Project Proposal on Attendance Automation

This project is presented by NAVTTC trainees

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Management

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➤ Introduction

Attendance Management System is web based software developed for daily student attendance in schools, colleges and institutes. If facilitates to access the attendance

information of a particular student. This system will also help in evaluating attendance Eligibility criteria of a student.

➢ Purpose

The purpose of developing attendance management system is to automate the tradition way of taking attendance.
The proposed solution offers a QR code for the attendees to scan it via web application. The QR code along with the attendee's identity taken by the application will confirm his\her attendance

▯ The Application works in the described manner:
- o Admin Panel
- o Admin can login via login.html o User name (admin) password (admin) o Admin can add and delete student details o Generate QR code by adding student name o Set the id in Database same id set as QR value

- o After registration student can mark attendance via scanning QR. The application detects the QR Code decodes it ,if the QR id does exits the database it will fetch the data of the student from the database and add the attendance in another table of row.

➢ Scope

The scope of the project can be deployed, i.e. the project is developed as a web application, and it will work for a particular institute or organization. But later on the project can be modified to operate it online and could be add many features 'SKY ON THE LIMITE' (This solution can be applied raspberry pi).

➢ Development Tools

- Python language , flask module, SQL ALCHEMY module, pyzbar module, opencv module , numpy module , datetime module.
- **Front End** ○ Bootstrap

- SQLLITE DATABASE

➢ Requirement for running project

Install all these libraries

Flask
Flask-SQLAlchemy

opencv-python qrcode

 numpy pyzbar

➢ Drawbacks

- There is no restriction for users to allowed just two attendance in a day , i.e check in check out.
- There is no filtering method that is why admin can not sort or filter specific students attendance or details.