Student Management

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ABSTRACT

Students form a very main part of university/college that concerns them. But the University finds it more difficult to track or save their records in one place. So, storing it physically will require more pen and paperwork and will need much more effort to manage huge data. Sometimes there will be a huge heapof files which are kept in the corner of the office and if we want to find details of a particular student then it is a time-consumingtask. So, there's a need for a system to manage this big data ona platform that can be accessed by students at anytime and anywhere so that they can be updated.

So, the student management system will provide a simple interface for storing information about students easily and if we want to find any particular student details it just needs to search for him/her by simply entering their roll number. The creation and management of accurate Up-to-Date information regarding a student's Academic career are critically important in university or college.

The student information system deals with all student records such as fee records, Filling exam forms, Accessing timetables, and many more, which will help students to get their records in one place instead of running to offices and asking them. To make these things possible there should be a user-friendly interface that will not confuse students and they can get their records with a single mouse click.

Keywords

Student management, student information, system academics, Academic career.

1. INTRODUCTION

Student Management System is a Graphical user interface designed using a java programming language with the help of a Database Which is helpful to colleges as well as students. As we know nowadays all the work is done manually Which is very time-consuming and costly. So, our Student Management system deals with various activities related to students which we will discuss further.

Here in the student management system, there are mainly 3 actors: Admin, Faculty, and Student. Each one of these has been

assigned a task/module where they perform their operations. Here Each module is secured and can be accessed by authorized persons by simply entering their Username and password given by the University which makes the system more secure and private.

2. PURPOSE

The main objective of the student management system is to allow students to edit their information, access their grade cards, and timetables, fill out their exam forms, and many more in a secure environment. And also help colleges to store students' records and retrieve them with a single click. Overall Student management system makes an easier job for admin, students, and faculty!

3. SCOPE

Without such a system i.e., a student management system it is a tedious job to manage the data of huge students in a university/college which is more secure and easy to access without any data leak or data damage so there is a need for such a system!

4. SYSTEM ARCHITECTURE

4.1 Admin Module

The first and base module of this Student management system is the admin module, this module manages students' information for viewing the total strength of students in a particular class/batch. Collecting students' fees for their particular batches and adding students(new admissions) by allocating them their chosen courses and particular stream etc.

4.2 Faculty Module

The second most important module is the faculty module which stores the academic records of a particular student such that faculty can perform the following tasks: they can add results of a particular student and also can add the timetable of the particular batch which can be seen by the students anytime anywhere. And also, the faculty module is well secure with a username and password.

4.2 STUDENT MODULE

Like Admin and faculty has to log in, same here the student will get an enrollment number which will be theirusername and a password will be his/her mobile number to log in themselves. After login, the student is redirected to a college interface where he/she can able to view and update their profiles, view their grade cards semester-wise, see their current semester timetable, apply for the examination, download the examination hall ticket, and view their running semester subjects which are allocated by their faculty.

5. OVERALL DESCRIPTION

Student Management System is an independent project which is not dependent on the availability of other resources, the system has admin and faculty modules that have sufficient rights to manage this entire system. And making the system more user-friendly and easier for the students of particular universities /colleges.

5.1 Product Functions

As we know there are three main modules in our system admin, faculty, and students so let us understand the features provided by the university to them:

The features that are available to the Administrator are:

- View Student's Details.
- Add Students.
- Collect fees.

The features that are available to the faculty module:

- Add results
- Add timetable

The features that are available to the students are: -

- Can view/Update their profile.
- Can view their timetable.
- View their Grade cards.
- Fill out their current semester examination form.
- View/download their Hall ticket for the exam.

6. TECHNOLOGY USED:

6.1 Java Programming language:

Java is a widely used object-oriented programming language that runs on millions of machines. It is a fast, reliable, and secure programming language that helps programmers todevelop their applications. java also supports a graphical user interface using which we have made our project. Applications of java are: used in game development, application development, web application, network application, etc.

6.2 Database Management System

A Database management system is a system used to store huge amounts of data in a secured environment, Database is used to store, update, retrieve, delete, and add data with the help of structure query language(we can also add manually).

7. DATA FLOW DIAGRAMS

7.1 Admin Data flow Diagram

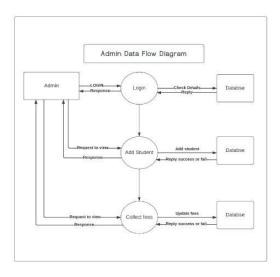


Figure1:" Admin DFD"

7.1 Faculty Data flow Diagram

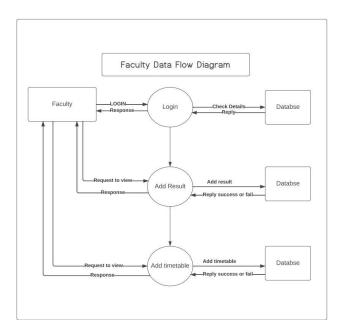


Figure2:" Faculty DFD"

7.3 Student Data flow diagram

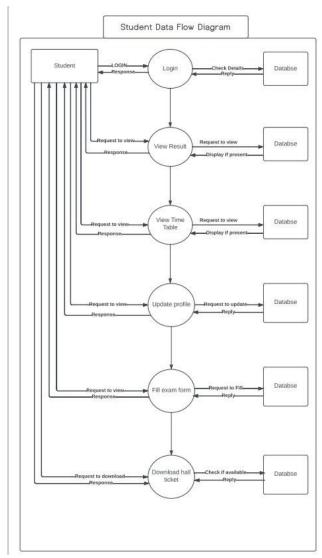


Figure 3: Student DFD

7. CONCLUSION

The Student Management system can be used by educational institutes to maintain their student's data instead of manually storing data in traditional ways which makes it very time-consuming work. All these problems are solved by this project. and also, will surely make a big change in the sector of education.

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