

Develop and Implementation of Attendance Management System

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Abstract—Attendance Management System is software developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class. The information is sorted by the operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student. Student attendance management system deals with the maintenance of the student's attendance details. It is generates the attendance of the student on basis of presence in class. This project is absolutely on the computer-based attendance management system. Computer based attendance system provide efficient means of determining eligibility criteria for students to meet examination requirements. Now, with the advent of the computerized attendance management system, problems associated with the manual processing of student attendance will be alleviated to its minimum level. Hence, computerization of attendance management system aimed at its incorporating a computer based system in processing attendance of student at promoting speed of operations and accuracy of result.

Keywords—Attendance, Educational, Management, database, Institute and Speed of operation.

1 INTRODUCTION

On this stage, the developers analyze the information gathered during the planning phase, study the flow of the current system and then started creating charts, diagrams and uses other tools to create a good flow of the proposed system. The researchers analyze the process on how it works and even the simplest problems that must give prioritize. And through these the researchers identify what are tools, software that they may use to proposed system. Who will be benefited in this project and how it will be implemented while limiting the cost of the project [6]. In the current scenario of various educational institutions to manage and maintaining student information is very tough task for any one. The whole academic record of the student information consist of monitoring their performance and progress changes periodically which is very huge workload on lecturers to handle and keep on updating the progress report of each and every student in against of their respective scheduled classes[3]. The traditional way of taking attendance through the lecturers is a manually in a register book in which they are used to do a manual calculation to maintain monthly attendance database of the students [9]. Attendance is taken every day on each working day whether it is college, school or any other institution and in this process every institution wasted lots of paper just for keeping the record [1].

2 RELATEDWORK

Nowadays, attendance is generally taken on the piece of paper in register. Using mobile for taking attendance, consumes not only less energy but also helps in reducing the wastage of paper and can serve as green way

for taking the attendance [2]. Use of paper, nowadays can be eliminated by the use of mobile or automating the process of attendance. As now generally every person has a mobile device and thus can read the easily on the spot to get the status of their ward in their college or school [6].

“Online Student Attendance System”, P. N. Grad et al, in this project, we gave access to three user i.e. Admin, Student, Others. This project is based on client-server. Here, the serve is Tomcat and client is JSP. In this project teachers or the admin will be filling attendance and sending message to the student who is absent [4]. They will have privilege to fill attendance form, update attendance form, send message to the guardian's account whose child is absent, also those attendances is less than 75%, and they also have privilege to send message to the students whose fees are pending [5]. He staff can also view the message whenever they want and also can modify the details of students. Parent has privilege to view attendance and to view message sent by the teacher. Students also have their account with the privilege to view message sent by the subject teacher and to view the attendance [10].

3 SCOPE FOR DEVELOPMENT OF THISPROJECT

The requirement of the user is to

- Access/ Search Attendance.
- Login to the system through the first page of the application
- Change the password after logging into the system
- View/change his/her Attendance details.
- Can get help through the help option to view different features of the system.

4 EXISTINGSYSTEM

The Existing system is a manual entry for the Admin and also Faculty. Here the attendance will be carried out in the hand written registers. Maintaining the records for the

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Faculty is a tedious job. The retrieval of the information is not as easy as the records are maintained in the registers. This software has developed for daily attendance of students. It made easy to access the attendance information of a particular student [8]. The information is stored through operators, and provided by teacher for related class. This software is helpful in evaluating the attendance eligibility of a student. Its purpose was to computerize the tradition way of taking attendance and generating of report automatically at the end or between of the session. This project has developed as a desktop application for a specific institute [3].

4.1 Drawbacks of existing system

- Not User Friendly
- Difficulty in report generating
- Manual control
- Lots of paper work
- Time consuming

5 PROPOSEDSYSTEM

In the present system all work is done on systems. The whole session attendance is stored in register and at the end of the session the reports are generated. We are not interested in generating report in the middle of the session or as per the requirement because it takes more time in calculation. It is made easy to access the attendance information of a particular student. The information regarding the attendance is sent by the Faculty to the admin for related class which has been taken using the

5.1 Advantages of proposed system

- Easy to access
- Reduce paperwork
- Better user interface
- Reduce time
- Easy to report generating

6 GENERALDESCRIPTION

User Characteristics: The target audience for CMS product is the college students/staff (Technical/Non- technical). The users for this system are

Administrator - The Super user of the system, all the details should be accessed.

Staff - A user with limited access rights.

6.1 Overview of functional requirements

6.1.1 Client

6.1.1.1 Hardware platform

PIII or above with RAM of 2 GB or 200 GB or above Hard disk.

6.1.1.2 Software Platform

Java Enabled Browser

6.1.2 Server

6.1.2.1 Hardware Platform

PIII or above with RAM of 2GB or above, 200 GB or above of Hard Disk.

6.1.2.2 Software Platform

HTML5, CSS3, JavaScript, MySql, WAMMP Server.

6.2 Specific requirements external interface requirements

- Simple, Attractive, User Friendly
- Self-Contained, Consistent, Self-Explanatory
- Robust.

6.3 Research design constrains

The design is used to gather all the Class attendance details in our department Faculty. Open College attendance management system applications identify the absentee's name, select option throw drop down box. Set IP address in the all the department systems to activate entire college attendance details to admin.

We have given suppurate user name and password to the department attendance in charge. Once faculty will be login to using our username password, open particular department attendance name list only. But admin all the department attendance details should be viewed and using their username and password and also report should be generated option is there in admin login form. This easy to maintain and update all the details throw in our attendance management system application used.

7 MODULEDESCRIPTION

- Admin Module
 - Report Generating
- User Module
 - MCA
 - CSE
 - IT
 - ECE

7.1 Admin module

7.1.1 Attendance Details

All the attendance given by the user is displayed here. Admin can view Attendance details, like how many students present in particular day and report generation is also possible.



7.2 Report generated is

- Attendance reports for students
- Analysis of faculty work
- Poor attendance report
- Communication through admin and user

8 USERMODULE

8.1 Students Details

In this module, Faculty can Enter the students details, like Student Name, Register Number, Semester, Year, Session, Attendance etc.,

This form is opened when user fill up his correct User Name and Password and User Type Is user. This form enables the user to fill up attendance of every student and see which student is short listed and what is the total attendance of each individual attendance in a particular Subject and in a particular day.

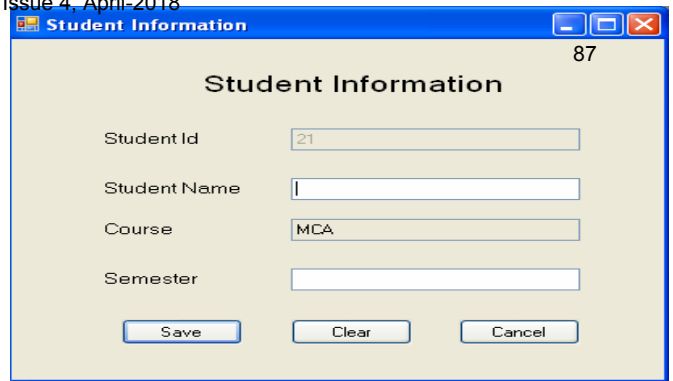
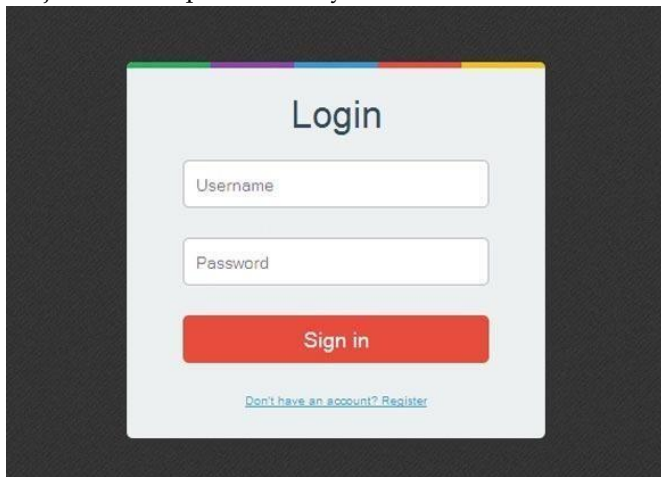


Fig 2: User login

8.2 Student information form

This form enables the Administrator to fill the name of Students and their Semester where the Student Id will change automatically when a Student is saved in the Database. And course Will Be remain same because this System is made for MCA Students.

Fig 4 Student information

9 ATTENDANCE MANAGEMENT SYSTEM(AMS)

College attendance management system automates the process of student attendance. Attendance system can computerize the following:

- Day to Day attendance entry by the department faculties.
- Daily report generation

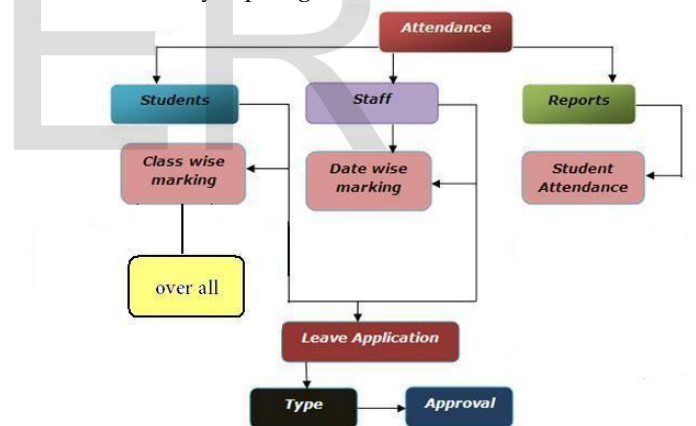


Fig 5 Architecture Frame work

Attendance Management System is an innovative tool to maintain and manage the attendance of students/employees. These tools can be software to monitor attendance details. Prefixing a word "online" to this tool makes this tool very resourceful technique. Attendance Management System is an innovative tool to maintain and manages the attendance of students/employees. These tools can be software to monitor attendance details. Prefixing a word "online" to this tool makes this tool very resourceful technique.

10 CONCLUSION

In this paper we have proposed an attendance management system where attendance has been taken in

the computerized way. By using the proposed system we are overcoming the problems of the manual entry. Here we are implementing a system where the attendance is taken and it automatically updates the attendance, marks details. We are also designing a system where in the attendance details have been sending in principal. This whole work is to access the details about the student attendance information and generate final reports. It also updates the students report directly on the 11. Server was reducing the faculty's time from logging the computer. In Future this system is very useful for all institutions and organization. Attendance management system is very useful for college to maintain the attendance records of the staff.

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