

Proposal for

Student Information Management System

Project name: Student Information Management System



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Introduction :

Student information management system is an important part of university which helps student to manage all the data in a well-organized. In this management system gives a unique id against every student and using the id, student can easily track the advised courses, grades, departments and attendances within a sec. Similar to the students, the teachers also become more productive with a student management system. So this management system will also help the fresher's to understand the academic policy.

Repository Link : <https://github.com/ChowdhuryRezaTanjim001/Student-Information-Management-System>

Purpose and Benefits of Student Information Management System project :

The main objective of this system is that student can know and get updated about their courses grades and attendance.

1. Helps to reduce the communication gap among all student and improve the usefulness of the entire university.
2. The total student advising process can be managed online by this student management system. This allows students to apply for courses from the university admin.
3. Department can handle courses with the faculty so that student can know which courses they take under which faculty and teacher can also understand which courses he or she will teaches.
4. Faculty can publish student grade online also can give attendance. It may reduce extra work as well as time for teachers. And student can view their academic grade history at any time by this system.
5. Student can view the details about their department they belong to. This gives them overall idea of their faculty.

Student Information Management System Features :

1. **managing student user, courses, and generating grade.**
2. **making a course details.**
3. **Instructor-led course management.**
4. **Student tracking their result.**

5. Faculty can give the attendance to their students.

User Story :

Use Case-1 :

Student need to join the next semester courses. They have options

- a) Search in the site for their subjects.
- b) Join the class by advising courses for the semester.

Use Case- 2 :

Mr. XYZ want to see the grade for his particular courses for that he has one options which is

- a) Go to the page of grade history and review the grade.

Use Case- 3:

Mrs. JA want to see the attendance for the courses for that she need to do

- a) Go to the courses and see the attendance for the particular courses.

Limitations of the This Project :

- Student cannot see the payment as well as payment history for their advising courses.
- Faculty cannot send the message via this system.
- Parents cannot have any access to this system.

Problems and Solutions :

Here we can see some simple problems and solutions related to database

Problems

1. Get student numbers, names and majors of students who do not have an 'A' in any course they are enrolled in
2. Get the number of students in the department named 'Physics'.

Solutions

1.

```
SELECT s.student_id, s.name, d.dname
FROM Student s, Department d
WHERE s.deptcode = d.deptcode AND NOT EXISTS
(SELECT * FROM ENROLL_in
WHERE e.student_id = s.student_id AND e.grade = 'A')
```
2.

```
SELECT COUNT(s.student_id)
FROM Student s, Department d
WHERE s.deptcode = d.deptcode AND d.dname='Physics'
```

Examples of various Student Information Management System :



NSU Portal | North South University

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Infinite Campus - Student Portal / Infinite
Campus Student Portal

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Front-end plan

There are some templates in plan

1. Home page
2. Login page
3. Student Profile page
4. Course page
5. Faculty page
6. Marks page

Back end development

1. Account Creating :

- a) User sign up form
- b) login

2. Profile Management :

- a) Student Profile
- b) Faculty Profile
- c) Course details
- e) Grading history

3. Searching facility:

- a) Faculty search
- b) Student Search
- c) Course search

Technologies/ Software:

- Word/ Power point
- XMAPP
- Visual Studio Code
- Git bash
- MYSQL
- JAVASCRIPT/PHP/HTML

Advantages and Disadvantages :

There are many advantages and disadvantages of this Student Information Management System like student can see their courses, grades but they cannot drop a courses and total payment of taking courses.

Advantages

- Student can access their academic information.
- Student can see their grade and attendances for their particular courses.
- Department can connect to the faculty and student.

Disadvantages

- Student cannot drop the courses in this system.
- Student cannot see the payment system.
- Student cannot get the necessary message from the faculty or authority.

Collaboration (Work Distribution Among members) :

Group Member	Work Distribution
1.Chowdhury Reja Tanjim	Create github repository + project proposal + frontend+ backend
2.Sumaiya Nafisa Nawar	Project proposal + database + frontend + backend + report
3.Jhumu Akhter Ema	Project proposal + er diagram+ database+ backend + report
4.Mashruba Akhter Sumona	Project proposal + backend

:

Github Contribution :

There are 4 branches of group member in github. They push their work in their particular branches. We can see that from github repository. Here is the link of repository :-

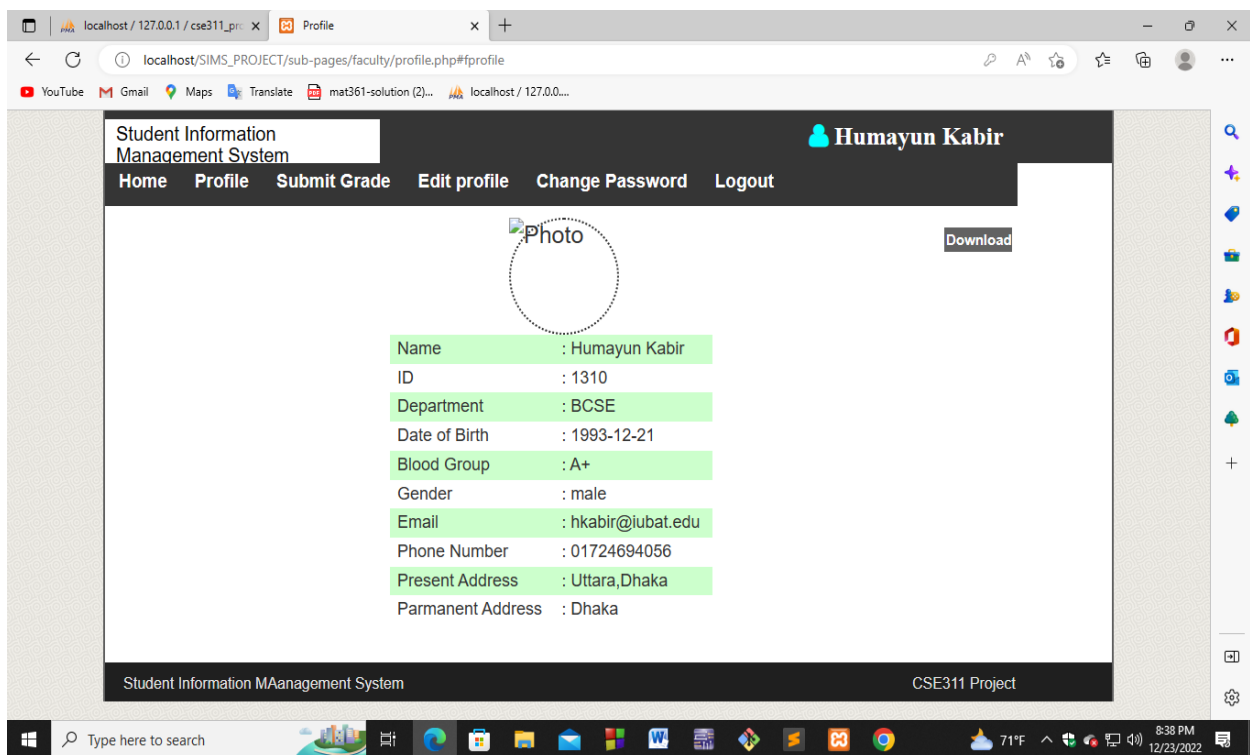
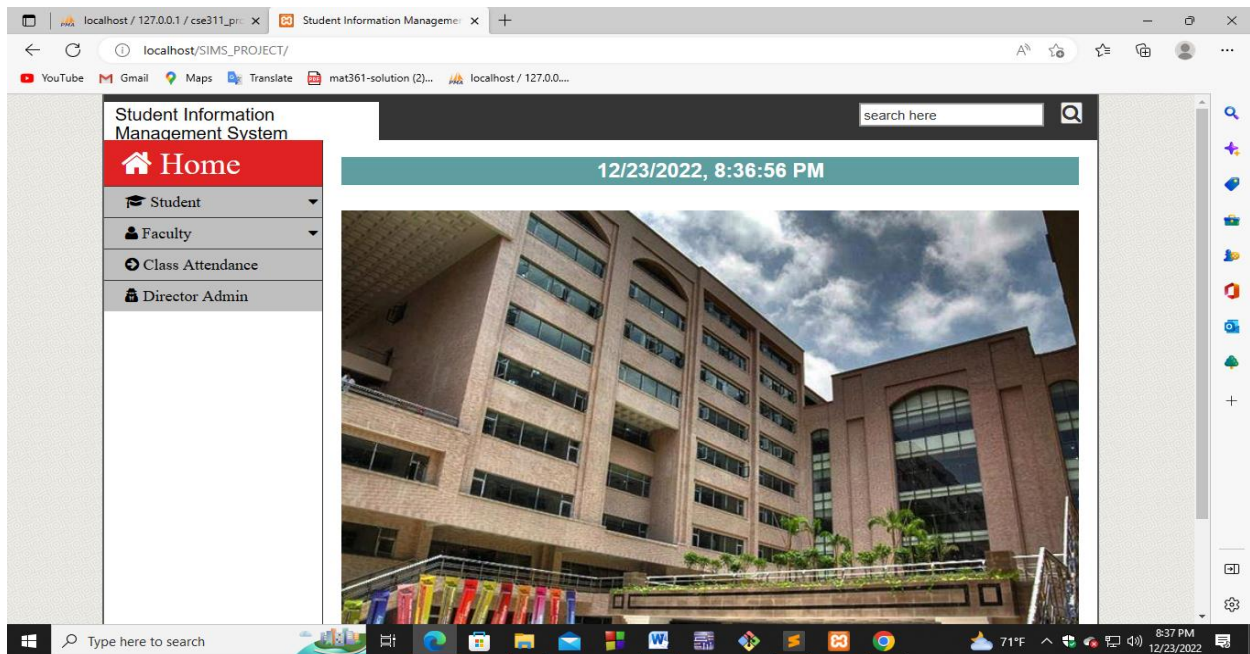
<https://github.com/ChowdhuryRezaTanjim001/Student-Information-Management-System>

Budget and Price :

SL	Deliverable	Expanse	Comment
1	Front end development (HTML, PHP, CSS)	xxxx	
2	back-end development	xxxx	
3	Database design (MySQL)	xxxx	
4	Setting up middleware	xxxx	

Note: Price is excluding of any Tax, VAT and other levies.

Some Screenshots of Project:





Future Work :

- ✓ In future, student can drop the courses which they don't want to do.
- ✓ Student can see their payment status.
- ✓ Student can do faculty evaluation and faculty can see their evaluation in this system.
- ✓ Faculty can send important message to the student by this system.
- ✓ Parents can have access to this system.

Conclusions :

A student management system is a system which helps both the student & faculty to give the academic information about grade, course, department and attendance. In this system, students are more benefited than faculties because of some features and limitations.

- ❖ Student management website have become essential to ensure the smooth running of a higher education institution.

- ❖ This software solution takes the complexity out of ensuring operational efficiency across departments and enhances the student experience and overall productivity within the organization.
- ❖ For more on how a student management system can impact your institution, and they can know more thing through this.

Appendix :

Contact information

Contact Persons Name:

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