Android Application for Employee Monitoring and Tracking System

Prajkta Khatale[1],Sharda Waje[2],Riya Pathan[3],Gaurav Bhangale[4],Prof. P.S.Tambe[5]
[1,2,3,4]*Student of Computer Department,*
[5]*Assistant Prof. of Computer Engineering,*
SVIT Chincholi,Nashik.
Email ID:
[1] *prajukhatale@gmail.com,*
[2]*waje.sharda06@gmail.com,*
[3]*riyapathan279@gmail.com,*
[4]*gv.bhangale@gmail.com,*
[5]*prachi.gaikwad28@radiffmail.com*

Abstract— Use of Smartphone is increasing day by day 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 managing employee from remote location. This system makes the process of scheduling much easier and computerized. By this system the manager or top level designated 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 reflected immediately to the related employee avoiding 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:-Cloud environment, Security, Privacy, Authentication, Anonymity, Key Generation Center, Attribute Based Encryption and Access Control.

I. INTRODUCTION

Existing System is based on Standalone system. The Administration falls short of controlling the employee's activities in analysing his/her strengths and weakness. The decision for appraisal of assigning next project to the employee or to train him/her to enhance the skills where lies with proper projection. He is not provided with the detailed project information done or to be assigned based on Application / Verticals Existing System is not much user-friendly. Some drawbacks of existing system is:

1. Need of extra manual effort.
2. As current system is standalone normal employees cannot track their employment status.
3. It used to take much time to find any employee.
4. not very much accurate.
5. Danger of losing the files in some cases. Certain required report is not available

It is much complex to interact with existing system.

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

II. LITERATURE SURVEY:

In web-browser/web server method of creating new documents and signing existing documents, in particular faxes and email attachments, useful for ecommerce and other applications. Documents or document components are sent to the web server [1]. Also have records management system and method that permits paper records to be tagged, stored and retrieved according to user criteria [2].

Digital signatures are the building blocks of modern communication to prevent masquerading by any party other than recipients, repudiation by signatory and forgery by any individual recipient [3].

For the traditional surveillance system with the weakness of over-reliance on monitor environment, poor mobility and so on, this paper proposed a

monitoring scheme based on android smart phone terminal. By collecting and processing data at server, sending data to smart phone terminal via socket, it reaches the purpose of monitoring the target site anywhere and anytime under the coverage of wireless network and enhances the flexibility of surveillance system greatly[4].

III.PROPOSED SYSTEM:

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, viewing and updating employees' details and generates various reports regarding employee's skill and experience.

IV.SYSTEM ARCHITECTURE:

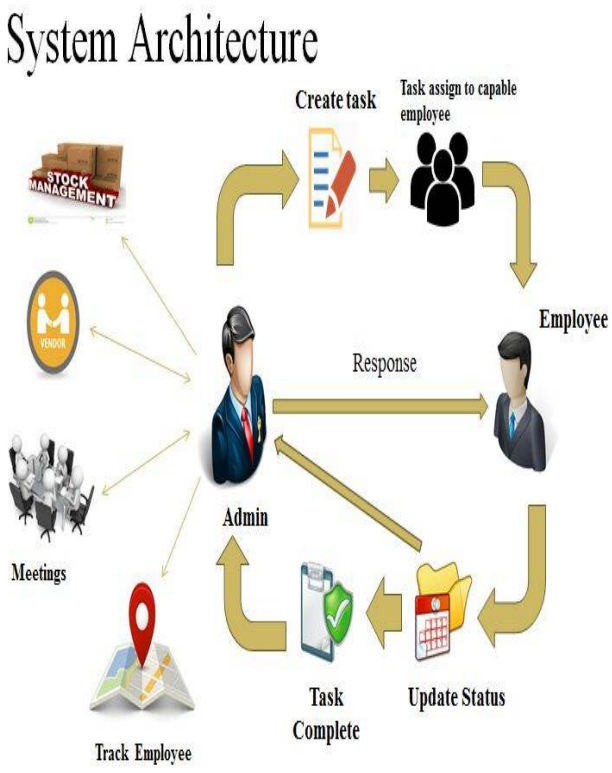

Fig 1: Architecture diagram

As shown in Fig 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 purchase the stock and it is allotted to the particular site work.

V. ALGORITHM AND MATHEMATICAL MODULE:

Algorithm:

1) Start
2) Login to application
3) Admin create a new task.
4) Assign that task to particular employee.
5) Employee perform a task.
5) Employee update the task status.
6) Admin check the task updates, if any changes occurred then admin give the response to employee then go to step 5.
7) If task is completed then one task successfully completed.
8)End

Mathematical Module:

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 be 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.

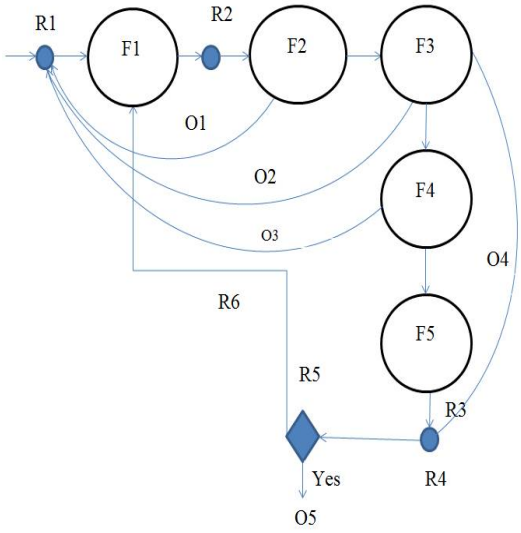

Fig 3.State Diagram

VI. EXPECTED RESULT

The expected result is that the System Provides overall solution for employer to manage its employee and task assignment for each employee. This helps in proper reimbursement for travel allowances. Provides is of sending message as well as broadcast message for emergency announcements.

VII. FUTURE WORK:

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

REFERENCES:

[1] Cloud and HTML based document management and creation system. (2015). [Online] Available: http://www.google.com/patents/US8958109.
[2] Records management system (2015). [Online] Available: https://www.google.com/patents/US20150310007
[3] Quantum digital signature scheme (2015). [Online] Available: http://arxiv.org/abs/1507.03581.
[4] Heming Pang, Linying Jiang, Liu Yang, Kun Yue, "Research of android smart phone surveillance system"Computer Design and Applications (ICCDA),2010 International Conference on" 25-27 June 2010V2-373 - V2-376
[5] N. Y., H. K. Document conversion system including data monitoring means that adds tag information to hyperlink information and translates a document when such tag information is included in a document retrieval request.US 6073143 A. Sanyo Electric Co., Ltd.
[6] O. E. Oyinloye, A. I. Fasiku, B. K. Alese PhD. and A. Folake.Development of enhanced token using picture password and public key infrastructure mechanism for digital signature. International Journal of Computer Science and Information Security 9(7), pp. 164170. 2011.
[7] Atsushi Ito, Yoshiaki Kakuda, TomoyukiOhta and Shinji Inoue, "New safety support system for children on school routes using mobile ad hoc networks," IEICE Transactions on Communications, vol.E94-B, no.1, 2011, to appear.
[8] Kuntze, Rieke, Diederich, Sethmann, Sohr, Mustafa, Detken "Secure Mobile Business Information Processing "2010 IEEE/IFIP 8th International Conference on, 11-13 Dec. 2010 672 - 678
[9] Melkonyan, Yalamanchili, Akopian, Chen, "Integrity monitoring and thresholding-based WLAN indoor positioning algorithm for mobile devices" System of Systems Engineering (SoSE), 2011 6th International Conference on 27-30 June 2011 191 – 196
[10] Hyun Jung La; Soo Dong Kim"A service-based approach to developing Android Mobile Internet Device (MID) applications" Service-Oriented Computing and Applications (SOCA), 2009 IEEE International Conference February 2010
[11] yagi, Vivek; Pandya, A.S.; Agarwal, Ankur; Alhalabi, Bassem "Validation of Object Recognition Framework on Android Mobile Platform" High-Assurance Systems Engineering (HASE), 2011 IEEE 13th International Symposium pages: 313 – 316, Nov. 2011
[12] Mori, Y.; Kojima, H.; Kohno, E.; Inoue, S.; Ohta, T.; Kakuda, Y.; Ito "A Self-Configurable New Generation Children Tracking System Based on Mobile Ad Hoc Networks Consisting of Android Mobile Terminals" Autonomous Decentralized Systems (ISADS), 2011 10th International Symposium Pages: 339 - 342 , March 2011.