

## **AUTOMATION OF STUDENTS INFORMATION SYSTEM USING PHP**

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### **Abstract:**

The faculty members in the college departments maintain the data manually using the hardcopy and a few basic technologies. However, the limitation is that neither the students nor the parents have access to this information. While following the manual system, the staff members contact the parents to inform the grades of their wards, test results and attendance history. This leads to extra consumption of time and employed parents are unable to take time off their busy schedule. This research article is a study on automating the student information system to be accessed outside the organization in order to minimize the time involved and increase the range of accessibility. The system's user interface is simple, and data administration is efficient. The system has four components. Student attendance, result analysis, tracking placement information, and faculty attendance system are among them. Students, HOD's, and tutors are the users. Results are sent to the students in the PDF format.

**Keywords:** Automation, single platform

### **Objectives:**

- Retrieve the information from the PDF and update it in the database
- Presenting an automated result analysis.
- Keeping track of students' test results and identifying the good performers.
- Identifying student placement information.
- Categorizing students for extra coaching based on performance.
- Reduce paperwork and manual performance.

## **1.INTRODUCTION**

The management of departments in the higher education system is becoming highly significant and challenging in the current educational scenario. One can immediately gather all the important data that the management needs using the Department Automation System. The Department Automation System is made up of various modules, including those that track each student's attendance, placement, and results. The primary objective of this research article is to develop software that will monitor the function of the various modules. The time taken to accomplish various operational tasks, such as saving them in a database, is decreased by the interconnection of modules. Basic student information is mechanically collected by the department automation system. This software retains the data on a variety of users, including faculties, as well as statistics on the academic marks that students have received over the course of multiple semesters. It eventually creates a final report for each student. The use of bootstrap- a designing language enables the system to be more responsive. The technology aims to minimize the paperwork and eliminate the manual procedures, and save a great deal of employee time.

## **2. EXISTING SYSTEM**

A manually followed system converts the semester result pdf into an excel sheet which analyses the data, and generates a report. The analyzed report is not stored in the database. The faculty members record the attendance and additional information. The administrator receives and stores the sheet. An existing placement automation system uses a criteria-based search to identify students who meet the criteria in accordance with the needs of the organization.

After the results, result analysis manually- marks and highest score calculated – subject percentage, students, class percentage and overall BCA dept percentage in KSG

Noted manually attendance – monthly cumulative

**DISADVANTAGES OF EXISTING SYSTEM:**

- No exact tracking the attendance of students, so it leads to lack of monitoring the student activities.
- Time consuming
- Paper works involved
- Manual errors
- Monitoring the placement details is difficult and consuming
- lot of manual works

**3. PROPOSED SYSTEM**

The faculty can update the number of students absent in a specific class and the reasons for their absence in the automation system, using MySQL programme which the department head can monitor using login credentials. The placement automation component keeps account of every component of a student's placement, including the number of companies they have visited, the rounds they attended in each one, and the number of students who were finally hired by each organization. The assignment marks, seminar marks, internal assessment scores, and pass percentages for each subject, each class, each year, and the entire department are updated in the result analysis automation module.

On automation of the attendance module the daily attendance is sent to the parents. A red alert and warning note is sent to the parents, of the wards having attendance below 75% through an automatically generated mail.

**4. WORKING PRINCIPLE**

The four most essential department management system modules include the Student, Staff, Administrator and the parents who are effectively considered as the end users by the system. Extent of an access to the system depends on the roles. Each user has a username and password that they employ to log into the system.

**1. STUDENT:**

Only administrators can admit the students to the system by registering their basic details. The administrator generates a login and password, which the student can operate. The student has access to their personal profile, their regular and updated attendance history, and records of class tests.

**2. STAFF:**

The ability to monitor the daily attendance of all students in a given class belongs to the faculty. The semester exam and the internal exam results are recorded in a database and can be updated by the staff members. They analyze the data and produce reports for each subject and also on the student performance. A staff member also keeps a record of every student's placement information.

**3. ADMIN:**

All faculty and student accounts can be regulated only by the administrator. The administrator can view and manage the log of data generated. Any alterations made to a student's profile by the student must be checked and approved by the administrator.

**4. PARENTS:**

Parents can view their child's attendance record, grades, and results. If they have any queries about their children, they can message the respective class tutor.

**5. ALGORITHMS**

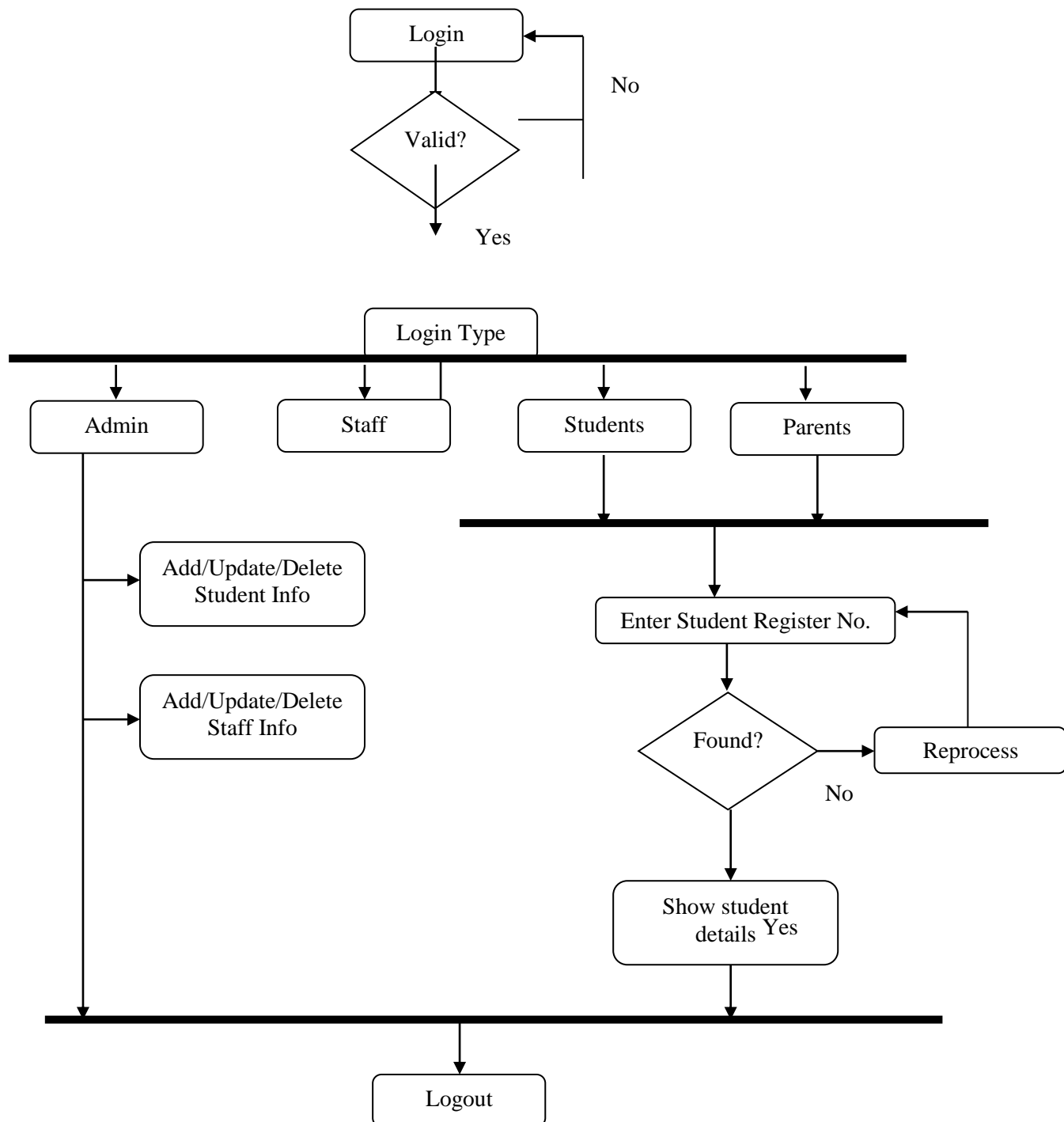
1. Login using the valid username and password.
2. Select the type of user - Admin, Staff, Students or Parents.
3. In Admin login we can modify the other user details. Data can also be added or removed in this application.
4. In the staff login, the students' attendance internal marks and personal

information is recorded.

5. In the parent login, the child's attendance record, grades, and results can be viewed.

6. Logout from the application.

The following figure shows the flow of Student Information system



## **6. TECHNOLOGY**

The automation software works in any platform. It is developed in PHP, MySQL using XAMPP server.

## **7. FUTURE SCOPE**

For the department staff, it is simpler and more convenient to complete their job. It decreases the demand for both manual effort and paper work. There won't be any room for error if everything is computerized. Also, since information can be easily stored and retrieved, tasks can be completed quickly and on schedule. The database's contents are all more securely stored. Other benefits of this programme include its ease of use, minimal paperwork requirements, more user interaction, and superior responsiveness to the present system compared to the existing system.

## **8. CONCLUSION**

In the current system, it is challenging to get information from the files manually, and there is no quick and simple way to maintain the records of the staff and student. Their personal information is not protected. Furthermore, the current system lacks automation. Our technology helps to automate the current manual procedure while reducing the workload and save substantial employee time. This work is digitalized. It requires less labor overall and always provides correct information as there is no possibility of mistakes if everything is done by the computer. The information about the students is compiled in a database that is always accessible. The information that is kept in the database is more secure.

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