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Student Attendance System for Veerayatan Engineering College

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ABSTRACT

Student Attendance System is online internet based website which is used to maintain the student's attendance on daily basis. Manual control of attendance is time consuming and not effective therefore this project is designed to produce an automated solution for student attendance. It provide us a simple interface for maintenance of information regarding the attendance of the student along with percentage of minimum attendance required for making him/her eligible for exam. It has been developed in PHP, HTML & CSS as front-end & My SQL as back-end. By keeping in mind the concept of accessibility that authorized person can access the website from anywhere at any time.

Project Keyword: Online Attendance, Collage Attendance, Student Monitoring, Educational Institutes, Attendance System.

I. INTRODUCTION

Summary of Problem

The Existing system is a manual entry for the students. Here the attendance will be carried out in the hand written registers. It will be a tedious job to maintain the record for the user. The human effort is more here. The retrieval of the information is not as easy as the records are maintained in the hand written registers.

This application requires correct feed on input into the respective field. Suppose the wrong inputs are entered, the application resist to work, so the user find it difficult to use.

Objectives of project

Attendance Management System is developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in sa 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.

II. LITERATURE REVIEW

Patent Search Report Summary

1. Attendance Management System. (US20080272905A1,2008)

There is provided an attendance management system capable of easily checking attendance without requiring a special procedure or an individual authentication card or an attendance permission card. The attendance

management system includes a desk having an identifier which can be imaged, a mobile telephone having the camera function, and a center device for checking attendance according to the identifier of the desk and an identifier of the mobile telephone transmitted from the mobile telephone. According to the identifier of the desk and the identifier of the mobile telephone, it is possible to check which student (mobile telephone) is present at which lesson (desk). Thus, it is possible to easily check attendance.

2. College student attendance management system. (CN103268581A,2013)

The invention relates to a college student attendance management system, and belongs to the field of internet of things technology application. The college student attendance management system overcomes the defects that an existing college student attendance management system is low in efficiency, time is wasted, and management information cannot be timely sent, and is reliable. The college student attendance management system comprises RFID labels, a reader-writer, aggregation nodes, a remote data processing center and an attendance query terminal, wherein the RFID labels, the reader-writer, the aggregation nodes, the remote data processing center and the attendance query terminal are connected in a wired or wireless mode in sequence. The college student attendance management system achieves automatic roll call, and can timely inform teachers or head teachers or parents of names of students who are absent from schools in the first time.

3. Campus card attendance system. (CN103325150A,2013)

The invention discloses a campus card attendance system. The campus card attendance system comprises a central controller, and a storage module, an IC (Integrated Circuit) card read/write module, a system clock module, a keyboard interface module, an LCD (Liquid Crystal Display) module and a USB-TTL (Universal Serial Bus-Transistor-Transistor Logic) serial port module which are coupled with the central controller, wherein the USB-TTL serial port module comprises a USB controller, a USB transceiver, a clock oscillator and a UART (Universal Asynchronous Receiver/Transmitter) with all modem control signals which are connected with one another. The campus card attendance system disclosed by the invention adopts an STC12C5A32S2 single-chip microcomputer for control and a PHILIPS high-integration ISO14443A card reading chip for information collection, thus efficiently, easily and conveniently carrying out statistics for the attendance of students, simplifying the class attendance, reducing the waste of class time due to attendance time, and being convenient for teachers to clearly understand the attendance of each student.

4. Portable quick crowd attendance system. (CN104183029A, 2014)

The invention relates to a portable quick crowd attendance method which utilizes a smart phone to carry out real-time crowd attendance. A smart phone carrying an attendance system procedure pre-collects the face information of the attendance person, the face information is taken as a sample to be stored, in attendance, the front face photo of the attendance person is shot, and by comparing the photo with the sample, whether the person attends is judged according to the matching degree. The method has the beneficial effects that real-time attendance of the crowd can be quickly realized, so that the working load of the attendance persons is greatly alleviated and the attendance efficiency is improved; the method has importance significance on multiple occasions including quick roll call of students attending class, quick counting of the number of tourists, quick confirmation of participants and the like, and also can avoid the phenomena of masquerading and the like; since the smart phone is used for attendance, the carrying is convenient. According to the scheme, the cost is low, the popularization is convenient and the realization is easy.

5. Attendance system for student management. (CN104778544A, 2015)

The invention discloses an intelligent attendance system for student management and belongs to the field of educational management. The intelligent attendance system for student management comprises a master control module, wherein an input end of the master control module is connected with an information acquisition module, an output end of an information identification module is connected with an information output device, an input end of the information acquisition module is connected with a sensor, and an output end of the master control module is also connected with a network transmission device. The system can record number information of attendees, record facial images and time information of the attendees at the moment of attendance checking, upload the facial images and the time information to a transfer machine and call real images of the attendees from a central management computer according to the number information for

comparison and confirmation so as to make attendance records. The system gives alarms to remind the attendees and gives alarms to inform managers if the attendees are not right according to comparison results, so that the problem that people replace others for attendance is fundamentally solved.

III. PROPOSED SYSTEM

To overcome the drawbacks of the existing system, the proposed system has been evolved. This project aims to reduce the paper work and saving time to generate accurate results from the student's attendance. The system provides with the best user interface. The efficient reports can be generated by using this proposed system.

Advantages of Proposed System
□ It is trouble-free to use.
□ It is a relatively fast approach to enter attendance
□ Is highly reliable, approximate result
from user
□ Best user Interface
□ □ Efficient reports
Feasibility Study
Economically Feasibility
The system being developed is economic with respect to School or Collage's point of view. It is cost effective in the sense that has eliminated the paper work completely.
The system is also time effective because the calculations are automated which are made at the end of the
month or as per the user requirement. The result obtained contains minimum errors and are highly accurate as the data is required.
Technical feasibility
The technical requirement for the system is economic and it does not use any other additional Hardware and software.
Behavioral Feasibility
The system working is quite easy to use and learn due to its simple but attractive interface. User requires no special training for operating the system.
Materials / Tools required
Materials
□ Research paper
□ Study of website designing
Tools
☐ HTML, CSS, JAVASCRIPT
☐ Windows 7 operating system & above
□ Xamp/Wamp
\Box PHP

Activity Diagram

Activity diagrams are graphical representations of work flows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams are intended to model both computational and organizational processes (i.e. workflows). Activity diagrams show the overall flow of control.

Activity diagrams are constructed from a limited number of shapes, connected with arrows. The most important shape types:

- ☐ Rounded rectangles represent actions
- ☐ Diamonds represent decisions, Bars represent the start (split) or end (join) of concurrent activities
- ☐ A black circle represents the start (initial state) of the workflow
- ☐ An encircled black circle represents the end (final state)

Arrows run from the start towards the end and represent the order in which activities happen.

Activity diagrams may be regarded as a form of flowchart. Typical flowchart techniques lack constructs for expressing concurrency. However, the join and split symbols in activity diagrams only resolve this for simple cases; the meaning of the model is not clear when they are arbitrarily combined with decisions or loops.

Activity diagrams can be developed in various degrees of detail. They can be refined step by step. In the external view, activity diagrams, just like use case diagrams, exclusively represent business processes and activities from the outside perspective. Refining diagrams does not mean describing process details that are performed within the business system, which often leads to an unnoticed shift to the internal view

Figure 1

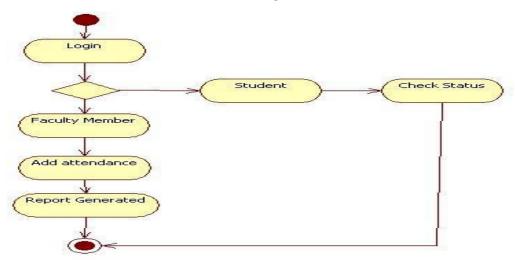




Figure 2 Home Page



Figure 3 Login Page for Students

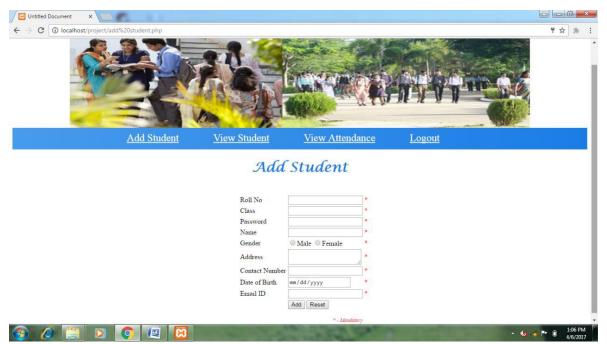


Figure 4 Student Registration Form

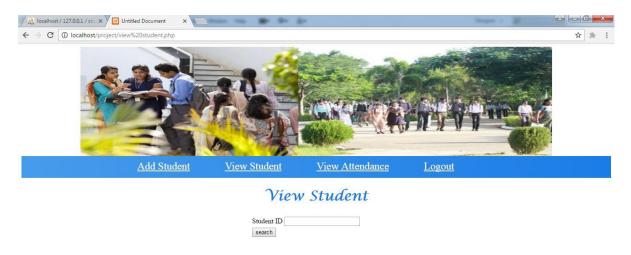




Figure 5 Check Attendance Page

IV. CONCLUSION

The Attendance Management System is developed using PHP fully meets the objectives of the system which it has been developed. The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the teachers and user associated with the system understands its advantage. The system solves the problem. It was intended to solve as requirement specification.

V. FUTURE SCOPE

The project has a very vast scope in future. The project can be implemented on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed software of database Space Manager ready and fully functional the client is now able to manage and hence run the entire work in a much better, accurate and error free manner. The following are the future scope for the project.

- ☐ Discontinue of particular student eliminate potential attendance.
- ☐ Bar code Reader based attendance system.
- ☐ Individual Attendance system with photo using Student login
- ☐ Biometrics based attendance system

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