

Barcode based Student Attendance System

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Abstract: The main purpose of this given system is taking student attendance. Student attendance play most important role in academic year in college. There is no application of automatic attendance available in college. Using this project no need to maintain student attendance book for college teacher. In this project use barcode scanner for attendance. Barcode scanner take attendance when student entering in lab. Barcode is on the student back of the ID card. This barcode contain unique data like student name, roll name branch and year of that student. Student will scan ID card then display unit show the attendance of that student after scanning barcode. This is very simple technique to handle teachers and administrator.

Index Terms: Barcode scanner, ID card

I. INTRODUCTION

Barcode based attendance system is software based system to take attendance and maintain attendance of that particular student attendance. This system contain barcode scanner machine to scan. A barcode consist of series of parallel adjustment bars and spaces.

Types of barcode are:

1. Alpha-numeric barcode

Code 128: very capable code, excellent density, in very wide use word wide

Code 39: General purpose code.

Code 93: Compact code similar to 39.

LOGMARS: It is also general purpose. used for government specification.



2. Numeric-only barcodes

Coda bar: Older code often used in library system.

Code 11: Used in telecommunication equipment.

EAN-13: European article numbering international retail code.

EAN-8: It is used in some small product.



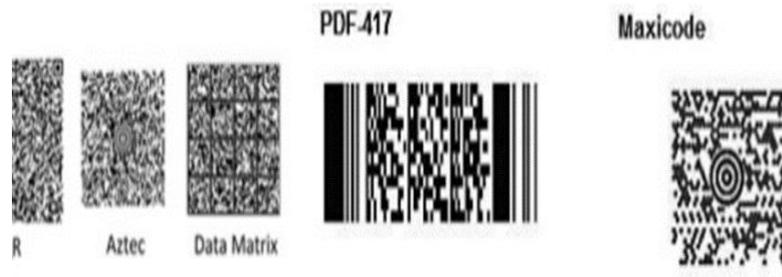
3.2-Dimentional barcodes

PDF417: Excellent for encoding large amount of data.

Data matrix: Can hold large amount of data

Maxicode: Fixed length

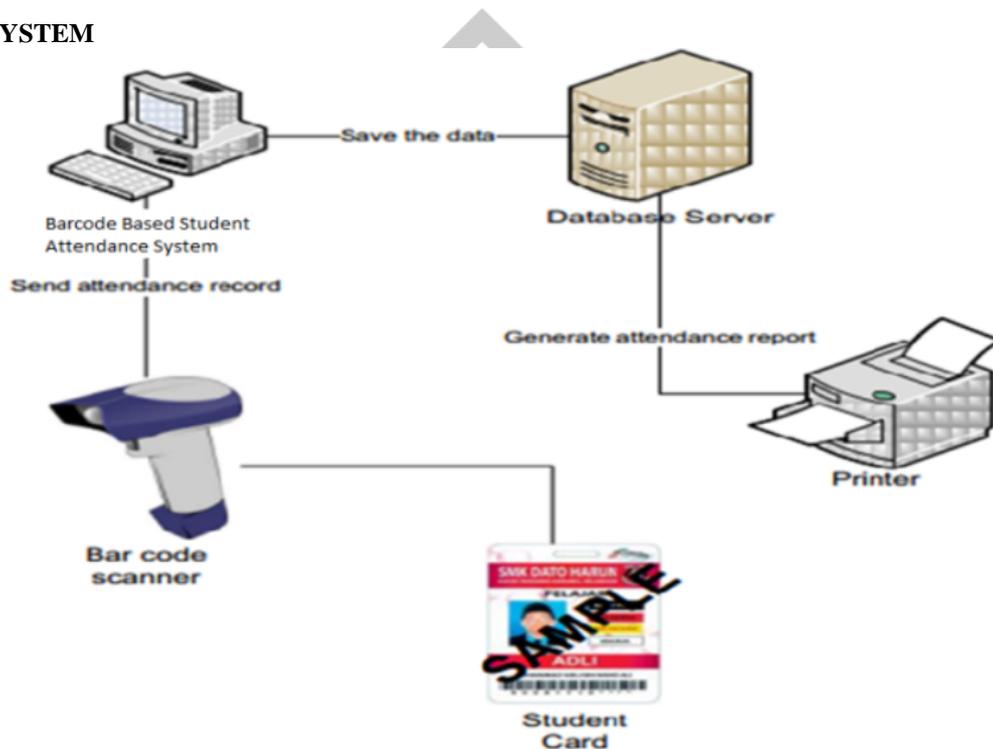
OR Code: Used for material control



II. NEED OF PROJECT

The barcode attendance system is use for marking the student attendance during the practical exam. This system is very easy to handle and fast to access, Thus college access student attendance information very fast when they required. This system is software as well as hardware component. The professor will not have mark attendance by manually by calling out student name or student number. As well as will not make defaulter list manually it is done by manually, which generates a defaulters list when the student attendance falls below 75%.This system reduces the time required to all process.

III.PROPOSED SYSTEM



Generally attendance is take in college is paper based, which may sometimes cause errors. In manual attendance it will take more time to attendance. So the proposed attendance system uses Barcode reader to take attendance. In this system the student have 1 barcode tag with ID is on back side of the tag. B.B.S.A.S use Barcode reader, Entire student details and barcode number is store through software in computer system. In barcode scanner consist of 3 different part like sensor and detector. First red light is on that barcode the red light scan the white and black lines and is converted into the matching text. When red light is on the barcode then this light is reflected then this reflected light is analog signal then is converted into a specific form. The decoder is analysis the signal and get converted into specific text format. This text has been store in particular location.

The Barcode reader Convert the barcode into character and this character is on the computer where the cursor s pointed at that particular moment. This data that is read form the barcode is usually the Student Personal Roll Number which identifies every individual student. This Student PRN is then used to mark attendance of that particular student for that particular lecture.

The entire time table and the details of the student PRN is stored within the database.

III. CONCLUSION

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