

**SCHEMING OF EFFICIENT ATTENDANCE STRATEGY BY
INTEGRATING HARDWARE AND SOFTWARE COMPONENTS****P.Priyanka¹, K.Ramesh²**¹M.Tech Student, Dept of ECE, Vidya Vikas Institute of Technology, Chevella, R.R Dist, T.S, India²Assistant Professor, Dept of ECE, Vidya Vikas Institute of Technology, Chevella, R.R Dist, T.S, India**ABSTRACT:**

Personal Safes are innovative cases of locking storage that make use of fingerprint recognition knowledge to permit access to simply those whose fingerprints you prefer. It contains the entire essential electronics to allow accumulating, removing, and verifying fingerprints with just touch of a button. The assessment of fingerprints, in particular latent fingerprints, can be mainly tricky task in all fingerprint science. The most important aim is to intend an Attendance monitoring system by means of ARM7 and QR code. Considering an example that, in a class of n students, are taken as sample to carry out experiment. The faculty contains n QR images of students with him. The images equivalent to every student who is present in class is scanned by faculty by mobile which contain QR reader software installed in it, which verify attendance of students. This data is sent towards ARM memory all the way through GSM, by means of which the data is sustained. The students who contain less than 75% attendance, their information was sent to PC through the Ethernet and to their parents all the way through free SMS services which saves time along with manpower which is scope of project. A QR code is a 2-dimensional bar code which means that pieces of information are programmed horizontally as well as vertically rather than being only horizontally programmed like a standard bar code. QR Code generator is used to produce QR Codes. QR Reader is employed to read QR Code information. To read a QR code, a smart phone set up by means of a camera as well as a QR code reader is necessary. The QR code

reader is a function which employs camera to confine code as well as decode it.

Keywords: *Fingerprints, Attendance monitoring system, QR reader, QR images.*

1. INTRODUCTION:

A fingerprint is a notion of friction ridges found on inner surface of a finger. Personal Safes are innovative cases of locking storage that open with simply touch of finger. These products are considered as access denial protected storage in support of medications, documents, as well as additional valuable or potentially destructive items. These make use of fingerprint recognition knowledge to permit access to simply those whose fingerprints you prefer [1]. It contains the entire essential electronics to allow accumulating, removing, and verifying fingerprints with just touch of a button. Stored fingerprints are maintained even in event of total power failure or else battery drain. These eliminates the requirement for keeping track of keys or else remembering a grouping password, or PIN. It can be opened when an approved user is present, as there are no keys to be copied or stolen, or locks that can be selected. The assessment of fingerprints, in particular latent fingerprints, can be mainly tricky task in all fingerprint science [2]. No matter how competent an individual might be in all the associated

areas, it is extra capacity to precisely evaluate latent prints against recognized prints that allows examiner to be called a fingerprint expert. The most important aim is to intend an Attendance monitoring system by means of ARM7 and QR code as shown in fig1. The images equivalent to each student who is present in class will be scanned by faculty by mobile which have QR reader software installed in it, which verifies attendance of students. This data will be conveyed to ARM memory through GSM. Then all the way through Ethernet, this data will be send to PC, by means of which data is collected. In existing system as shown in fig1 we are using finger scan technology, which takes an enough amount of time for procedure of recognizing fingerprints to be completed.

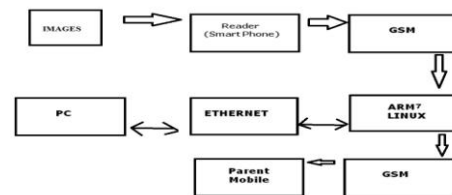


Fig1: An overview of system of attendance monitoring.

2. METHODOLOGY:

Considering an example that, in a class of n students, are taken as sample to carry out experiment. The faculty contains n QR images of students with him. The images equivalent to every student who is present in class is scanned by faculty by mobile which contain QR reader software installed in it, which verify attendance of students. The most important aim is to intend an Attendance monitoring system by means of ARM7 and QR code. This data is sent towards ARM memory all the way through GSM, by means of which the data is sustained. The students who contain less than 75% attendance, their information was sent to PC through the Ethernet and to their parents all the way through free SMS services which saves time along with manpower which is scope of project. A QR code is a 2-dimensional bar code which means that pieces of information are programmed horizontally as well as vertically rather than being only horizontally programmed like a standard bar code. The functioning of project can be explained in following steps such as generation of QR Images for student data by means of mobilefish.com online website. Install software of QR Reader in smart phone. Scan

of QR Images with assist of smart phone's camera. Send decoded information by means of GSM to ARM7. QR Reader is employed to read QR Code information. To read a QR code, a smart phone set up by means of a camera as well as a QR code reader is necessary [3]. Maintaining of student data as well as updating the student data in ARM7 Processor. Calculating of attendance percentage and sending it to PC for every two weeks. If any student has less than 75% attendance, then send attendance to mobile of Parent mobiles.

3. AN OVERVIEW OF HARDWARE

PERFORMANCE:

The most important aim is to intend an Attendance monitoring system by means of ARM7 and QR code. The students who contain less than 75% attendance, their information was sent to PC through the Ethernet and to their parents all the way through free SMS services which saves time along with manpower which is scope of project. SAM's S3C241A is intended to make available hand-held devices and wide-ranging applications with low-power, as well as high-performance microcontroller solution in minute die size. It is cost effectual and consistent. The images

equivalent to each student who is present in class will be scanned by faculty by mobile which have QR reader software installed in it, which verifies attendance of students. This data will be conveyed to ARM memory through GSM. Then all the way through Ethernet, this data will be send to PC, by means of which data is collected. The system of Global Positioning is systems of satellite based navigation that sends and receive radio signals. The basis of Global Positioning technology is a set of 24 satellites that are constantly orbiting earth. These satellites are up to with atomic clocks and give out radio signals as to precise time and their location [4]. These radio signals from satellites are picked up by means of GPS receiver. Once GPS receiver locks on to four or else extra of these satellites, it can triangulate its place from the known positions of satellites. A QR code is a 2-dimensional bar code which means that pieces of information are programmed horizontally as well as vertically rather than being only horizontally programmed like a standard bar code. QR Code generator is used to produce QR Codes. By means of mobilefish.com online website we can produce the QR Code. QR Reader is employed to read QR Code information. To

read a QR code, a smart phone set up by means of a camera as well as a QR code reader is necessary. The QR code reader is a function which employs camera to confine code as well as decode it [5].

4. CONCLUSION:

Personal Safes are innovative cases of locking storage that open with simply touch of finger and are considered as access denial protected storage in support of medications, documents, as well as additional valuable or potentially destructive items. In existing system we are using finger scan technology, which takes an enough amount of time for procedure of recognizing fingerprints to be completed. Stored fingerprints are maintained even in event of total power failure or else battery drain. No matter how competent an individual might be in all the associated areas, it is extra capacity to precisely evaluate latent prints against recognized prints that allows examiner to be called a fingerprint expert. The most important aim is to intend an Attendance monitoring system by means of ARM7 and QR code. Considering an example that, in a class of n students, are taken as sample to carry out experiment. The faculty contains n QR images of students with him. The

images equivalent to every student who is present in class is scanned by faculty by mobile which contain QR reader software installed in it, which verify attendance of students. This data is sent towards ARM memory all the way through GSM, by means of which the data is sustained. The students who contain less than 75% attendance, their information was sent to PC through the Ethernet and to their parents all the way through free SMS services which saves time along with manpower which is scope of project. The functioning of project can be explained in following steps such as generation of QR Images for student data by means of mobilefish.com online website. Install software of QR Reader in smart phone. Scan of QR Images with assist of smart phone's camera. Send decoded information by means of GSM to ARM7. Maintaining of student data as well as updating the student data in ARM7 Processor. Calculating of attendance percentage and sending it to PC for every two weeks. If any student has less than 75% attendance, then send attendance to mobile of Parent mobiles.

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