CHAPTER 1
INTRODUCTION

DESCRIPTION

Attendance Management System is an application developed for daily evaluation of student's attendance. It is facilitated to access the information of attendance of a particular Student in a particular subject of study. The information is sorted by the faculties and admin, as provided by the system for a particular student throughout a complete semester. This system will also enable the evaluation of student regular presence in various subjects.

Attendance being a very necessary side of administration may normally become an arduous, redundant activity, pushing itself to inaccuracies. The traditional approach of making roll calls proves itself to be a statute of limitations as it is very difficult to call names and maintain its record especially when the ratio of students is high. Some organizations use document-oriented approach and others have implemented these digital methods such as biometric fingerprinting techniques and card swapping techniques. However, these methods prove to be a statute of limitations as it subjects students to wait in a time-consuming queue. Post completion of face recognition, the system generates the name and identification number of the students who are present and identified in the image. Then attendance is marked in front of the student names in the excel format with respective date and subject of the lecture.

EXISTING SYSTEM

In the existing methods, some of the disadvantages are listed.

- Staff has to take attendance manually.
- If the student fails to bring his id card then he will not be able get attendance.
- It is a tedious job to maintain records.
- It is difficult to generate consolidated reports.
- Sheets may get lost.

PROBLEM DEFINITION

- This project attempts to make use of dlib library to perform the face recognition for the purpose of marking attendance.
- Though many traditional methods are existed, those are vulnerable but our system will minimize the proxies.
- Face recognition proved to be a productive method for taking attendance in an institution with high precision and less computational complexity.

PROPOSED SYSTEM

- To overcome the drawbacks of the existing system proposed has been evolved.
- It aims to reduce the paperwork and save time for generating the accurate results from the attendance system.
- The system provides the best user interface and efficient reports are generated.

ORGANIZATION OF THE PROJECT

- Literature reviews of already existing proposals are discussed in chapter 2.
- Chapter 3 has system specification which tells about the software and hardware requirements.
- Chapter 4 discusses the overall project and design which tells the brief description of each of the modulus in this project.
- Chapter 5 has the implementation and experimental result of the project.
- Chapter 6 deals with the conclusion and future work.
- Finally chapter 7 deals with the references.