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The Mobile Application to Track a Remote Employee

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Abstract: ***Mobile Application to track a Remote Employee is a system which is used to provide complete information about employee tracking system. This system will help Manager to manage tasks assigned to employee and time spent on each task. The features of Mobile Application to Track a Remote Employee, so as to serve as a guide to the developers on one hand and a validation document for the prospective client on the other. This system will allow Manager to define- Projects, Task Categories, Tasks, Task Schedules, Confirmation of completion of Tasks.***

Keywords: API, Tracking

I. INTRODUCTION

The Employee Tracking System and Business Process Management will help Manager to manage tasks assigned to employee and time spent on each task. Manager views key performance parameters on Portal Dashboard: Real-Time Accurate Location, Distance Travelled, Tasks Completed. This software will allow Manager to define- Projects, Task Categories, Tasks, Task Schedules, and Confirmation of completion of Tasks.

The project has users like Administrator, Manager, Retailer and Employee. For Retailer and Employee mobile application is built and for Administrator and Manager software is built through which they will manage the Retailer and Employee. The Manager will assign the task to Employee, for confirmation of completion of task of an Employee, the Retailer will send an OTP and also provide a feedback of an Employee through its mobile application to Manager. After completion of task, a report will be generated of an Employee.

II. EXISTING SYSTEM

In existing system, the manager cannot trace out the Employee's activities such as Employee's behavior, alert message on his/her mobile phone. As it's a manual process, needs for extra manual effort, employee cannot track their employee status, Less Accuracy Danger of losing some files.

The problem definition for designing the system is to maintain data of employee, to make easy controlling employees, to divide jobs and access control of employees, to use technology for accurate and timely processing by fully privacy and full authority access. The objective of the project is to set up employee information system about status of employee. Manager views key performance parameters on Portal Dashboard: Real-Time Accurate Location, Distance Travelled, Tasks Completed. This software will allow Manager to define- Projects, Task Categories, Tasks, Task Schedules, Confirmation of completion of Tasks and Employee Performance Report.

III. PROBLEM STATEMENT

Manual handling of employee information poses a number of challenges. A number of current systems lack employee self-service meaning employees are not able to access and manage their personal information directly without having to go through their HR departments or their managers.

Another challenge is that multi-national companies will have all the employee information stored at the headquarters of the company making it difficult to access the employee information from remote places when needed at short notice. This system will maintain employee information in a database by fully privacy and authority access. The program should perform the basic operations upon the database as retrieving, inserting, updating and deleting data. The Interface of the program should be user-friendly, and the program should be as easy for use as it is possible.

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IV. TECHNOLOGY STACK

A. ReactJS

A React application is made of multiple components, each responsible for rendering a small, reusable piece of HTML. Components can be nested within other components to allow complex applications to be built out of simple building blocks. A component may also maintain internal state – for example, a Tab List component may store a variable corresponding to the currently open tab.

B. NodeJS

Node.JS is an open-source, cross-platform, JavaScript run-time environment that executes JavaScript code outside of a browser. Node.JS lets developers use JavaScript to write commands line tools and for server-side scripting-running scripts server-side to produce dynamic web page content before the page is sent to the user's web browser.

C. MongoDB

MongoDB is a cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with schema. MongoDB is developed by MongoDB Inc. and licensed under the Server-Side Public License (SSPL).

D. Firebase

The Firebase Realtime Database is a cloud-hosted database. Data is stored as JSON and synchronized in real time to every connected client. When you build cross-platform app with our iOS, Android, and JavaScript SDKs, all of your clients share one Database.

E. Android

Android is an open source and Linux-based Operating System for mobile devices such as smartphones and tablet computers. Android was developed by the Open Handset Alliance, led by Google, and other companies Android applications are usually developed in the Java language using the Android Software Development Kit. Once developed, Android applications can be packaged easily and sold out either through a store such as Google Play, SlideME, Opera Mobile Store, Mobango, F-droid and the Amazon Appstore.

F. MapBox

Mapbox is a developer platform used across industries to create custom applications that solve problems with maps, data, and spatial analysis. Mapbox's tools are building blocks that support every part of the web and mobile map- making process.

G. Twillio

Twilio is a developer platform for communications. Software teams use Twilio APIs to add capabilities like voice, video, and messaging to their applications. This enables businesses to provide the right communication experience for their customers.

V. HIGHLIGHTS OF THE SYSTEM

Fig.1Web Application Home Page

Fig.2 Mobile Application Home Page

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A. Module 1: Login Page

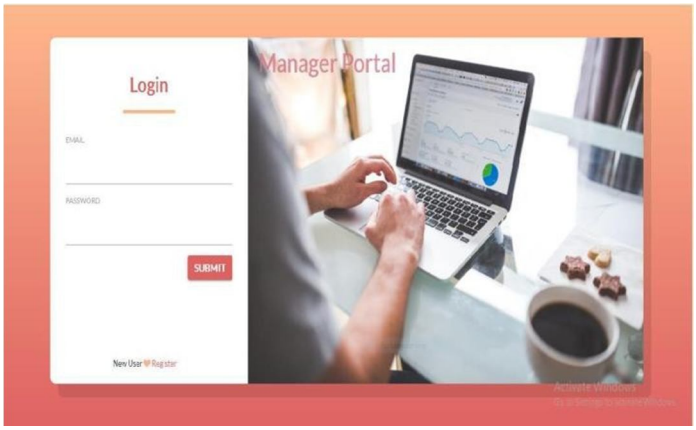

Fig.3 Web Application Login Page

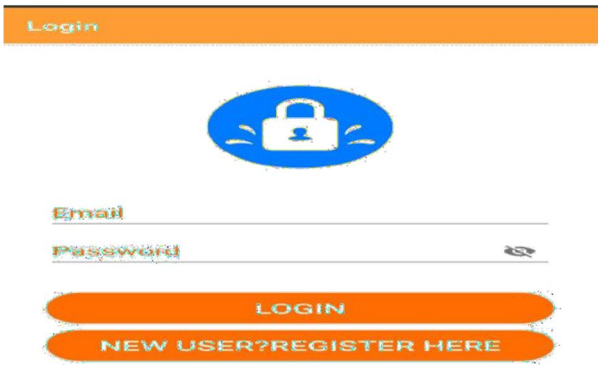

Fig.4 Mobile Application Login Page

This is a login page where a manager could login so as to see details of employees as well as retailer details and a new person could also register himself/herself. A particular manager could see specific details regarding to his/her requirement.

B. Module 2: Add Employee and Retailer Page

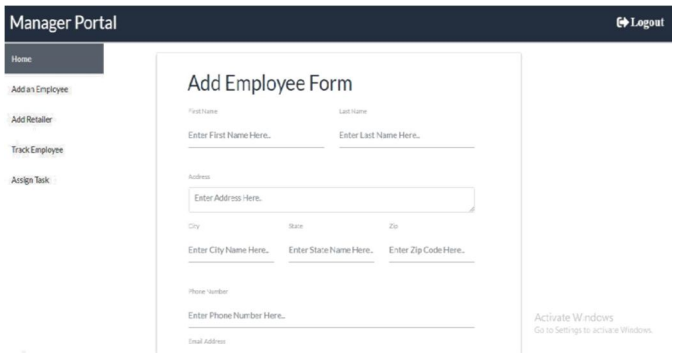

Fig.5 Web Application Add Employee Page

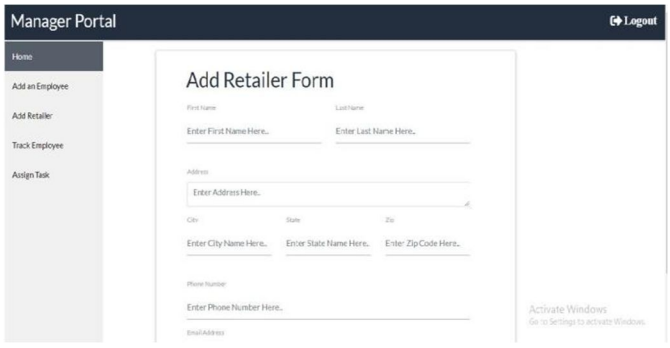

Fig.6 Web Application Add Retailer Page

This is an add employee and retailer page where manager will add, create, update and delete the details of employees as well as retailer.

C. Module 3: Assign Task Page

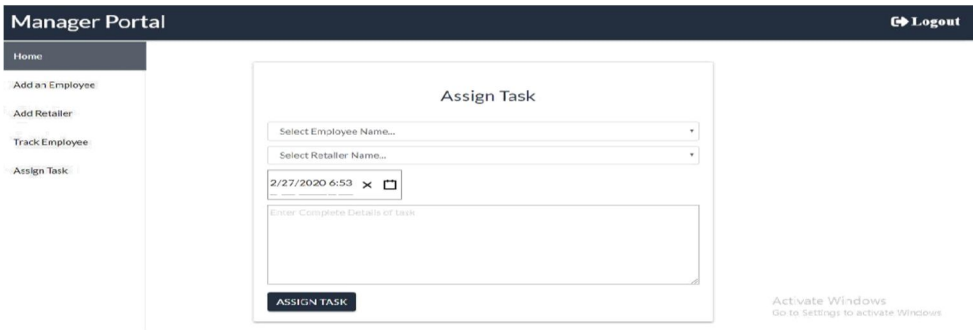

Fig.7 Web Application Task Assign Page

Assign Task page contains the details where manager will assign specific task to employee and at that instant employee will notified with a message and retailer will get a message OTP.

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D. Module 4: Location Track Page

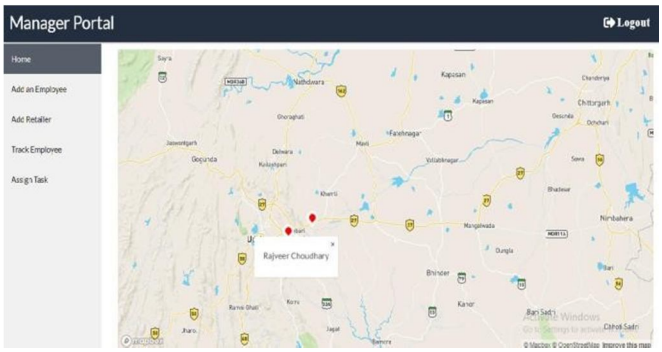

Fig.8 Web Application Track Employee Page

Fig.9 Mobile Application Location Track Page

In web application, the location track page is used by manager to track the live location and activities of employee and in mobile application, the location track page is used by employee to trace the location of self.

E. Module 5: Meeting Verification Page

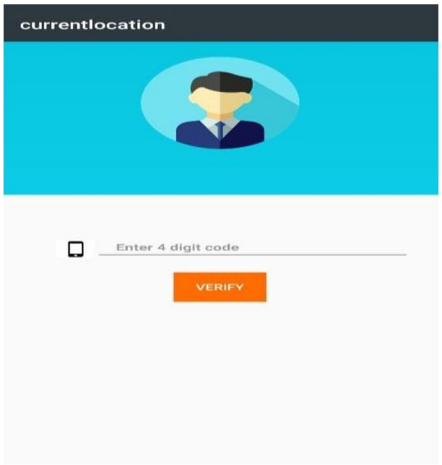

Fig.10 Mobile Application Meeting Verification Page

This module is used when retailer will get an OTP, this 4-digit OTP will feed into meeting verification page by the retailer and get verified by him. At that instant, employee and manager both will get a notification that meeting is verified by the retailer.

F. Module 6: Employee Profile Page

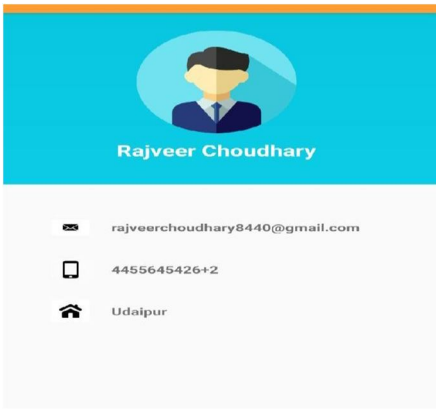

Fig.11 Mobile Application Employee Profile Page This module is used by the employee to visit his/her own profile and can fetch details.

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VI. FUTURE SCOPE

In our project now we are implementing track of Business Management in which we will intended to provide complete information about revenue based on expenses, Employee performance report, Report generation, visualize employee data as well as business data in a graph or scatter representation.

VII. ACKNOWLEDGMENT

This project demanded a huge amount of research work and dedication which would not have been possible without the support of many individuals and organization. Therefore, we would like to extend our sincere gratitude to all of them. We are also grateful to Prof. (Dr. Vikas Mishra), Director, GITS for supporting and motivating us to do a quality work. Finally we are thankful to Dr Mayank Patel (HOD CSE) for helping us in implementing the project.

REFERENCES

[1] Employee Monitoring. Retrieved November 22, 2015, from http://www.scu.edu/ethics/publications/iie/v9n2/brother.html Richmond, R. (2012, May 31).
[2] Tips for Legally and Ethically Monitoring Employees Online. Retrieved November 22, 2015, from http://www.entrepreneur.com/article/223686 Yerby, J. (2013).
[3] Legal and ethical issues of employee monitoring. Retrieved November 22, 2015, from http://www.iiakm.org/ojakm/articles/2013/volume1_2/OJAKM_Volume1_2pp44-55.pdf
[4] Benefits of Using Employee Monitoring Software. (2012, February 6). Retrieved November 22, 2015, from http://www.geekbusiness.com/2012/11/benefits-of-using-employee-monitoring-software/ Alaniz, R. (2008, July 1).
[5] The Advantages and Pitfalls of Employee Monitoring. Retrieved November 22, 2015, from http://www.fleetfinancials.com/article/story/2008/07/the-advantages-and-pitfalls-of-employee- monitoring.aspx White, F. (2015, November 8).
[6] Employee Monitoring - Keylogger | Mobile Phone Spy. Retrieved November 22, 2015, from http://keyloggers.mobi/employee-monitoring/ Employee Monitoring: Are You Crossing The Line? (2014, January 14).

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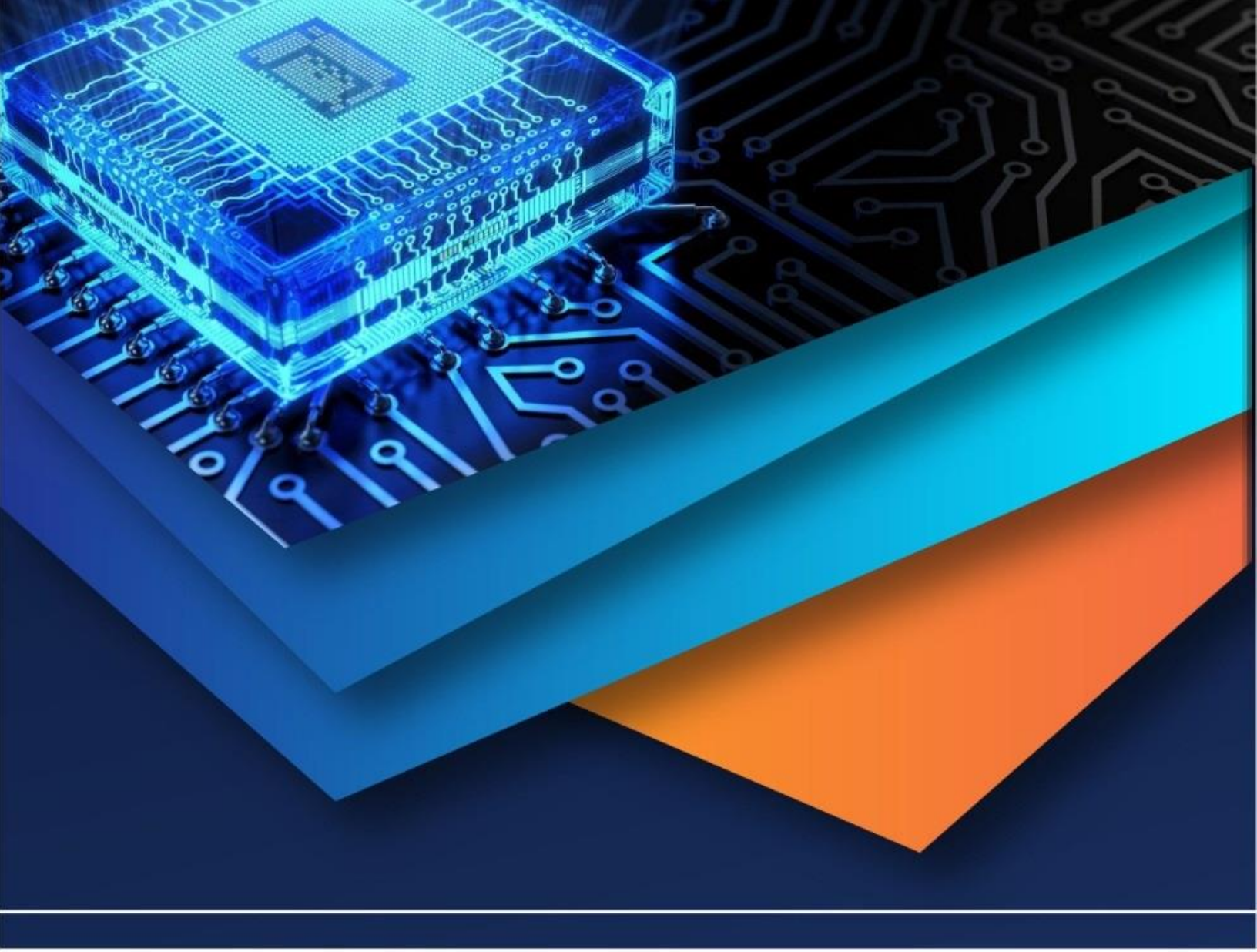

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