

EMPLOYEE ATTENDANCE, LEAVE TRACKER AND REPORT GENERATION

Akash Sharma*¹, Anurag Kumar*², Aashish Kumar Jha*³, Anjali Parihar*⁴

*^{1,2,3,4}Computer Science And Engineering, Inderprastha Engineering College, Ghaziabad, India.

ABSTRACT

Attendance has been popularly carried out among various Company manually. Manual attendance problem is tackled through digitalisation, now a days we are using Digital attendance management system, which can be implemented on any System. This solution is being developed to make database access to Attendance information as simple as possible. The application makes use of MYSQL as back end and JAVA, HTML, CSS is used as front end. It tracks an employee's attendance from beginning to end. The conventional method of tracking attendance by writing names or signing is inefficient since it takes time and is insecure. Additionally, some of the reasons are not communicated to parents or guardians because telling them is a lengthy process.

I. INTRODUCTION

Employee Attendance, Leave tracker and Report Generation System is software developed for daily attendance of Employees. Previously, the company relied heavily on paper records. This System focuses on protecting information about Employees in an easy way and intelligible manner which reduces time and paper hence beneficial for Environment. The project makes use of database in order to keep a record of attendance and is used while generating a report for individual Employee. The System is fully controlled by admin about the Staff's profile, Employee details about Employee attendance. The administrator can add new Employees, add new staff, view staff and Employee and view the Employee attendance report. Through a secure, online interface embedded in the company website, the Administrators have access to all aspects of the Employee's development. After the shift has been finished, the lecturer can view the Employee's attendance that has been saved in the Admin server. This approach will also assist in determining an employee's attendance eligibility criteria. The goal of this software is to modernise the traditional method of taking attendance. Another function of software is to automatically generate a report at the end of the session. Moreover, graphical user interface is provided in the proposed system, which provides user to deal with system very easily. The scope of this project is the computer on which the software is installed, i.e., the project is a desktop application that will be used by a certain company.

II. LITERATURE SURVEY

[1] "Web Based Employee Information Management", S.R.Bharamagoudar et al., this paper assist in automating the existing manual system. It can be monitored and controlled remotely. This paper provides accurate information always. All years together gathered information can be saved and can be accessed at any time. The purpose is to design a college website which contains upto date information of the college. That should improve efficiency of college record management.

[2] "Attendance Management System G.Gangagowri et al., This method in this system is to send SMS. This app is used to send SMS to their parents quickly and efficiently. This system can store their data about the Employees and those cares absent Employee details. Rather than wasting paper, it is a more efficient technique of storing attendance on the Web site. It also updates the Employee report directly on the server reducing the Admin's time on logging from the computer.

[3] "Online Employee Attendance System", P. N. Garad et al, in this project, we gave access to three user i.e. Admin, Employee, Others. This project is based on client-server. Here, the server is Tomcat and client is JSP. In this project teachers or the admin will be filling attendance and sending message to the Employee who is absent. They will have privilege to fill attendance form, update attendance form, send message to the guardian's account whose child is absent, They also have the ability to send messages to employees whose fees are pending if their attendance is less than 75%.he staff can also view the message whenever they want and also can modify the details of Employees. Parents have access to their children's attendance and instructor messages. Employees have access to their own account, which allows them to examine messages sent by the subject instructor as well as their attendance.

[4] "Web-Based Coaching Institute Management System", Mayuri Kamble et al, "Coaching Institute Management

System” The software built for coaching was created with the goal of maximising efficiency and reducing the amount of time it takes to handle the storing activity. It is intended to replace a manual record system, hence lowering the amount of time required for calculations and data storage. The system is capable of dealing with regressive daily procedures when the database is maintained and cleansed over a set period of time. The organization's system architecture will significantly minimise data entry, time, and give calculated reports.

[5] “Classroom Attendance Application”, Pranjul Khare1 et al, The project's scope is the system on which the software is deployed, i.e., the project is an ANDROID application that will operate for a specific institute. Android is a mobile operating system (OS) developed by Google, based on the Linux kernel and featuring a user interface centred on direct manipulation. In RAD software development, less attention is placed on planning activities and more emphasis is placed on development. It has revealed that an online system for recording and reporting Employees 'attendances is indeed a needed application in order to make the process more efficient and time-saving where more than 70% of the sample group agreed to that matter.

The current system requires manual entry by both the administrator and the employee. Attendance will be taken manually in handwritten registers in this location. Keeping track of the Admin's records is a time-consuming task. The retrieval of information is more difficult than keeping records in registers.

III. PROPOSED METHODOLOGY

To tackle the drawbacks in traditional system, a Web application has developed for daily attendance of Employees. The system consists of two actors one is Admin and another is Employee, Admin is a super user who can create any Admin, Employee, Company details and Broadcast SMS etc. Admin user can able to update an Attendance which has been taken in the XL Sheets. It is simple to obtain information on a specific employee's attendance.. The information regarding the attendance is sent by the Admin to the admin for related class which has been taken using the XL Sheet given to them. This application is useful for determining an employee's attendance eligibility. The goal is to automate the traditional method of taking attendance and generating a report at the conclusion or halfway during the session.

A. Data Flow Diagram

This deals with context diagram, detailed data flow graph, use case diagrams of this system. A. Dataflow Diagram .A DFD is a diagram that depicts the "flow" of the Student Information System. The depiction of Data Processing can also be done with a data flow diagram. The DFD depicts the system's interaction with external entities. This context-level DFD is then "exploded" to reveal more information about the system in use. A data flow diagram (DFD) depicts the flow of data through a system. Data flow diagrams are commonly used for the problem analysis.

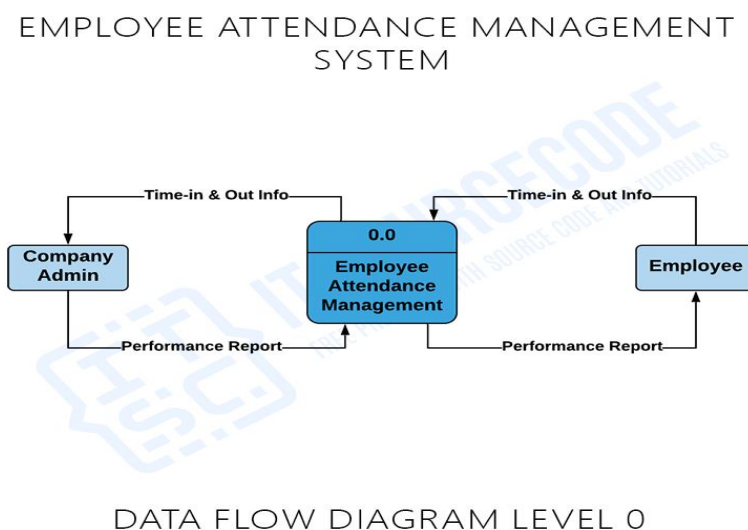


Fig 1: DATA FLOW DIAGRAM

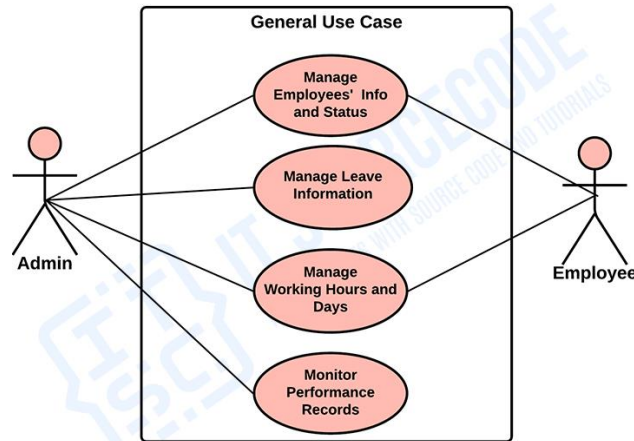
B. Use Case Diagram

ADMINISTRATOR: The admin controls the faulty accounts like entering a new faculty name, assigning the faculty to the subjects, request for report. The faculty's username and password can be modified by the

administrator. In the faculty information system, the admin has the most influence.

STAFF: The Employee's attendance, performance of the Employees and any information regarding the domain can be updated by the staff. They can also view the Employee details for better understanding the Employee performance and improving the efficiency of the Employee. Employees' parents' performance can also be viewed by the staff.

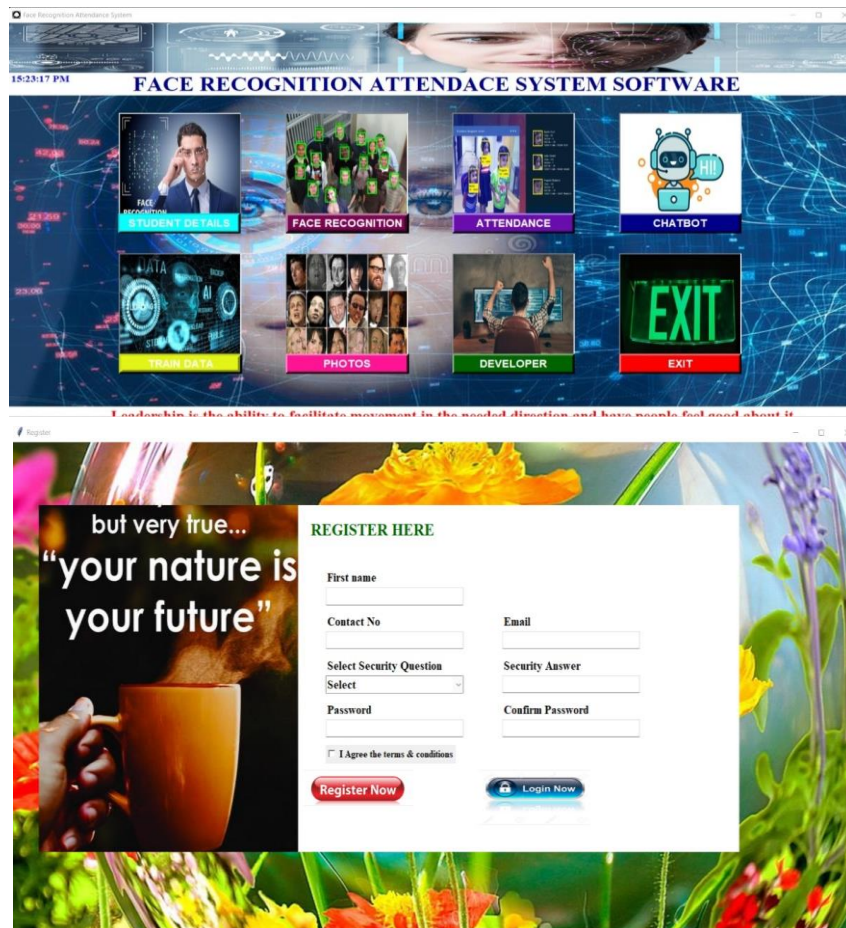
EMPLOYEE ATTENDANCE MANAGEMENT SYSTEM

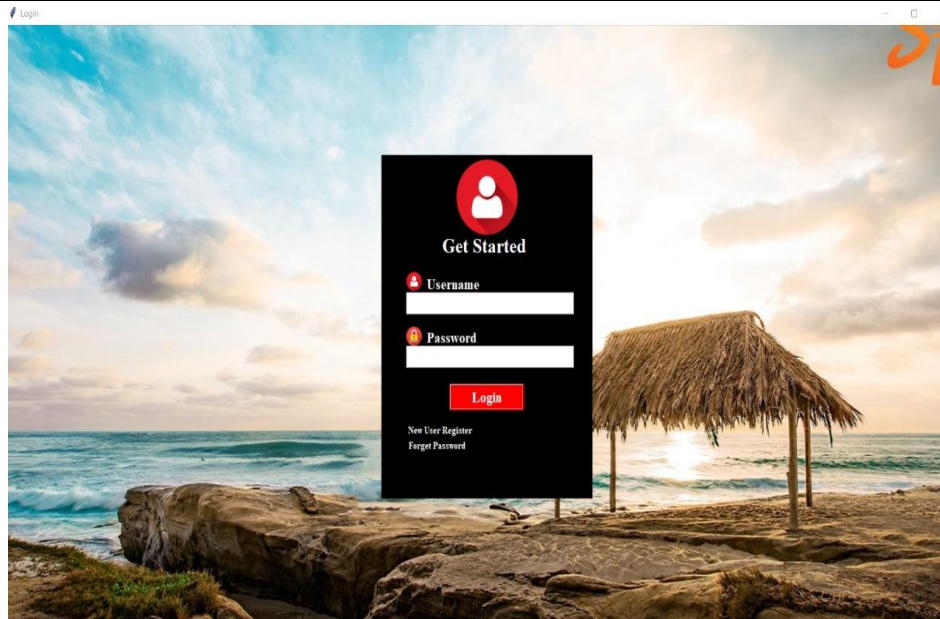


USE CASE DIAGRAM

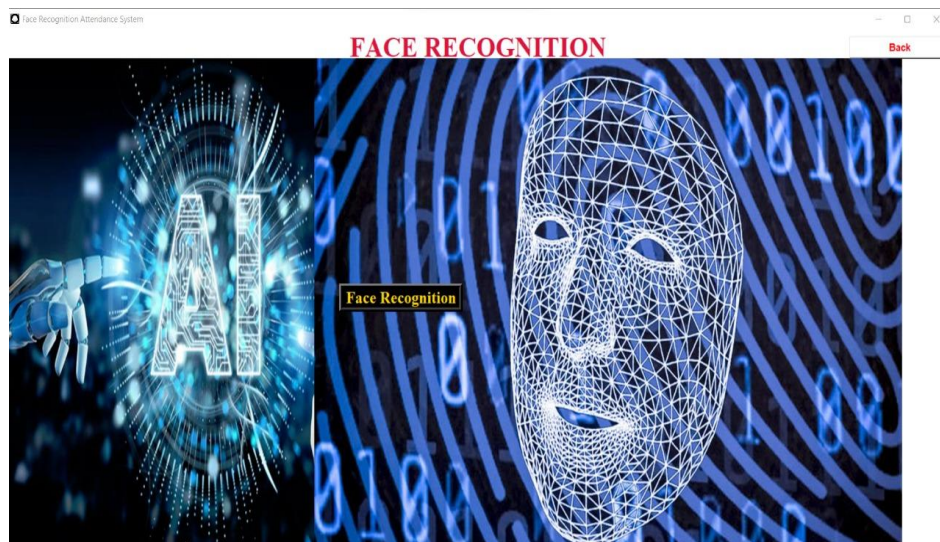
Fig 2: USE CASE DIAGRAM

IV. RESULTS AND DISCUSSION

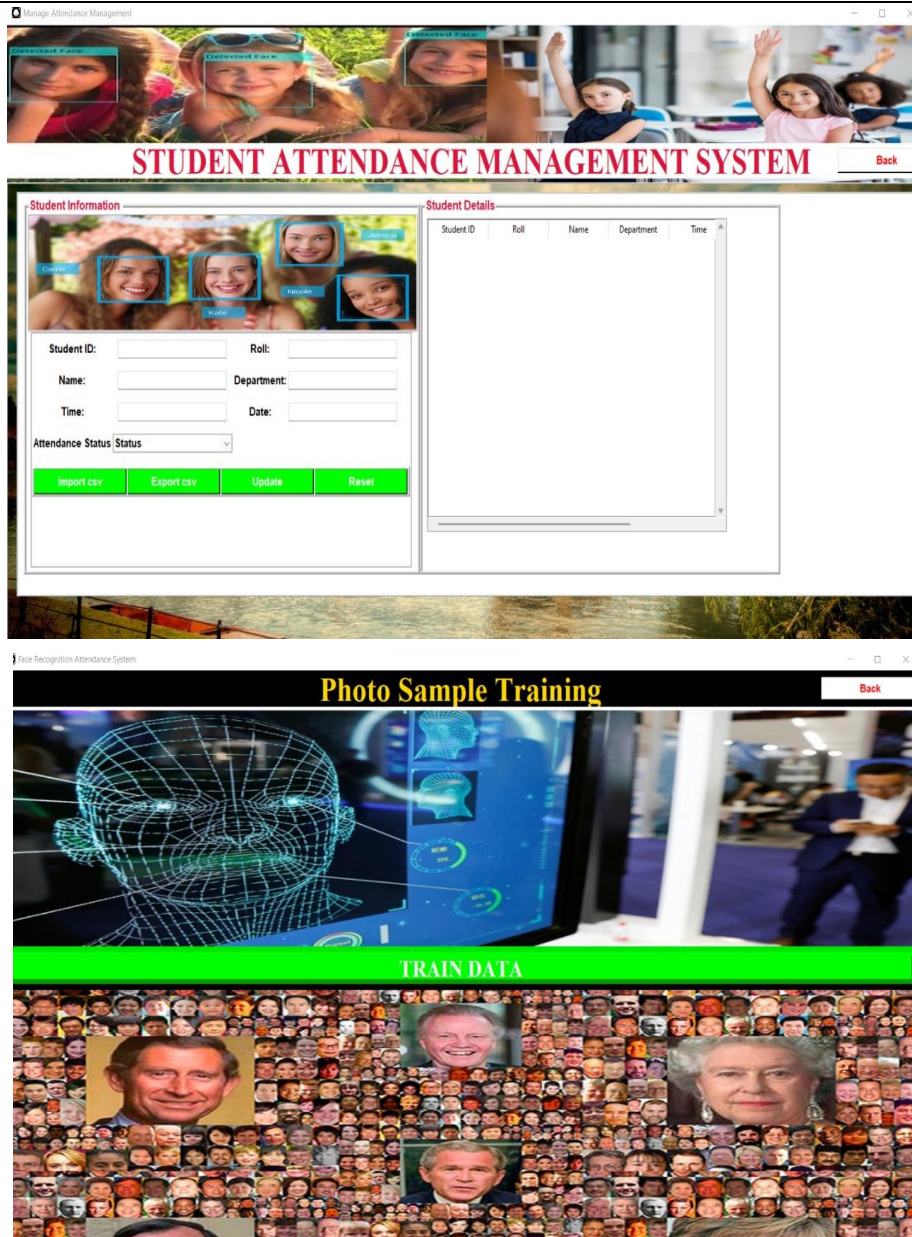




Leadership is the ability to facilitate movement in the needed direction and have people feel good about it



Frontal Face recognition



We can track employee attendance without using traditional methods. The system can recognize and identify the face well with an %, at a face distance 40 cm from the camera with adequate lighting.

V. CONCLUSION

We are introducing an attendance management system in this paper, where attendance is taken digitally. By using the proposed system we are overcoming the problems of the manual entry. Here, We are designing a system where the Attendance is taken and it automatically updates the attendance, employees details. We're also working on a system that will allow us to track attendance and time. We can use RFID technology to implement the system in the future.

VI. REFERENCES

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