Android Application For Employee Monitoring and Tracking System.

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Abstract – *In today's world of Smartphone is increasing day by day and is very effective and powerful tools for increasing computational power and security along with search and rescue. The aim of this system is to monitor the employee activity in company by their office cell phone and improve the growth of the company. This System is an android application which is capable of managing employee from remote location. This system creates the process much easier and computerized. By this system the manager or top level users employee can fix the organize of any employee working under him by assigning task online, Thus the top level management can easily fix the process of organizing, and even can change the appointment of employee which is return immediately to the related employee ,top level management avoid direct contact of the employee resulting in saving lot of time and work overhead. The system even has the option for only viewing the employee's activities. This system has many functionality which provide employer ease of handling employee. This system contains functions like Task assignment and task follow-up, Meetings, Employee Tracker, Internal Planner, Message / Broadcast.*

*Keywords***: Mobile Application, Android, tracking, Monitoring, GPS, Broadcast.**

1.INTRODUCTION

Now a days use of Smartphone is increasing daily and is very effective tools for increasing computational power and security along with search and rescue. The aim of this system is to monitor the employee activity in company by their office cell phone and improve the growth of the company. This System is an android application which is capable of monitoring and managing employee from remote location. This system creates the process of scheduling much easier and computerized. By this system the manager or top level designated or top level user employee can fix the schedule of any employee working under him by assigning task online, Thus the top level management can easily fix the process of scheduling, and even can change the appointment which is rejected immediately to the related employee avoid direct contact of the employee resulting in saving lot of time and work overhead. The system even has the option for only viewing the employee's activities. This system has many functionality which provide employer ease of handling employee. This system contains functions like Task assignment and task follow-up, Meetings, Employee Tracker, Internal Planner, Message / Broadcast. The system is intranet based system so employee can also participate in this system and track their status. In that provides domain login as per organization requirement so no need to remember user id or password. The system also provides

detail general information about the employee along with Educational, Certification, Skill and Project details. It enhances the Management in adding employee, viewing employment status and updating employees details and generates various reports regarding employees skill and experience.

The proposed system contains multiple objectives like:

Task Assignment and Follow Up
Task Management
Meeting Invitation
Employee Tracking
Internal Planner

1.1 Project Idea

We proposed a system in which we can create an android application which is capable of managing employee from remote location.This system managing the process of scheduling much easier and computerized.

1.2 Problem Statement

The Administration falls short of controlling the employee's activities in analyzing his/her strengths and weakness. The decision for assessment of assigning next task to the employee or to train him/her to improve the skills – where be placed with proper projection. He is not provided with the detailed task information done or to be assigned based on Application / Verticals, So Existing System is not much user-friendly.

1.3 Purpose and scope

The proposed system is intranet based system so employee can also participate in this system and track their status.System provides domain login as per organization requirement so no need to remember user id or password. The proposed system provides detail general information about the employee along with Educational, Certification, Skill and Project details. It enhances the Management in adding employee, viewing employment status and updating employees details and generates various reports regarding employees skill and experience.

1.4 Relevant Mathematics Associated with the project:

Input: Task assignment, Follow Up, Image Capture, Meeting details, Internal Plan, Message, Location.

Output: Assign task, Update follow-up, uploaded Image, Meeting Notification, Message Notification.

Functions: Task management, Image Upload, Meeting management, Employee tracking, daily internal plan, Message service.

Success condition: Project Working Efficiently.

Failure condition: No internet connection.

Mathematical Formulation:

1. Lets F are the Functions.

F={...............................}

F is Divided into 5 Modules.

F={F1,F2,F3,F4,F5}

F1:Task Assignment & Follow Up.

F2: Task Management.

F3: Meeting.

F4: Employee Tracking.

F5: Internal Planning.

2. R is the Identify Inputs.

R= {R1,R2,R3,R4,R5,R6}

R1:Administrator Assign Task.

R2:Task assign to Employee.

R3:Planning over here from Employee.

R4:Employees do the task, send the Image capture of updating Task.

R5:Task is successfully complete .

R6:Interface like Chatting for a particular Task, Image, PDF and Follow Up.

3.O is Identify Output.

O= {O1, O2, O3, O4, O5, O6}

O1: Task assign to Employee.

O2: Hold Meeting Records, Inform About Meeting.

O3: Employee Tracking Records of Source & Destination address of every visit.

O4: Inform About Meeting to Employee.

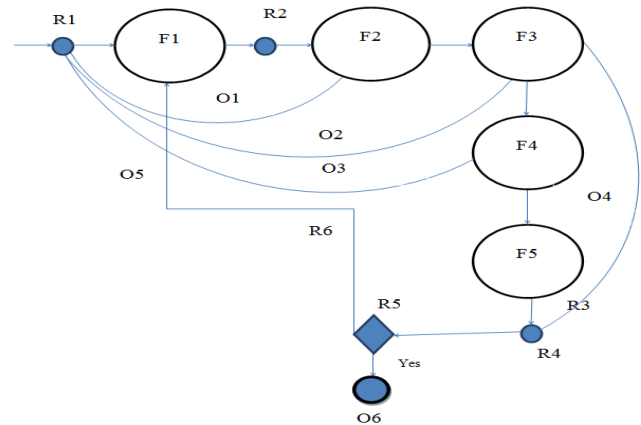O5: Get Image that captured by employee.

O6: Task Completed.

Fig:State Diagram

2. LITERATURE SURVEY

Employee monitoring system uses cell phone, important, software that allows Managers to monitor Employee's status by their office cell phone. All incoming and outgoing calls, texts and multimedia messages can be monitored and interrupted by the Managers, who can also checks tracks of employee where their Employee are (through GPS), access traveling related all logs of employee where they have been and set up alerts if their Employee are going outside of accepted geographical zones, are receiving texts from unaccepted numbers or calls from prohibit persons. Using this system, we can avoid the problems which are face by Employee those who are having mobile phones by checking their mobile phone usage and also by tracking their exact location through the GPS.[1]

Idea of the project is to develop a software application which can manage file sharing in a organization for providing excellent service for users and completing work in minimum time. The project basically will have three parts. First part is associated with data storing and retrieved from the server using a predefined path or format. Second part is about secured client-server communication. Third part is about front end/GUI in client-server system. This application is implemented in four modules: Admin module, Department module, Client module and Report module.[2]

The proposed system includes a child part and two receiver part for getting the data about the missed child on periodical basis. The child part consist ARM7 microcontroller (lpc 2378), Global positioning system (GPS), Global system for mobile communication (GSM), Voice playback circuit and the receiver part consist Android mobile device in parent's hand and the other as monitoring database in control room of the school.[3]

3. SYSTEM ARCHITECTURE

The system is intranet based system so employee can also participate in this system and track their status. The system provides domain 10 login as per organization requirement so no need to remember user id or password. In this system

provides detail general information related to the employee along with Educational, Certification, Skill and Project details. It enhances the Management in adding, viewing and updating employees details and generates various reports regarding employees skill and experience.
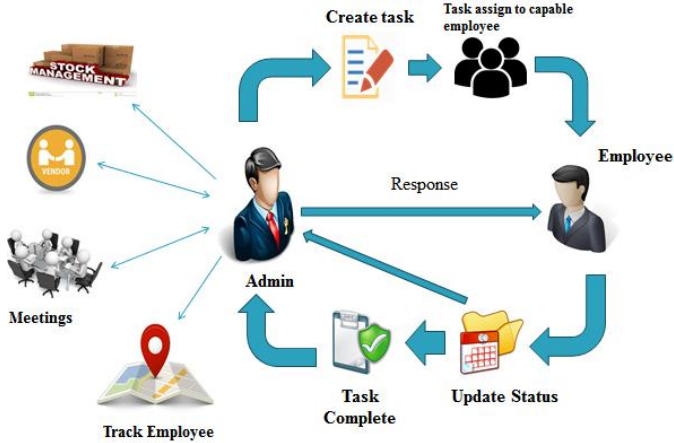

Fig -1: Employee Monitoring Tracking System

As shown in Figure 1 Firstly admin create a task for assign that task to the employee check that who is the capable employee for doing that task and finally it is assign to the employee .then employee perform that task and update the task status and completing task send to the admin if some changes occur in a task then admin gives response to the employee again employee perform the task and update the status of the task the task is completed and send it to the admin again admin gives response to the employee that task is done accurately also admin able to track the location of the employee to check whether the employee visiting that particular construction site or not. Then also admin gives meeting invitation to the employee along with date time and day of the meeting .if employee tells to the admin that some Resources are unavailable then admin contacts to the vendors then purchases the stock and it is allotted to the particular site work.

4. SCREENSHORT

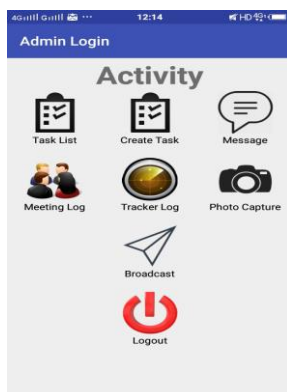### 4.1 Admin side

Fig:Admin login

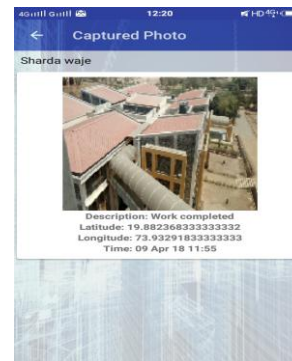

Fig: task assignment

Fig: image logs

Fig:Meeting log
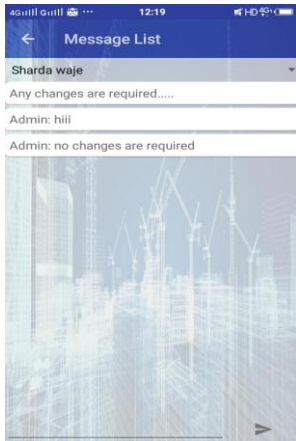

Fig: tracking logs

Fig: Message list

Fig: Broadcast list
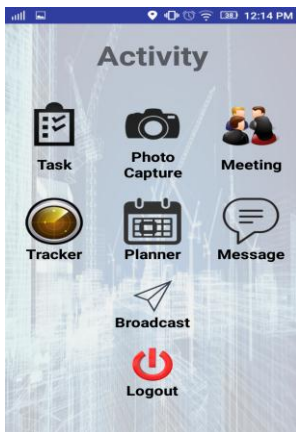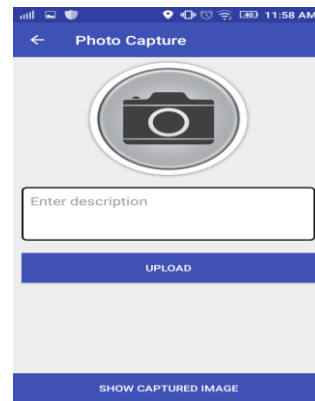
4.2 Employee side

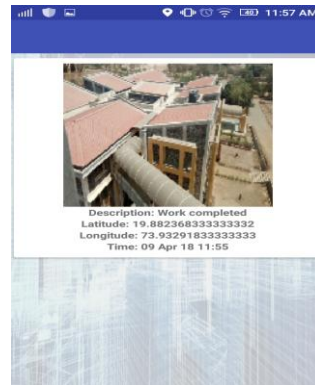
Fig: employee login

Fig: task list

Fig: image capture

Fig: image capture log
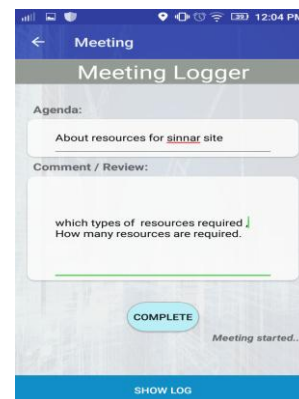
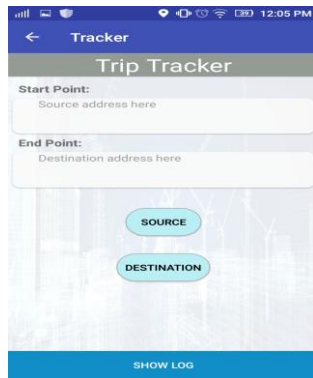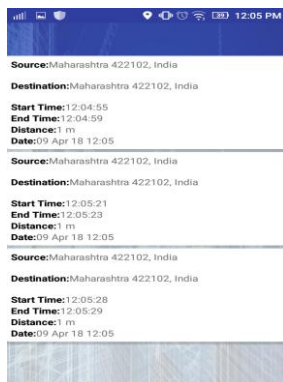Fig: Meeting logs

Fig: location tracker

Fig: tracking log

Fig: message list

5. FUTURE WORK

In future, we are assign one task to two or more employee and also add new features that voice calling and video calling.

6. CONCLUSION

This project provides overall solution for employer to manage its employee and task assignment for each employee. This helps in proper reimbursement for travel allowances. Provides ease of sending message as well as broadcast message for emergency announcements .

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