

Student Attendance System Using Automation Edge Tool

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Abstract: Automation is the most frequently spelled term in the field of computer. The hunger for automation brought many revolutions in the existing technologies. In Automated Attendance System, system is going to use Automation Edge tool. This system helps teachers to mark student attendance. Teacher gives input file which is generated from android app. File consist of present or absent students roll number along with date and time. System will scan the input file and marks the attendance for present student as 1 and absent student as 0.

1. GENERAL INTRODUCTION

Attendance is a basic and most important criteria needed in all the education system.

In most educational institutions the attendance is taken manually. It is not only time consuming, but also unsecured and unreliable and it can be lost. To overcome these problems system has been developed a better system which is Automation based. In this system records are kept safe and secure, also the attendance information of particular or all students of particular class can be accessed easily and without time consuming, the report is generated automatically. The purpose of developing automation attendance system is to computerized the tradition way of taking attendance.

2. OBJECTIVES

The Existing system is a manual entry for the Admin and also Faculty. Here the attendance is carried out in the hand written registers. Maintaining the records for the Faculty is a tedious job. The retrieval of the information is not as easy as the records are maintained in the registers. Now a day's, taking attendance manually is become a big issue as students are giving proxy attendance so the main reason to implement this project is to mark the attendance automatically using automation edge tool and keep track of daily as well as monthly student's attendance record.

Some basic features:

- Reduce paperwork and save time with automation based attendance system.
- Auto generates report like defaulter list.
- Send attendance status to students and staff through Gmail.
- Secured system as no student is able to mark proxy attendance.

3. PROPOSED SYSTEM

The main objective of this project is to develop a better system which is Automation based. In this system records are kept safe and secure and the attendance information of particular or all students of particular class can be accessed easily and without time consuming, the report is generated automatically. And at the end of month system will calculate average attendance of each subject for each student and generate defaulter list which will be later send to teacher as well as defaulter student through Gmail.

The process of proposed system is shown in below figure.

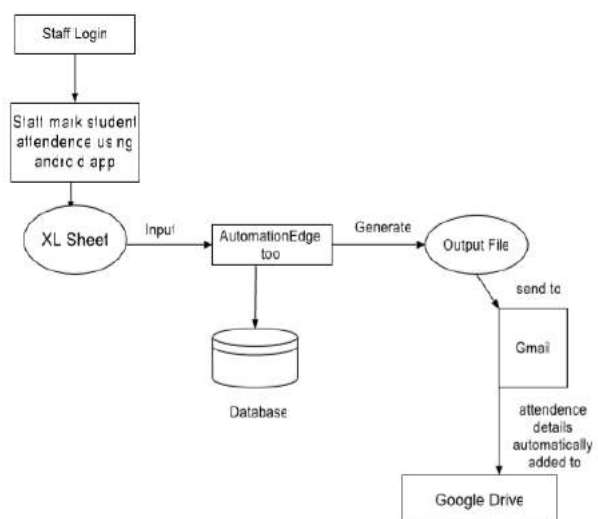


Figure1: System Architecture

Above diagram shows the flow of the project. The staff will be login first and then attendance should be taken by the staff by using android app. Taken attendance will be store in one document and then that will give as input to the process studio. The process studio will evaluate that document and generate defaulter list at the end of the month. The defaulter list will be send to the staff as well as students by process studio.

On daily bases system will generate sheet and store it on Google drive. Sheet consists of date of lecture, time, subject, etc. At the end of month system will calculate average attendance of each subject for each student and generate defaulter list which will be later send to teacher as well as defaulter student through Gmail.

3.1 Software required for developing the application:-

- **Operating System:** Android Windows
- **Language:** java, PHP
- **Platform:** Automation Edge Process Studio

3.2 Algorithm & Design

1. Enter Input into the file which contains the roll number, name, and present/absent numbers.
2. Android app generates XML file.
3. XML file is the input to process studio.
4. Store this information into the database.
5. Automation edge tool generates the output file (defaulter list) and it sends to the Gmail of faculty member.
6. Attendance details will be automatically added into Google Drive.

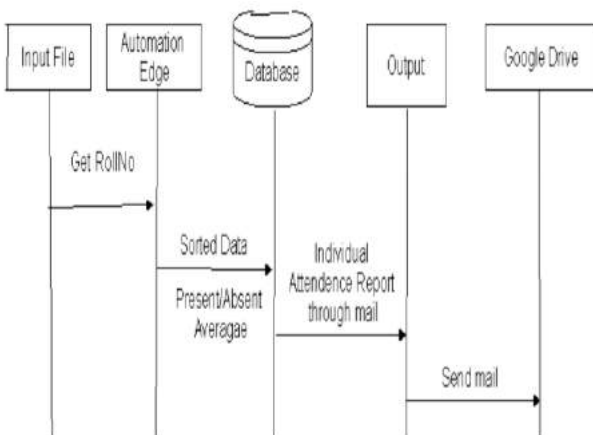


Figure 2: Sequence flow

4. IMPLEMENTATION



Figure 3: Home Page

Admin and staff can start the system by choosing an option respectively.

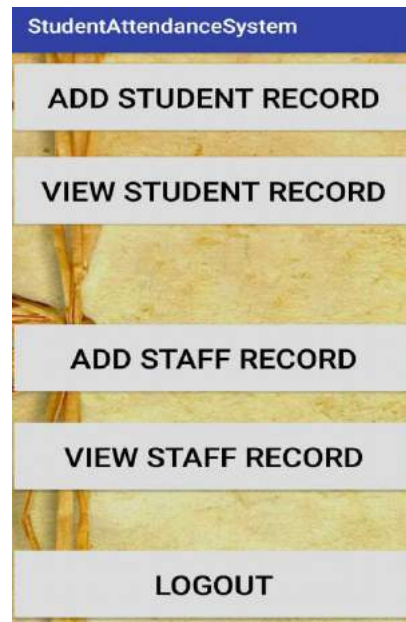


Figure 4 Admin Panel

Admin has the provision to add and view the students as well as faculty records.



Figure 5: Add Student Record

According to number of classes faculty can add a student with respective class.



Figure 6: Workflow mail

Automation Edge process studio will generate the workflow and send the email to the respective faculty.

Faculty can open the excel sheet from their registered mail id for checking and calculating further attendance of their respective class.

5. CONCLUSION

In this system we have implemented an Automated Attendance System by which staff can record student's attendance. It saves time and efforts, especially if it is a lecture with huge number of students. Another importance of this system is, it will automatically generate defaulter list and send mail to staff as well as student.

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