



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

Advisory Functions And Advance Hrms Using More Security

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Abstract

In this paper the goal is to provided the personnel management system, an application-based system, consists of two applications that have been developed. While one program is used by companies to keep track of employee information, the other is used by employees to track their attendance. Information systems[2.] are used by every company, public or commercial, to maintain personnel data. However, it has been shown that many small businesses in India still keep records using paper and pen. Although several high-tech devices can do this function, they are all pricey for reasons related to unpromising sectors. In this essay, we'll talk about how to solve their problems more cheaply. This system will monitor each employee's attendance, and at the end of the month, their wages will be calculated. It determines the regular working hours and overtime for each employee. The employer is allowed unlimited discretion over how to handle each employee's holidays and workweek because every small firm has its own preferred holidays and week off policy.

Keywords: attendance, employee management, payroll, salary calculation.

I. INTRODUCTION

Every company keeps a record of the people who work there. The management of employees requires access to employee records. Any firm needs these records to manage its personnel, determine pay, and evaluate employee performance [1]. The maintenance of all these records by the HR team is a challenging task and a drawn-out process [3], which can be expedited by using the EMS, or employee management system [5]. The success of any organization depends on its people resources, which are an essential element. Organizations invest a lot of money in employee management. Accounting and inventory control is handled by a human resource information system, or HRIS [6]. Owners, HRs, and managers can save time, energy, and money by using the informatics tool known as EMS. Employee management systems are necessary for all firms, whether they are public or private [5]. However, they have been utilizing pen and paper and the outdated, conventional method of record keeping for years. However, the usage of automatic systems[11] that can calculate wages on their own has significantly increased recently. These systems are difficult to employ in many regions since they are expensive and require continual maintenance. I have an EMS that is built on a mobile application to fix this problem. The daily attendance and salary for each employee will be calculated. Smaller businesses can use this technology because it was designed for them. It is less expensive than other systems and aids small-scale industries in managing their workforce. There are numerous problems in small industries as a result of the incorrect computation of pay and overtime, thus this solution strives to handle the issue so that the HR staff may focus on other operations rather than addressing disputes. The record-keeping process can be streamlined for the advantage of the organization. International Journal for Modern Trends in Science and Technology, Abstract 226, 227 This human management strategy must be used by organizations if they want to improve the productivity of their job [4.]. This essay examines the system's creation, problems that were experienced, and the benefits of using it. This solution consists of one mobile app for each employee and the best of two mobile apps for the HR department to manage workers. They can use a QR code to check.

The intention behind the employee management system was to solve the problem that businesses had when figuring out how much to pay each employee. This approach aims to guarantee accurate automatic attendance to prevent attendance fraud. This system makes sure that all calculations required for accurately computing salary are carried out. EMS promotes automated use and ensures that salaries are accurately calculated without any fraud. The right number of holidays, weeks, and vacation days are provided to each employee by their employers. Employees can select their own days off, and at the end of the month, salaries are calculated accordingly. Due to this feature, pay may alter based on the number of days off that employees receive throughout different vacation weeks. Develop a system that can help a business manage its staff. The system should provide the computed salaries, leaves, and working hours of their employees at the end of the month, along with a feature to track attendance. The main purpose of this program is to track daily attendance while also displaying computed income, the number of current leave days taken, and working hours. Employee salaries were regularly not paid on time because the HR team used to spend a lot of time on this work at the end of each month[8]. The relationship between workers and employers was ruined as a result, which hurt the company's expansion. The major challenge for the project will be developing a system to enhance, streamline, and make this process more reliable.

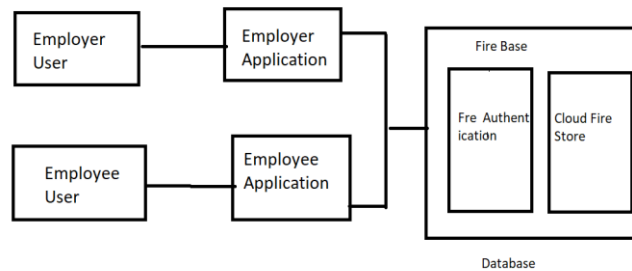


Figure: System Architecture

II. LITERATURE REVIEW

The uses and benefits of this system are covered in various areas of the literature review.

1) Existing System:

The firm still uses pen and paper to record personnel data in its current employee management system, much as it did in the past[1.][2.]. Due to the necessity of maintaining a large number of registers, preparing reports and looking up personnel records take a significant amount of time, and deleting any files results in the loss of data. Additionally, it is a difficult load for businesses because it is an expensive process. The Internet of Things (IoT) and web-based systems are employed, but they are also costly and difficult to deploy in some places. The current alternatives to card punching and facial recognition rely on biometric scanning. The installation of an external device in the workspace is required for each of these, which is a pricey process that necessitates regular maintenance[7]. The idea eliminates all or most of the issues with the current system and stops incorrect data entry. Compared to the current system, it is less expensive, easier to deploy, delivers correct data, needs no maintenance, and saves a lot of time.

2) Proposed System:

The suggested remedy is based on a smartphone application that requires an internet connection to work. The following features are provided by this system:

1. The employer must include the essential staff and information.
2. A company holiday may be announced by the employer one day in advance.
3. A holiday that has already passed cannot be changed by an employer.
4. To receive each employee's pay, the employer must select "Get Salary." He will then see the compensation from the previous month.
5. The employer has the option to amend and delete the employee.
6. The employee must install the app and set it up by the instructions before scanning the QR code for In to gain access to the building. In addition, I have to scan another QR code to exit the premises.
7. The policy is safe and strict, and employees are only allowed to register their attendance once every day.

Owning a Smartphone is the only requirement for using this system, which is not difficult in the current climate. For those without smartphones, it's also important to keep in mind that not all employees are required to have one. Employers can use a feature in the employer app to track employee attendance.

III. DEVELOPMENT METHODOLOGY

This system was developed using the same web-based application development procedure. Because it is difficult to design a full system at once, software must be developed in stages to be reused [15]. Using the incremental development process, a system is created in a series of versions (increments), each of which adds functionality to the one before it.

1) System Analysis:

The development of an attendance-tracking personnel management system for each employee. Data from users must be secure and always available.

For reuse, data must be arranged. To correctly compute employee wages, holidays must be managed. Applications should be able to instantly provide data on pay, total hours worked, overtime, and present days at the end of the month with only a click.

2) Planning:

This stage of growth entails meticulous planning for the actions to be conducted and an appropriate timetable. It is crucial to make sure the development process goes well and is completed on time. It comprises planning the actions required to complete the project, enable it to achieve its objectives, and use them in a way that avoids problems in the future.

3) Design Analysis:

As part of the design analysis process, each screen design is thought out and evaluated to see if it would be able to provide the desired results. This process is repeated as necessary. This is where to begin if a modification or update is required. The most challenging part of this was creating the design in a way that offered a simple user experience. The design is originally constructed in a step-by-step method so that it can integrate all necessary functionalities and then the design can be made attractive.

4) Database Design and its Implementation:

Making databases and classes with the functionality we want to give is part of designing a backend. For databases, I used Cloud Fire-store. I had to keep telling myself that data should be kept such that it can be accessed simply and should not be intermingled, therefore this was the aspect that I found to be the most challenging. Data is used in numerous applications, thus there is a significant chance that it will be stored more than once. Data storage in a way that keeps it separate was another task. Choosing what and where the fields are needed is another option.

IV. RESULT

Following the system's successful development and the successful operation of both applications, the following observations were made: The system functions properly, and an employer can mark an employee's attendance, add new employees to the list, update information about existing employees, and delete employees as needed. Employers are free to mark holidays on any day they choose, but this restriction states that employees can only change holidays for the current day or the days that follow; no one is allowed to change holidays for days that have already passed. Nevertheless, that function is effective. Employers can view a list of current employees with their names highlighted in blue under the option for monthly data. This list also includes the total number of hours worked to date as well as the number of present days for the month. The system is capable of computing salaries at the end of the month; however, employees can only receive their salaries afterward. The employee cannot be paid on the same day if they quit in the middle of their shift. After the month is over, they will get paid. It also functions well that a person can only register their attendance once every day.

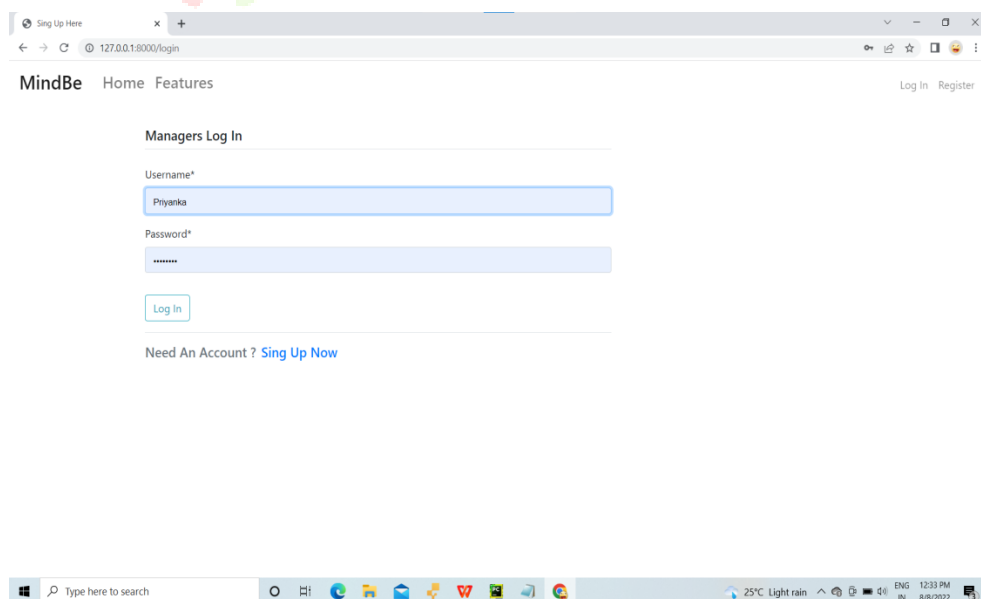


Figure1: User login

Figure 1 shows user login, in this module first of all User means each employee login their account using a security key which will provide to their manager. And if the user doesn't have an account then, first of all, he/she creates an account using sign up now and after then log in their account using the security key.

Employee Id	First Name	Last Name	Email	Address	Mobile No	Actions
3242342	priyanka1gfdgfdg	bondedfgdggds	priyachaudhari1810@gmail.com	bunglow no 3 ,opp dhoot bunglow anandvihar,aurangabadfidsdsgd	8975086764	Edit Delete
12345	priyanka12345	bonde patil	priyachaudhari1810@gmail.com	bunglow no 3 ,opp dhoot bunglow anandvihar,aurangabad	8975086764	Edit Delete



Figure2: Employee List

Figure 2 shows the Employee List, in this module after registration, the employee list will be created. After creating the employee list, the user can delete or edit information with the help of the admin.

V. CONCLUSION AND FUTURE SCOPE

This solution will help businesses with employee management and system development. The purpose of the staff management system is to save time, money, and energy. The process of record management can be greatly streamlined for the benefit of the company. Employees are the backbone of every firm, so keeping them happy is crucial. This proposal will make their wage calculation clear. Additionally, it will make HR jobs simpler so that they can focus on other tasks. This way of managing employees keeps an eye on both an employee's overall performance and all of their many roles within a company.

In the future, the proposed system may intend to extend efforts to an effective employee management system that should include key features, such as time and attendance by way of employee timesheet, absence, and leave management. (e.g., time-off request), an employee database, and an employee self-service portal.

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