



BARCODE BASED ADMISSION AND ATTENDANCE SYSTEM

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ABSTRACT

Student attendance play significant role in order to justify academic outcome of a student and college as overall. Unfortunately, there is no automated attendance record keeping application available in colleges. There is a need for a tool to systematically keep the students attendance record due to increasing number of college students. The project that we are going to make is to help the teachers in our college to avoid maintaining the registry book. This project uses a barcode scanner uses Barcode scanner to take the attendance of students entering the lab. Each student's ID card will have a barcode at the back side of it. This barcode contains unique data of the student such as roll number, branch and year. Etc. Student will scan their barcode at the end so that the student can't cheat. The display screen will show the attendance of the particular student after scanning his/her barcode. Teachers and administrator will only have access to the system with their respective login ID's and passwords. General Terms Barcode Scanner, ID card . The system designed in a way that can differentiate the hours of theoretical and practical lessons since the rate of them is different for calculating the Different presentation of information is obtainable from the system. The test case of the system exposed that the system is working enormously and is ready to use to manage to attend students for any department of the University. percentages of the students' absence. Insertions, deletions, and changes of data in the system can do straightforward via the designed GUI without interacting with the tables.

INTRODUCTION

This project is developed to ease the work of students. The project involves a card which contains a barcode which is nothing but a unique card that is assigned to the student. This card can be refilled as and when required by the student with the help of admin. This card is useful for the student in places like library, student attendance and paid college fees. When the card is inserted the unique id stored is scanned and accordingly student information displayed in tabular format. This card can be used to daily student attendance. This is done by scanning the unique id stored in the card which is the sent to the server where the student's document is stored and is directly sent from the server wherever needed. Thus the user doesn't have to carry its documents always. The student can use this card in library to pay fine and the amount of fine will be calculated depending on the information stored which is retrieved with the help of an ID stored in the card. Same way in case of stationary shop where the cash amount is deducted from the student's account and same way in case of canteen. Thus the student just needs to carry the portable card. Thus this card is very beneficial for a student and makes many of its work easy The system is a Web-based application developed for daily student attendance in departments within the university. It facilitates access to the attendance of a particular student in a particular class. This system will also help in generating reports and evaluating the attendance eligibility

of a student. The system is not only improving the work efficiency, student's study and development, but also can save human and material resources

LITERATURE SURVEY

There are numerous proposals for Automatic Attendance Management Systems in the literature and in the market. Nowadays, barcodes are frequently used in most industries, supermarkets, and wherever information needs to be read automatically Attendance is the act or fact of attending (being present at) collage. Also, attendance is used to define the number of persons present on a particular day at collage. An attendance policy provides the guidelines and expectations for students' attendance at collage as defined, written, disseminated, and implemented by the collage. Depending on the collage, attendance may be entered by the class representative or by the teachers, or possibly, both. Attendance can be recorded in many ways such as using web based, biometrics and barcode scanner. Since most of the application developed nowadays requires the world wide accessibility, web based system is the most common attendance system that available.

IMPLEMENTATION

The barcodes would be attached at the back of would be embedded in the barcodes will contain unique data of the student such as matriculation number, department, faculty, year and all other important information about the student. Students are able to participate in the class attendance only by scane their identity card through the barcode reader. They can view their attendance percentage which will motivate them to control their class attendance reputation. With real time clock capability of the system, attendance taken will be more accurate since the time for the attendance taken will be recorded. ID cards generally give lots of advantages to the user.

For this study, we explore the advantages of using ID cards to fill in class attendance. One of the advantages is that ID card will make it easier for students to fill in the class attendance. The time constraint of using ID card to fill in class attendance is relatively small compared to the traditional attendance system which use paper sheet. Another improvement is the possibility to process the information directly on the card. For this work, students have to sign in electronically with ID card at the beginnings of each class. Each student has their own ID card to fill in class attendance signing system. By using this system, students can discipline themselves to always carry their student ID card as it is compulsory for attendance marking.

The computer that implements this system is equipped with a barcode reader. Students fill in their class attendance by swiping their card at the barcode reader which automatically records the attendance information in the server. The reader, in turn, communicates with card, thereby acting as the intermediary before sending the data to the server. The barcode reader wiggles the barcode on the ID card and record the data in the server. That way, data can be processed immediately and in a totally automated way. At the end of the semester, lecturers can get the calculation of the students' attendance percentage more efficiently and view the standard attendance report.

The Student admission Attendance Management System has designed with the vb.net and implemented with the vb.net Framework. In order to increase use of the application and make it easy to use and attractive, css and its asp.net libraries, and c# use. In this section, explain the system contents will be presenting

Design is very important aspect need to be emphasized in any application development process. Design determines the success of an end product.

Student Details: This module deals with the allocation of roll no and personal details for new batch. It will generate personal details of student and academic details of the students with the passport photo

Staff Details: It helps to allot the subject and the subject code to the particular staffs. It provides the facility to have a user name and password to the staffs.

Attendance Details: It will help to get the report of weekly and consolidate of the attendance.

Report Details: Report can be taken by daily, weekly and consolidate. Weekly reports get all hour details of attendance starting date to ending date and displays the status. The consolidated report presents all student attendance details starting date to ending date.

Staffs Module

Attendance Details: It assists the staff to mark attendance for their subject. This will authenticate the staff before making the entry .This login can take the attendance of student and view the attendance of student.

HOD module

The head of the department at the university uses this user type to manage the department students. This user can create courses, credits of the courses, theoretical and practical hours for each course, create,

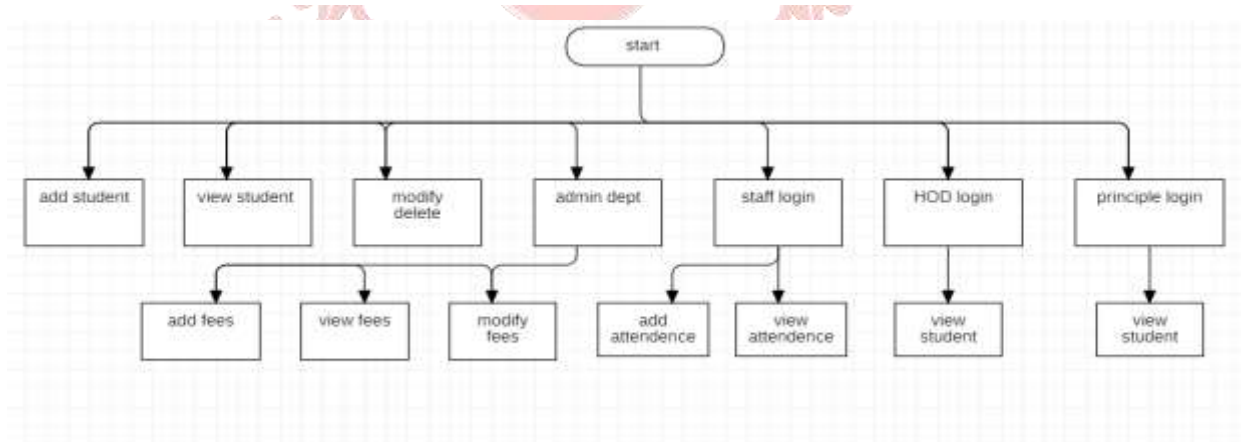
Principal login

This login can view student attendance and student college fees.

I. HELPFULHINTS

A. Figures andTables

- **Administrator Module**



4.3. Administrator Module

CONCLUSION

The application offers reliability, time This project concludes that generating the unique identification of students and generating the barcode. Perceived security threats to existing identification technologies are compelling factors to pursuit for evolving smart card technology. This card can be refilled as and when required by the student with the help of admin. There are many modules such as admin login, principal login, HOD login and staff login. Admin can fill the college fees of student. Through this barcode admin can view the information

about students, delete and modify student. Staff login can take attendance of students and view attendance of students.

REFERENCES

1. T.-C. Li, H.-W. Wu, and T.-S. Wu, "The Study of Biometrics Technology Applied in Attendance Management System," 2012 Third International Conference on Digital Manufacturing & Automation, pp. 943–947, Jul. 2012.
2. Ujan and I. A. Ismaili, "Biometric attendance system," The 2011 IEEE/ICME International Conference on Complex Medical Engineering, pp. 499–501, May 2011.
3. Z. Yongqiang and L. Ji, "The Design of Wireless Fingerprint Attendance System," 2006 International Conference on Communication Technology, pp. 1–4, Nov. 2006.
4. H. Oktavianto, "Image-based Intelligent Attendance Logging System," pp. 1–6, 2012.
5. M. I. Moxsin and N. M. Yasin, "The Implementation of Wireless Student Attendance System in an Examination Procedure," 2009 International Association of Computer Science and Information Technology - Spring Conference, pp. 174–177, 2009.
6. W. Adi, "System Development Life Cycle Methodologies." 2008
7. https://www.google.com/search?q=w3schools&rlz=1C1CHBF_enIN889IN889&oq=w3&aqs=chrome.2.69i59j69i57j0l6.12829j0j8&sourceid=chrome&ie=UTF-8
8. https://www.google.com/search?safe=active&rlz=1C1CHBF_enIN889IN889&sxsrf=ALeKk03tM97Of42wF5PrfCrZptszk6OzQ%3A1587490593618&ei=IS-fXsCrJY6P4-EPm4642As&q=vb.net+tutorial&oq=vb.net&gs_lcp=CgZwc3ktYWIQARgAMgUIABCRAjFCAAQkQIyAggAMgIIADICCAyAggAMgIIADICCAyAggAMgIIADoECAAQRzoECCMQJzoHCAAQFBCHAjoFCAAQgwE6BwgjEOoCECdQpcFWOXuB2CgjAhoAXACeASAAyGkiAG_NpIBCzAuMi43LjEuOS0xmAEAoAEBqgEHZ3dzLXdpereABCg&sclient=psy-ab