SMART GATE

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ABSTRACT

As technology is increasing day-by-day the people are becoming more smarter so we introduced the app smart attendance in a smarter way.Smart attendance monitoring system using barcode is an application installed in android OS mobiles, this application is an standalone application .

The existing attendance monitoring system doesn't look much smarter than the one which is developed now. The existing application takes much time to enter an information about the student. Processing with the each and individual student is a time lagging process. Very individual students information should be gathered and entered into an excel sheet every time. This may increase the work of the staff.

when a student enters into this app through android mobile ,the application opens a page which shows different modules such as registration, login, logout, generate attendance, report generation, about us.By opening this app, first we have to register with our name, id and academic percentage. And each individual is provided with a unique barcode which is shown to the barcode scanner, when we click on login and logout. After completion of this procedure it generates a record automatically and is saved in our SDcard.

INTRODUCTION

Android is a linux based operating system for mobile devices such as smart phones and tablet computers. It is developed by the open handset pact let by google.

Android code is an open source under the apache license .the android open source project (AOSP) is tasked with the preservation and further development of android. android was planned as the best advertising smartphone platform worldwide.

The project is a method that takes down students attendance using barcode. this is an fascinating concept set forth to automate the traditional attendance system by using authentication technique. the traditional system requires a register maintained for manually marking attendance for the students which is time consuming. hence this proposed project eliminates the need of maintaining attendance sheet. the projected system uses barcode method for authenticating students with a unique barcode that represents their unique id. every student is provided with a card that contains the barcode. students just have to scan their cards using barcode reader and the system notes down their attendance as per dates. system then stores all the students attendance proceedings and generates debtor list and reports for admin. such kind of application is very useful inschool as well as in college for taking daily attendance.

About Database:

Database is a collection of information that is organized so that it can easily be accessed ,managed ,and updated. The data is typically in such a way that supports processes requiring information.

A Database management system is a computer software application that interacts with the user ,other applications ,and the database itself to capture and analyze data.

Database in our application is used to store the whole information about the students login, logout , name ,id ,percentage. The percentage existed can be updated semester wise .and also can enter the new user into the database and also can delete the existed user from the database.

RELATED WORK

EXISTING SYSTEM:

The existing attendance monitoring system doesn't look much smarter than the one which is developed now. The existing application takes much time to enter an information about the student. Processing with the each and individual student is a time lagging process. Very individual students information should be gathered and entered into an excel sheet every time. This may increase the work of the staff.

DISADVANTAGES:

- This existing system takes much time to enter an information almost 15minutes in an hour.
- Through this system there are more chances for malpractice by students.
- Information may not be accurate.
- It cannot be accessed anywhere.

PROPOSED SYSTEM:

As existing system is not so developed and has many disadvantages , so keeping all this in mind we had thought in a smarter way and designed an applicationwhich is based on android and is "SMART ATTENDANCE".

Through this application we can make the work faster and easy. and there is no chance of malpractice as each and every student contains some individual barcodes.

ADVANTAGES

- Students will be more regular in presence their classes since now no attendance sheet signature is requisite, so no friend or any other student can make an attendance on behalf of others as barcodes are unique for every student.
- Teachers do not necessitate to waste their time around 15min of an hour taking attendance of students.
- No need to keep up attendance sheet as the attendance are automatically stored in database.
- The system helps the faculty to easily find out defaulters.
- Users may easily get attendance history of a particular student.
- It saves time, cost, efforts and institute resources

PROCEDURE:

- Registration
- Login
- Logout
- Generate attendance

Registration:
This module is for registration of a candidate. With the help of this application ,we can add our details like name ,id ,and academic percentage.

Login:
This module is used for logout purpose when we show the barcode to the barcode scanner. It's functionality is to enter Login time.

Logout:
This module is used for Logout purpose when we show the barcode to the barcode scanner. Its functionality is to enter Logout time.
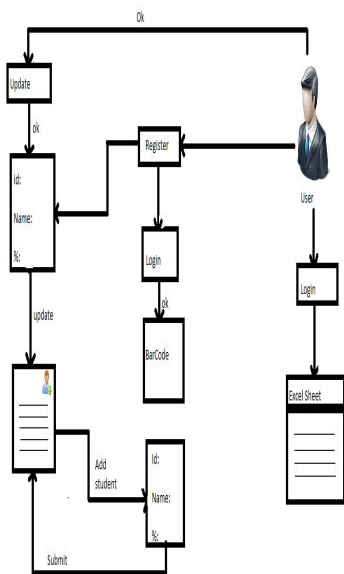
Generate Attendance:
In this module; after login and logout an excel sheet is generated and is saved in SDcard. If any user wants to know their candidate details they can see in the generated excel sheet.

SYSTEM ARCHITECTURE:

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FUTURE SCOPE:

   Our application is providing the information about login and logout times of a candidate. Finally, user can update the existing system by adding more features. This app can also be updated in the detailed description about the student. This can also be used or implemented as a web based application in further.

Conclusion:

In order to reduce the work burden for the staff that to enter the whole process into a paper and then converting it into an excel sheet is a time taking process, so we developed an application to save the time and making the process easier.