

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.

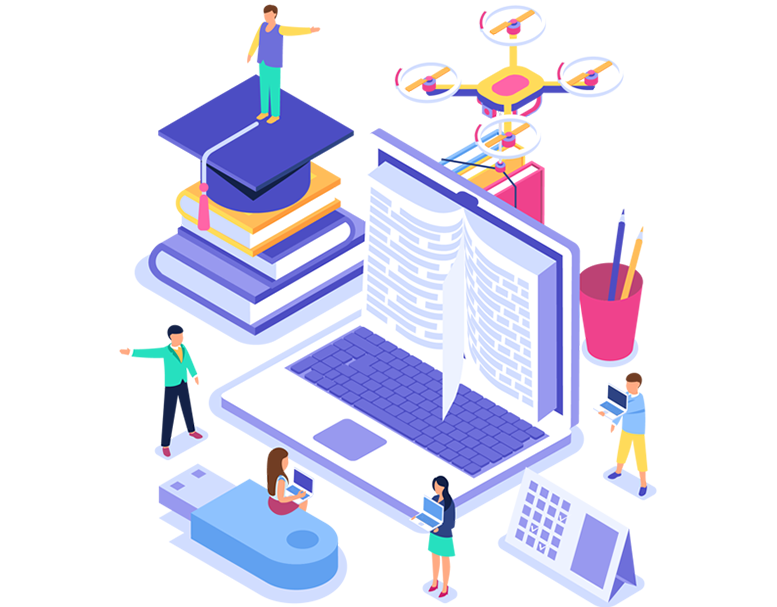
After studied existed Student Management Databases, we came up with the idea to create a new database that will not only helps in **reducing** the **administrative task**s performed by the academic staff such as student’s grades, attendance, records, course registration and many more, but also helps 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 finds it complicated task to get the 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 problems, 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 the all necessary information during study time.

**For academic staff**, this system will not assist students to manage their information, but will also becomes handy for the academic staff members. With the help of this database staff members can keep tracks on student’s performance by checking the student’s grades, so that they can assist those students who are struggling with studies by providing them extra support. Also, professors can set their class schedules and can update it whenever it is required to match with their time table.

**For administrators,** this database will also helps 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 **effective**.

**Personal Information:**

* **Full Name**
* **Date of Birth**
* **Gender**
* **Address**
* **Contact Information**

**Academic Information :**

* **Student ID**
* **Enrollment status**
* **Program of Study**
* **Grades**
* **Attendance Records**
* **Academic Advisor**

**Administrative Information:**

* **Tuition Fees**
* **Scholarships**
* **Financial Aid**
* **Health insurance detail**

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# Section 4: Data stored By The System



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

Behavioural Records:

\*Disciplinary Actions: Detailed records of any disciplinary actions taken against the student, including the nature of the offense, date and outcomes.

\*Behavioural Notes: Observations or remarks regarding a student's conduct and behaviour, both positive and negative, as recorded by instructors or administrators.

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.

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? A close-up of a person's hand

Description automatically generated

A student management system's student data usually originates from multiple sources, such as:

**FORMS OF ENROLMENT**

**Application form:** Data gathered from students' personal and academic histories during the application process.

**Registration form:** Information collected, such as contact data and demographics, when students formally enrol in a course or program.   
  
**ADMINISTRATIVE RECORDS**

**Registration office:** Information gathered from administrative personnel for course selection and record changes during registration.

**Academic affairs:** Details about grades, reports, program modifications, and academic progress.   
  
**Academic Records:** Information on enrolment, grades, attendance, and performance in courses managed by course management systems. Exam records contain information from assessments, grading, and exams.

**AUTHORITY AND STAFF ENTRY**

Instructor feedback includes comments, evaluations, and grades

**Contributions from Staff:** Modifications and updates to student data performed by Administration staff.

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

**MANAGEMENT OF RESOURCES AND LIBRARY**

**Library checkouts**: A list of the books and materials that students have checked out. Information about the utilization of academic facilities and resources.  
  
**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 UsersA finger pointing at a group of people Description automatically generated

The target users of a University Student Management System (USMS) can change based on the   
features and functionality of the system. Still, a few of the main target audience 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.

**Instructors and Teachers:**  
The system is used by teachers and instructors to enter grades, oversee classroom activities, keep tabs on attendance, and interact with parents and students.

**Employees in Administration:**  
The system's daily operations are managed by the administrative staff, who also process admissions, maintain student data, and produce reports.

**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 Support Employees:**  
The upkeep of the system's functionality, problem-solving, and data security are within the purview of IT support staff.

**Advisors for Academics and Counsellor:**Using the system, counsellor and academic advisors help students plan their courses, monitor their academic progress, and offer career recommendations.  
In order to carry out their responsibilities as assigned, each of these users interacts with the system differently and needs varying features and access levels.

# Section 7: SIMILAR SYSTEM

# Section 8: BENEFITS to the Users

# Section 9: diagram and visual design