

Web Based Coaching Institute Management System

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Abstract— In this paper, we introduce a new software product for handling activities takes place inside coaching institutes. Now a days there is a tremendous increase in the activities takes place inside the coaching institutes. The “Coaching Institute Management System” is a software product to automate and log on to various day-to-day activities and to provide instantaneous information required in effective management of any coaching institute. The automation part of the software would involve data capture and maintenance of details on the institute, staff, students and tasks in the overall management of the institute. In the existing system we can stored all the record manually that required large man power and place to store the records. Due to manual maintains lots of faults are occurred so needed to replace existing system by automated software system. Automated system is time saving and gives better performance than manual based system.

Keywords— Online access, centralized control, easy maintenance, automated system

I. INTRODUCTION

Coaching Institute management software is a complete solution for managing an administration. In other words an enhanced tool that assists in organizing the day-to-day activities of the coaching institutes.

Coaching institute management system centralizes institute by providing features to its Administration, Students, Staffs. The attendance review shows all students, staffs absent today and students absent for the current marking period, select students and parents for SMS communications, click on student's name to see demographic information to call parents, detail level absenteeism, comments entered by teachers/office staff. Administrator can keep eye on the regular money transactions and institute fees collection program can be customized according to institute rules. Data in the systems can be analysed, graphed and reported in the format of user's choice. Administrators are provided with a full control over this software. Administration can send announcements of the events to all users in the institute. Students are provided with user ids and password. Students can access their full details regarding marks, fees, examination results. Parents can access the details of their wards report card, performance, comments from teachers and everything related to their ward.

This system provides a simple interface for the maintenance of student and staff information. It can be used by educational institutes to maintain the records of students easily. Achieving this goals is difficult using a

manual system as the information is redundant, can be scattered and collecting relevant information may be very time consuming[1]. The paper focuses on presenting information in an easy and intelligible manner which provides facilities like online registration and profile creation of student's thus reducing paper work and automating the record generation process in an educational institution[1].

II. OBJECTIVES

The main objectives of our work are:

1. To provide a proper registration channel/system to the new students
2. To maintain all the accounts of the students in digital form from enrollment upto the end of the study.
3. To make the information accessible to the admin at the desk, in just a click away.
4. To have a centralized control over the records of the students, staffs and monitor changes in these records.

III. LITERATURE SURVEY

In the existing systems all the work is done manually and all the data is stored by using files and registers. The record of every student, courses, teachers are handled manually. If we want to access any student information then all the details can not received in one file only. There is need to search lots of records and files registers. In current mode of working first all the information is received and then fill up in the registers. If we want to check any student details like update or delete information it is very difficult to search all records also it is very time wasting process. Same case happens to staffs. When any student will pay the funds or fees than it will also stored manually.

A. Existing System

Existing system was carried out through manual process. Maintenance of the records in the existing system is difficult. Lot of time is taken to search for a particular record. There is a chance of occurrence of errors. Updating and retrieval of information in this existing system takes more time. Thought it has used a information system, but it is totally a manual one and hence there is a need of upgrade of the system to that of the computer based information

system. The coaching institute has computers ,but they are used just for the paper works and for simple jobs as creating applications, typing the notices, creating attendance sheets.

1) *Disadvantages:*

The disadvantages of the existing system are:

- i. Manual process
- ii. Maintenance of the records is difficult.
- iii. Chance of occurrence of errors.
- iv. Involves large amount of paper work.
- v. Time consuming process.
- vi. Slow Updating and Renewal of Data

IV. RELATED WORK

In [2], Management Information System (MIS) differ from regular information systems because the primary objectives of these systems dealing with the operational activities in the organization. In this way, MIS is a subset of the overall planning and control activities covering the applications of humans, technologies, and procedures of the organization. MIS make it possible for organization to get the right information to the right people at the right time by enhancing the interaction between the organization's people, the data collected in its various IT systems, and the procedures it uses. It brings together the raw data collected by the various business areas of the organization. MIS allows information to move between functional areas and departments instantly, reducing the need for face-to face communications among employees , thus increasing the responsiveness of the organization.

In [3], It illustrate that Campus-SIA presents many potentials to university administration management in terms of performance enhancement. Management issues are not new to those of us teaching and researching in the field of enabling campus administration into the web. Campus-SIA serves specifically to the academic and administration staff to enter student information along with his/her financial data. This paper demonstrated its major functionalities, and architecture whereas provides opportunity to overcome some of the limitation of monolithic management system. The architecture of Campus-SIA described the modular type of software architecture along with separating presentation logic, web logic, business logic and data logic as desired by the users. Future work would be carried on implementing further modules into the application and we will explore to standardize Campus-SIA so as to meet the management environment of any campus around the world.

In [4], This paper presents an analysis of different technologies which are used for attendance making system. Traditionally student attendance is taken by professor and it will waste too much time of lecture. Too much proxy attendance can be recorded in manual system. This can be replaced with computerized system. RFID will take auto attendance for all the students entered in the class which will remove the time loss of professor. On the other hand Face Recognition will verify the student which will remove the proxy attendance.

In [5], The student management system based on the RFID technology is flexible, which means that it may be extended by adding more modules. The cards that have

been employed for this specific system are RFID cards, and the algorithm used has shown stable and reliable results. These cards can be put to use at the university and may replace student ID cards. RFID technology continues to develop, and the time has come for us to avail ourselves of its promise and convenience. The main aim of this research has been to demonstrate potential uses of RFID-technology and build a system reliant on it.

V. PROPOSED SYSTEM

In this paper, we are introducing the system which will contain the following modules:

1. Enquiry Management :-

This module will help you to make the enquiry system well organized in terms of look into & intensify utilization of time as it works on automated system. Since admission depends upon the number of enquiries & how it is being handled & followed up on.

Features:

- Online enquiry form.
- Course wise inquisition system.
- Maintain direct or head-on enquiry, telephonic enquiry & online enquiry. .
- Automated email/SMS follow up system.
- Customization of email/SMS contents can be done anytime according to need.

2. Students Management :-

The student module enables you to accumulate all personal, academic, professional and history data regarding the students.

Features:

- Maintain record of all important details about every student. Record can be edited as per requirement.
- Change of course & batch can be done simply.
- Students record can be filtered based on the course & batch.

3. Fees Management :-

The fee module helps in maintaining registers of payment collection and the receipt can be issued on the basis of student/course. The fee module can be configured according to different fee types, and its calculations.

Features:

- Online Billing
- You can check fee structure of different classes
- Amount paid and amount dues can be viewed as per the classes, courses or individual student.
- Easy Counter payment process

4. Expense Management :-

This is one of the very important module for the management of whole expenditure of an organization. Institute can manage whole expenditure and the number of reports can be generated on regular basis.

Features:

- Budget Planning for the session
- Manage expense head wise

5. Examination Management :-

The examination is the admirable module which covers execution, planning, maintenance and monitoring progress. All examinations result like quiz, class test, internal/external exams etc. will be displayed online.

Features:

- Online result of every exam.
- Send result of every exam or test to parents mobile automatically.
- Get details of every test or exam, student wise, course wise or batch wise.

6. SMS Module :-

This module is more useful to deliver the important information to students, parents, staff. This module can be attached with some other module like fee, attendance, examination, staff, etc.

Features:

- According to their requirement Institute management would have a right to send SMS.
- Management can send SMS to one student, to a group, to whole class.
- Send reports automatically of every exam and test conducted in the whole session.

7. User Management :-

This module is used by the administrator to preclude illegal access to the system. Any user logging into the system can access only those functions for which he/she has been granted access for.

Features:

- Transparency in Institute management.
- Secure in case of unauthorized access.
- Can reserve the rights to access.
- Authorized person or Administrator can check detail of any module on his/her system.

8. Manage Attendance :-

This module is very much helpful to manage attendance of students of all courses and batches. Absentee remarks can be managed very efficiently.

Features:

- Manage attendance course & batch wise.
- Summarized attendance can be viewed .
- Overall absentee reports with remarks can be viewed.

9. Staff :-

This module is very much helpful to manage all staff's personal information and information can be updated time to time as per requirement.

Features:

- Keep all staff's record at one place
- Very easy to maintain & update staff records.

10. Configure Course/Subject :-

Course/Subject modules helps to update the details of the course like course code, name, duration, start date and end date.

Features:

- It can specify the course like course name, fees, duration for that course.
- Records about course start date and end date.
- Define course details like number of seats for each course, course streams (Science, commerce, arts etc.).
- Mail & SMS on enquiry can be formatted time to time course wise.

VI. DESIGN DETAILS

As shown in fig.1 the CIMS mainly comprises of the three components: Admin, student and staff.

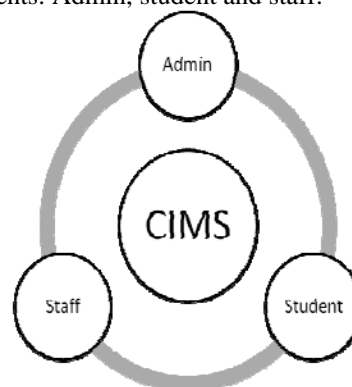


Fig.1 CIMS System

Fig2. Shows the all the activities carried out by the admin. As Shown in the fig.2 admin handles all the management activities.

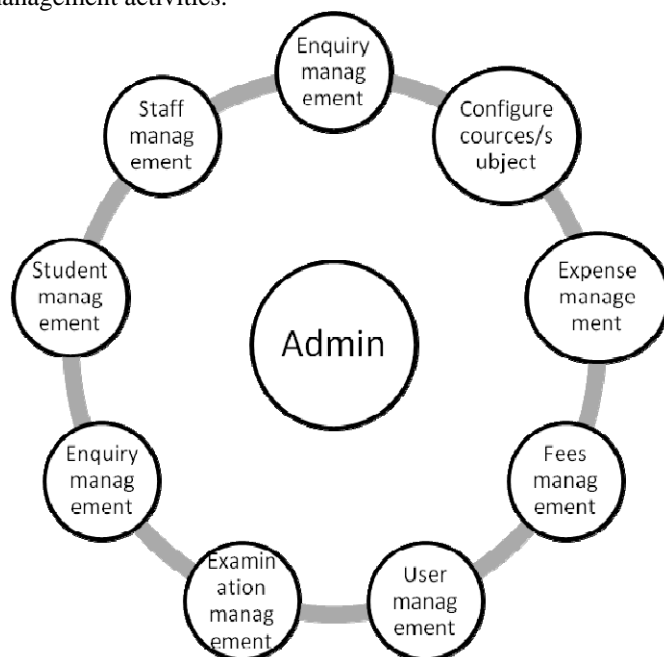
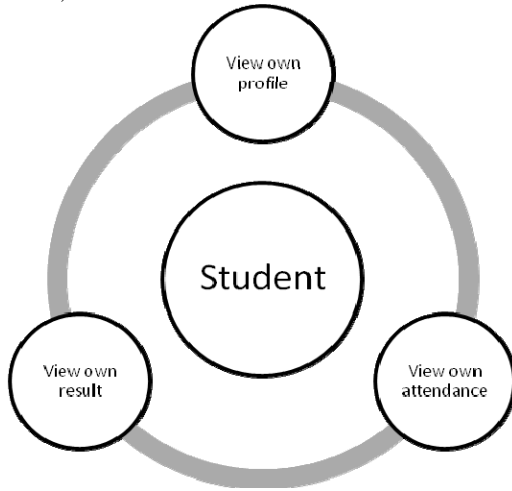


Fig.2 Admin Functionalities

Fig.3 shows the various functionalities of the student. The student can perform activities like View own profile, view own result, view own attendance.



g.3 Student Functionalities

Fig.4 Shows the functionalities of the staff. Staff can view exam result, view attendance and mark the attendance.

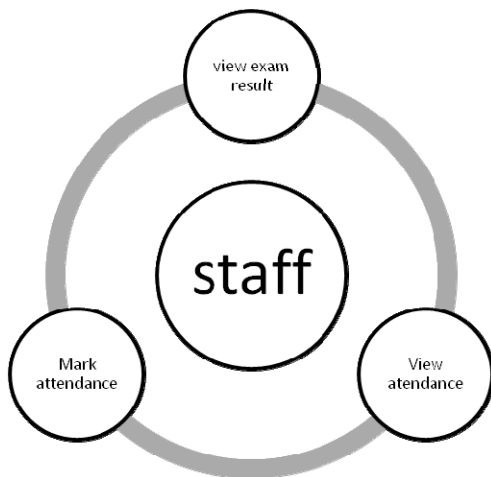


Fig.4 Staff Functionalities

VII. CONCLUSION

“Coaching Institute Management System” software developed for an institute has been designed to achieve maximum efficiency and reduce the time taken to handle the storing activity. It is designed to replace an existing manual record system thereby reducing time taken for calculations and for storing data.

The system is strong enough to withstand regressive daily operations under conditions where the database is maintained and cleared over a certain time of span. The implementation of the system in the organization will considerably reduce data entry, time and also provide readily calculated reports.

REFERENCES

- [1] S.R.Bharamagoudar, Geeta R.B., S.G.Totad, "Web Based Student Information Management System", International Journal of Advanced Research in Computer and Communication Engineering, Vol. 2, Issue 6, June 2013
- [2] G.Satyanarayana Reddy, Rallabandi Srinivasu, Srikanth Reddy Rikkula, Vuda Sreenivasa Rao, "Management Information System To Help Managers For Providing Decision Making In An Organization", International Journal of Reviews in Computing, ISSN: 2076-3328, E-ISSN: 2076-3336
- [3] Bishnu Prasad Gautam, Shree Krishna Shrestha, "Effective Campus Management through Web Enabled Campus-SIA (Student Information Application)", Proceeding Of the International MultiConference of Engineers and Computer Scientists 2012 Vol I, IMECS 2012, March 14-16, 2012, Hong Kong
- [4] Unnati A. Patel, Dr. Swaminarayan Priya R. , "Development of a Student Attendance anagement System Using RFID and Face Recognition: A Review", International journal Of Advance Research In Computer Science and Management Studies, Volume2, ISSN: 232 7782, Issue 8, August 2014
- [5] Unnati A. Patel, " Student Management System based on RFID Technology", International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 2, Issue 6, ISSN 2278-6856, November – December 2013