

**COMSATS University Islamabad**

**Abbottabad, Pakistan**

**Student Information System**

***By***

**BASIT IQBAL CIIT/FA2021-BSE-050/ATD**

**FATIMA AFTAB CIIT/FA2021-BSE-088/ATD**

**FAWAD IQBAL CIIT/FA2021-BSE-012/ATD**

**FAIZAN CIIT/FA2021-BSE-011/ATD**

***Supervisor*Sana Malik**

***Bachelor of Science in Computer Science (2023-2023)***

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**EXECUTIVE SUMMARY**

The Student Information System is a solution that helps schools and colleges manage student information more efficiently and encourages better teamwork. It replaces manual systems that often lead to mistakes and make it hard to make smart decisions. This system uses a database to store student details like their personal information, grades, and more. It ensures that everyone has access to accurate and up-to-date information, which helps avoid mistakes and promotes transparency.

With this system, students can easily access their records. Administrators can generate reports, analyze data, and make better decisions.

Implementing the Student Information System brings many benefits, including smoother data management, less administrative work, improved teamwork, and better decision-making. Institues can use accurate information to help students succeed, provide the right support, and make the most of their resources.

In conclusion, the Student Information System is a helpful solution for schools and colleges to manage student information and promote collaboration. By using technology to streamline data management, increase transparency, and encourage teamwork, this system contributes to better educational outcomes and a positive environment for students, teachers, and administrators.

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# **Introduction**

The Student Information System is a solution that helps schools and colleges manage student information more efficiently and encourages better teamwork. It replaces manual systems that often lead to mistakes and make it hard to make smart decisions. This system uses a database to store student details like their personal information, grades, and more. It ensures that everyone has access to accurate and up-to-date information, which helps avoid mistakes and promotes transparency.

## **Relevance to Course Modules**

The project is implemented by using the different concepts of Data Structure and Algorithms. This project is implemented by using a singly link list. It is used to store the data of students in institute. By using link list, it can store data, delete data, and search or find data.

* 1. **Project Background**

The Student Information System is a solution that helps schools and colleges manage student information more efficiently and encourages better teamwork. It replaces manual systems that often lead to mistakes and make it hard to make smart decisions. This system uses a database to store student details like their personal information, grades, and more. It ensures that everyone has access to accurate and up-to-date information, which helps avoid mistakes and promotes transparency.

Implementing the Student Information System brings many benefits, including smoother data management, less administrative work, improved teamwork, and better decision-making. Institues can use accurate information to help students succeed, provide the right support, and make the most of their resources.

## **Literature Review**

There are a lot of projects on the student information system. Such as,

* Classe365
* Creatrix Campus
* SIS APP
* SIS Punjab

# **Proposal**

We are proposing the implementation of a modern Student Information System (SIS) for our organization. The objective of this proposal is to improve the management of student data, streamline administrative tasks, and enhance communication among stakeholders. The proposed SIS will automate processes such as enrollment, registration, and academic records management. It will also include modules for students and administrators to access and update relevant information. By implementing the SIS, we aim to increase administrative efficiency, ensure data accuracy, and improve communication within our educational institution. We seek support and approval for this initiative, believing it will bring long-term benefits and keep us at the forefront of educational technology.

# **Functional Requirements of System**

## **Admin’s Requirements**

### Login:

Admin can login to the system by entering his/her e-mail and password. If the details are correct, then admin can view his/her dashboard. Otherwise, the error message will display.

### Logout:

Admin can logout the system if he clicks on logout button.

### Enroll Students:

Admin can click on enroll students’ module , then he can view new panel in which he/she can enroll student by entering student name, registration no and list of courses. Then he/she can click on the register button.

### View Students:

Admin can view students by clicking on the view students’ button.

#### 3.1.4.1. Search Students:

Admin can search students by their registration number.

### View Courses:

Admin can view list of courses by clicking on the view courses module.

#### 3.1.5.1. Search Courses:

Admin can search courses by their course codes.

## **Students Requirements**

### Register:

Students must register them self in system by filling form.

### Login:

Students can login to the system by entering his/her email and password. If the details are correct, he/she can view his/her dashboard. Otherwise, error message will display.

### Logout:

Students can logout of the system by clicking on the logout button.

# **User Interface of system**

# **Code**

# **Conclusion**

In conclusion, the proposed Student Information System (SIS) offers a valuable solution to the complexities involved in managing student data within educational institutions. By harnessing technology, this system streamlines administrative tasks, ensures accurate record-keeping, and fosters collaboration among students and administrators. The SIS provides a user-friendly interface for students to access their academic information . Administrators benefit from data-driven insights and streamlined processes. Implementing the SIS will improve overall efficiency, enhance the educational experience, and enable informed decision-making.