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Automated Payroll with Gps Tracking and Image Capture

Shinde Reshma U.
Department of Computer Science and Engineering
NK Orchid college of engineering and Technology
Solapur, Maharashtra, India
Email:- reshmashinde@orchidengg.ac.in.

***Abstract* - This system is a combination of web as well as android application where the user will be using the android application and admin as well as HR will work with web application. This application is meant for field work users. The user will have this application in his android phone, when the user will login to the system his image will be captured and his GPS location will be send to the admin where admin will view image and GPS location in web application. After Login, GPS location of the employee will be tracked automatically by the system and send to the admin after every 30 minutes .When user logout the system again the image will be captured as well as GPS location will be send to the admin. In order to keep track of the attendance as well as payroll of the field work people, this system plays a major role.**

***Keywords*- GPS, Automatic Tracking, Android application, Image capturing.**

I. INTRODUCTION

Android Smartphone mobile application is platform, we are implementing a new generation Automated payroll system with GPS tracking and image capturing system. For Easy to implement and add no. of functions, ability to manage many employee efficiently, tracking of employee easily for checking either who is present approved area or unapproved area. Very secured and Low cost also.To satisfy the above all requirements, the proposed employee monitoring system adopts 3G communication network function between Android mobile terminals, and collects users information using Global positioning system (GPS). In additional we are use one new module such as know the employees image capturing for storing and retrieving related employee details such as Login, Logout, and Location.

Main aim of developing Employee Payroll Management is to provide an easy way not only to automate all functionalities involved managing leaves and Payroll for the employees of Company, but also to provide full functional reports to management of Company with the details about working hours of the EMP and Salaries to be paid to the employees.

This Application works in Multiple PC's installed on multiple Computers by sharing same database by which admin and HR of different department can use it sitting at different locations simultaneously. We have made an Android Application where the user will be using the android application. This System helps the admin to keep track of the employees who go for field work. Since GPS location of the employee is tracked, so employee will not attempt to add proxy attendance.

II. RELATED WORK

In the employee monitoring system before the implementation of proposed system another system is their existence called existing system. In that system the tracking of the employee is done by fixing tags in different location for identifying the actual position of an employee. Also the android smart phone is connected to Bluetooth and wireless LAN. So the tracking of employee done to very shorter distance by using Bluetooth.

In existing payroll system of PAU all the calculations are done by clipper based system, it is not a fully computer based system. The main disadvantage of this system is that majority of work is done by hand. The whole procedure involving delivery of an employees pay is very tedious, time consuming and frequent verification is required so as to avoid the risk of human error.

In the existing system the Managers cannot get the Employee's activity information in the mobile through text, like SMS and Calls. The Managers doesn't know the Employee's current location. There is a possibility of data loss during the message transfer from one mobile terminal to another mobile terminal. And also in existing system the employee behavior is not calculated so that organizational Paper.

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III. PROBLEM STATEMENT AND PROPOSED SYSTEM

The Rapid growth of android applications is creating a great impact on our lives. The aim of this research Employee monitoring system using android mobile is, to automate the employee monitoring process in company by their Employee's office cell phone and also improve the organizational growth of the company.

1. This System helps the admin to keep track of the employee's who go for field work.
2. Since GPS location of the employee is tracked, so employee will not attempt to add proxy attendance.

The problem which is occurred in the existing that are overcome in proposed system. Automated time and attendance monitoring system provides many benefits to organizations. This reduces the need of pen and paper based manual attendance tracking system. Following this thought, we have proposed a smart location based time and attendance tracking system which is implemented on android mobile application on Smartphone reducing the need of additional biometric scanner device. The location of an organization has a specific location, which can be determine by the GPS. Each employee's location can be determined by the GPS using Smartphone.

We have proposed a location based smart time and attendance tracking system based on the concept of web services which is implemented as an Android mobile application that communicates with the remote server in which the database is located. Internet connectivity (Wi-Fi/3G) is needed for connecting to database residing in the remote server.

Our proposed smart system does not require any kind of peripheral device other than Smartphone which will reduce computational time and cost of placing an extra device. The proposed system provides a solution to manual attendance taking problem. This system is a location based smart time and attendance tracking system based on the concept of web services which is implemented as an android mobile application. The employee has to install the respective APK files developed for them on their android devices. At first it is important to save the office coordinates by entering the latitude, longitude and radius of area. To run the whole system accurately it is important that both the employee device and office server is in the internet connection (Wi-Fi/3G).

The system flow diagram is a visual representation of all processed in sequential order. The System flow chart diagram is a graphical representation of the relation between all the major parts or step of the system. Flow chart diagram can not include minor parts of the system. The user will have application in his android phone, when the user will login to the system his image will be captured and his GPS location will be send to the admin where admin will view image and GPS location in web application. After Login, GPS location of the employee will be tracked automatically by the system and send to the admin.

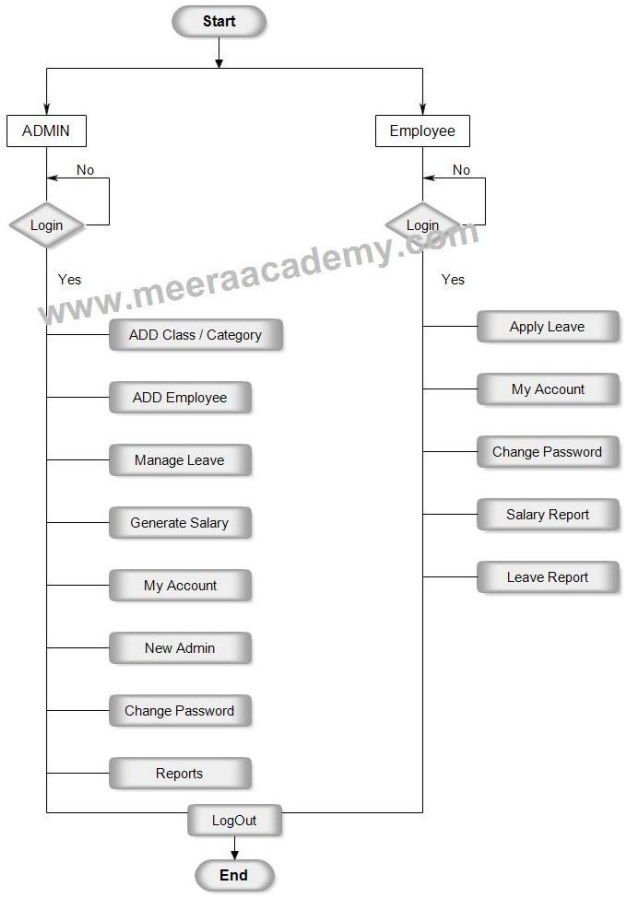

Fig.1 The System flow chart diagram is a graphical representation of the relation between all the major parts or step of the system.

In order to keep track of the attendance as well as payroll of the field work people, this system plays a major role. The role of the admin is to add new employee by entering his personal details. HR can check salary of the particular employee by entering employee identity number and date. This application helps admin and HR to easily check the salary of the employee.

IV. IMPLEMENTATION AND CODING

1. Implementation- The system can be implemented by using system server, database server and simple the android mobile to access GUI. The system can be implemented by any android mobile device with the 3G facility and GPS.

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2.Interface: The user interface is friendly which is easy to use and simple. The interface on the mobile has attractive frame structure.

3.Packaging: Both the system server and database server are integrated together. The user wants to login need to have android mobile and access with GPS and 4G service. The check-in/check-out and image should be valid.

4.Technology Endorsed

4.1 Android- Android is an open source and Linux-based Operating System for mobile devices such as smart phones and tablet computers. Android was developed by the Open Handset Alliance, led by Google, and other companies.Android offers a unified approach to application development for mobile devices which means developers need only develop for Android, and their applications should be able to run on different Devices powered by Android.

V. CONCLUSION

The goal of this project is to develop web based payroll system. This computer based Payroll system is accessible on the internet and calculates, maintains and records the payroll information of employees. This application helps the admin, Hr. and management of the organization to easily check the salary of the employee according to their working hours ,since GPS location of the employees are tracked continuously resulting in no attempts for any proxy attendance and faulty working hours. The proposed can get detailed information about mobility of employee by adjusting network.

This Application will help to automate payroll system of an organization. Multiple authorized users will be able to login and logout from a web browser. Login checks (username, password) are controlled by administrator. Administrator will have total web based control to completely customize the payroll system. Head of the department will be able to authenticate new employees, update existing employees pay, view reports while the operator may calculate pay and can only view reports. The system is user friendly. Whenever there is an error in entering data, it immediately shows an error.

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