Grades
5. Attendance Records
6. Academic Advisor

Uses

1. Staff
2. Students
3. Administrative

Information

Administrative Information

1. Tuition Fees
2. Financial Aid
3. Scholarships

SECTION 10: TEAM RECOGNITION!

This proposal is successfully delivered because of the efforts and dedication of all the team members. Everyone demonstrates excellent collaboration towards the project with great enthusiasm. The following members of the group have contributed equally to the University Student Management System.

Cover page, 1st, 2nd and 3rd sections are done by **Paras.**

4th and 9th (diagram)explained by **Prabhjot Singh**

5th and 6th sections are written by **Harpreet kaur**.

7th, 8th and 9th sections are done by **Gursehbaj**