

Research Paper on Staff Attendance Portal

Pandurang Pote and Vivek Ashok Maurya

Institute of Distance and Open Learning, Mumbai, Maharashtra, India

Abstract: *For every organization to succeed, including academic institutions, governmental bodies, and businesses, attendance management is essential. In order to improve their efficacy, organizations must monitor their internal staff, including staff. Monitoring staff attendance in the midst of the Covid-19 pandemic has proven to be difficult. Calculating the attendance percentage by hand is quite time-consuming and prone to error, which makes it a major issue. To keep track of staff activities and attendance on a daily basis, an efficient Android application for attendance monitoring has been created. This application stores a photograph, along with the time and location of attendance, in a database*

Keywords: Automated Attendance Location Detection.

I. INTRODUCTION

Software Workers are unable to travel to their places of employment because of the COVID-19 crisis in today's world. This is where the Attendance Portal's assistance to the company and its staff comes in. They can be added by workers to the Attendance Portal.

Attendance on a regular basis benefits the company and the individual.

staff for jobs that don't require work from home and those that do

The system that the software is installed on, i.e., the project is an Android app that will function for a specific institute, is the project's scope. However, an internet connection is necessary for it to function.

Via the Attendance Portal, a task function—namely, adding daily work processes—is also accessible.

Future alterations and updates will include a monthly report on staff.

My goal for this project is to increase staff attendance by the end.

II. AIM AND OBJECTIVES

- Monitoring staffs' daily attendance at work is the primary objective of the Attendance Portal App.
- Every worker will have a unique login that they will use to get into the program.
- You can view a staff's company profile and register their attendance. staff can use the Attendance Portal to enter their daily completed or unfinished work. This enables you to see the job that a specific person was doing at any given moment.
- A particular staff's attendance is being monitored. Cut down on the quantity of manual labor that is done.

III. REQUIREMENT ANALYSIS

"Requirements" describes something that is wanted or necessary. The many parts and software that were employed in the construction of this project meet the requirements of our project.

The project is built with the following elements:

3.1 Android Studio

Based on JetBrains' IntelliJ IDEA software, Android Studio is Google's official integrated development environment, designed specifically for Android programming. With Android Studio, developers can instantly integrate updates by pushing code and making fast changes without needing to restart the application. This allows you a great deal of flexibility in terms of making little changes to your program while it's still running. Android Studio also has emulators, or virtual Android devices, that may be used to test apps simultaneously across many devices on the developer PC.

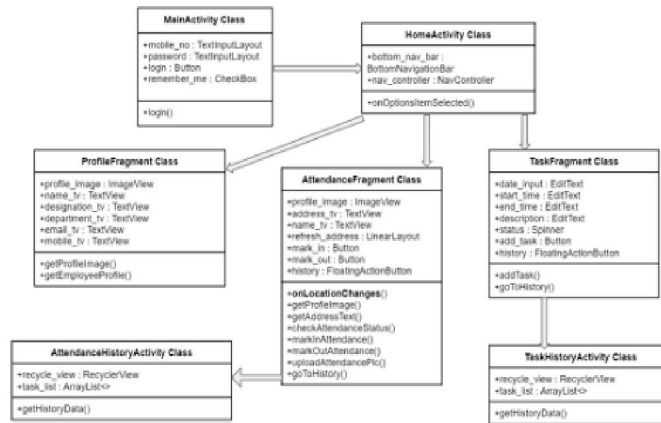
[Scope]

When compared to other biometric solutions, this technology is gradually turning into a universal biometric solution. It allows for a high enrollment and validation rate and is accurate. There are other settings outside schools where this kind of attendance system is used. It is also applicable to a wide range of fields. One can implement a system such as this one to monitor professor absences. The system ought to be accessible to all workers in organizations and businesses.

3.2 Class Diagram

Class diagrams use classes and the relationships between them to represent, in general, the static structure of a system. An association represents a group of links in the same way that a class defines a set of objects; links are association instances, and objects are class instances. It is made up of the following different components:

- Class
- Attribute
- Operation
- Association

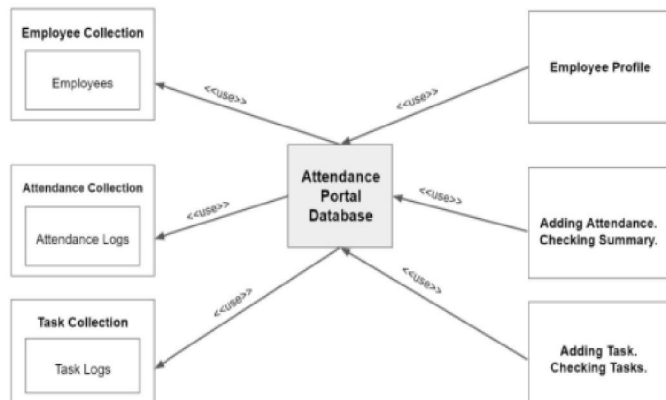


IV. EXISTING SYSTEM

Staff attendance was recorded manually and on paper papers. Apart from wasting time and energy on creating sheets and documentation, there are certain problems with the functionality and consistency of the systems that have been created. Among the systems in use now are:

V. PROPOSED SYSTEM

By staffing an automated approach, we may obtain comprehensive and understandable worker attendance management. Report writing might benefit from this information as well.



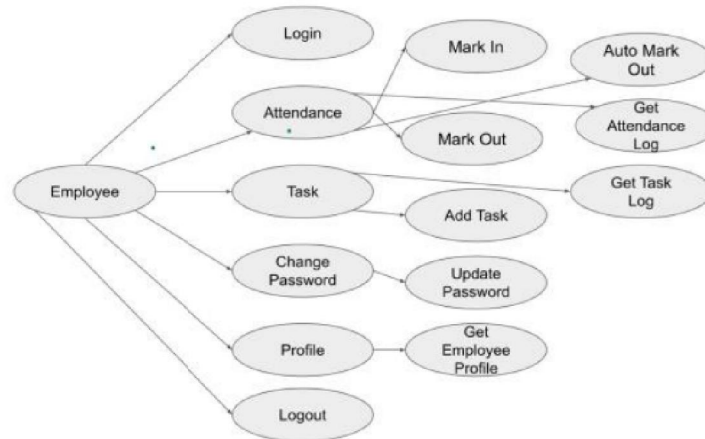


Figure 1: Use Case Diagram

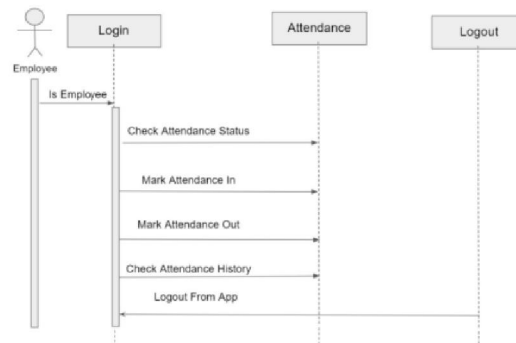


Figure 2: Activity Diagram

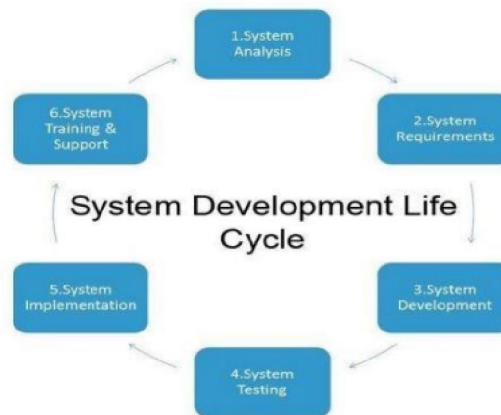


Figure 3: SDLC

VI. CONCLUSION

Time attendance software can be beneficial to an organization by helping businesses anticipate potential problems. By using attendance software, staff may assess their own commitment to the firm as well as learn what is required of them in writing. The attendance systems' cost is recovered. In the long run, businesses save money, time, and effort.