

# Build ERP system using android application with advance GPS technology.

<sup>1</sup>Kharmale Akshay, <sup>2</sup>Dumbre Swapnil, <sup>3</sup>Said Shubhangi

<sup>1</sup>Student, <sup>2</sup> Student, <sup>3</sup>Assistant Professor

<sup>1</sup>Computer Department,

<sup>1</sup>Jaihind College of Engineering, Pune, India

**Abstract:** Enterprise Resource Planning is a framework utilized for dealing with the majority of the assets possessed by the organization, business exercises, and data used to make a decent business process. One of the modules in the ERP is deals and dissemination. Deals and dissemination is a module that handles the deal and conveyance products to clients to accomplish their business objective. And GPS Proposed application, the area of the client is followed utilizing Global Positioning System (GPS). The primary usefulness of this innovation is to give area data using a portable application we are broadcasting the client's areas to favored contacts chosen by the client, at normal time interims by this process we can guarantee that the client is going on track in his movement.

**IndexTerms-** Enterprise Resource Planning (ERP), Selling of Products, Customers, Small and Medium Enterprise, Salesperson, tracking, localization, smart phones, Android, coordinates, latitude, longitude, Geocoding, Reverse-Geocoding

## I. INTRODUCTION

Enterprise resource planning (ERP) is most popular resource planning module for businesses now a days and also ERP is a system used for managing all of the resources owned by the company and business activities, and information used to make a good business process. One of the modules in the Enterprise resource planning (ERP) is sales and distribution. A Sales and distribution is a module that handles the sale and delivery goods to customers to achieve their business objective. Sales & marketing is heart of any organization that is involved in business of selling. Sales department focuses on selling of various products where as marketing department.

The use of sales and distribution module is the process of selling to customers for goods and services, makes it easy to check the sale of goods and delivery of product, and facilitate the collection of customers who make a purchase of goods or services provided by the company, determines the appropriate services to customers, and forecast the amount of requirements for goods desired by the customer. Sales forecasting is calculating the expected sales of a specific product and predicting future sales of the product.

Mobile ERP system we proposed Smart phone (Android) System for Admin are can be Continuously Track the employee Using to the GPS tracing system or Google map. And salespersons car can accept the customer requirement android application through the current location of customers. And Admin are can Suggest shortage path for salesperson current location to next locations.

The purpose of the system are can be reduces the manual presses And reduces the longest tangling distance of salesperson between the current location to the next location of customer. To save the time between travelling distance of salesperson.

## PROBLEM STATEMENT:

Enterprise Resource Planning (ERP) is able to include all of the functionality of company, ERP is also able to record all business transactions in the enterprise, monitor the performance of the company, but the results of the reports that are generated are not effective up to mark. So we design a system that automates ERP system.

## GOAL AND OBJECTIVE:

1. ERP system can generating automatic record of salesperson.
2. This system can be Reduce or eliminate manual processes.
3. Sales and distribution is a module that handles the sale and delivery goods to customers.
4. ERP and android application are use for security.

## II. EXISTING SYSTEM:

Enterprise Resource Planning is a system are supported only the desktop base for managing all of the resources owned by the company, business activities, and information used to make a good business process. One of the modules in the ERP is sales and distribution system and this system are not monitoring the salesperson information like a current location, travelling distance between the current locations to next location. To overcome the problem this problem is mobile ERP system we proposed Smart phone (Android) System Using to tracing the salesperson are current location. and Admin are can be Continuously Track the employee or sale person using GPS and Google map. Suggest shortage path for salesperson current location to next locations.

**III. LITERATURE SURVAY:**

1) Sasiporn Tasnawijitwong, Taweesak Samanchuen

**Year:** 2018

**Publication:** 2018 5th International Conference on Business and Industrial Research (ICBIR), Bangkok, Thailand.

-This paper presents Open source ERP was a necessary system for small and medium enterprises. The suitable open source ERP selection is a major problem that SME’s faces when they want to implement ERP. This research defines major criteria for open source ERP selection in SME’s and suggested alternatives which are famous and have different advantage and disadvantage.

2) Vicky Chrystian Sugiarto, Riyanarto Sarno, Dwi Sunaryono

**Year:** 2016

**Publication:** 2016 International Conference on Information, Communication Technology and System (ICTS).

-This paper describes a complete methodology use of sales forecasting at an ERP to forecast customer demand is very effective. With the sales forecasting on an ERP, production of goods can be set according to customer requirements as well as the capability of a warehouse to store goods, so it does not overstock or under stock, and could act as forward planning for the purchase of raw goods, budgeting, and the number of employees needed for production.

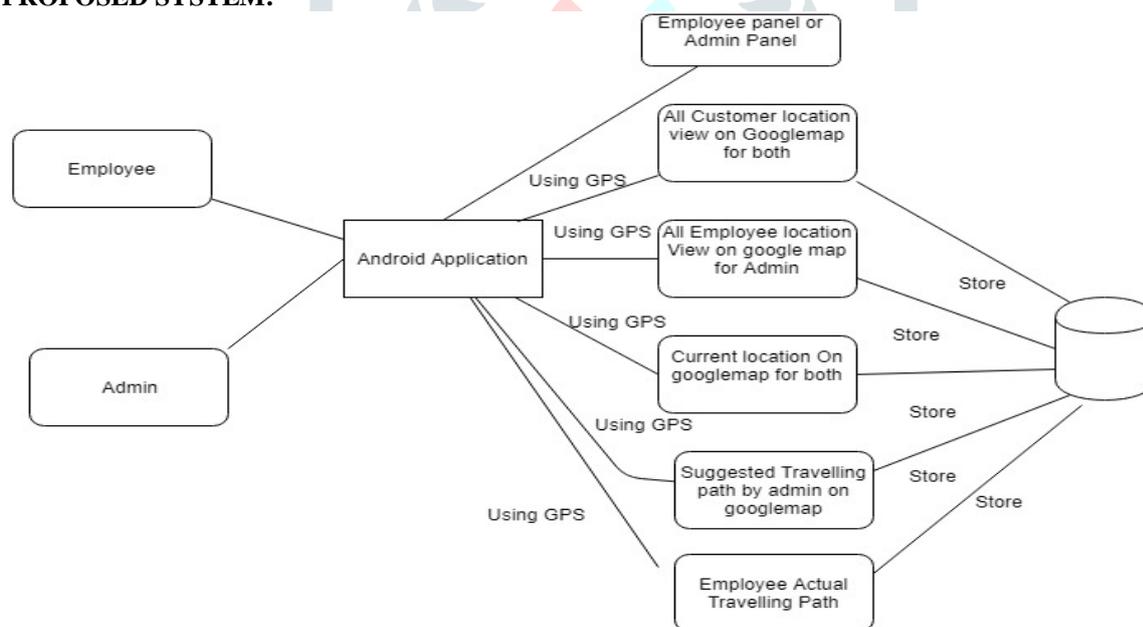
3) DHINAKARAN K, SRINATH S

**Year:** 2017

**Publication:** Springer 2017Third International Conference on Science Technology Engineering & Management (ICONSTEM)

-This paper proposes a system that focuses on place characterization rather than bare latitude and longitude values, based on the data recorded continuously by smart phone. This data is collected using GPS and annotated by the user before being recorded. This recorded data is used for automated place labelling without using geographical information. The feedback system involved in this model is cumbersome and results in analysis of meticulously collected data. The proposed system involves many logistical difficulties that makes the implementation tedious.

**IV. PROPOSED SYSTEM:**



**Erp System For Market Selseperson**

Fig. ERP system for salesperson Architecture

**V. REQUIREMENTS SOFTWARE AND HARDWARE:**

Hardware Requirements Specification:

There should be required devices to interact with software.

- System : Intel I3 Processor.
- Hard Disk : 40 GB.
- Ram : 2GB.

## Software Requirements Specification:

- Operating system : Windows Xp/7/8/10
- Coding Language : java/php
- Database : Mysql.
- Tool Kit : JDK 1.8 And Android 2.3 above
- IDE : Android Studio & Eclipse
- Device : Android mobile With API level 20 to 27

**VI. APPLICATION:**

- ERP System for market salesperson.
- Get accurate employee detail.
- Produces the employee salary slip.

**VII. CONCLUSION AND FUTURE WORK**

The purpose of the system are can be reduces the manual presses and reduces the longest tangling distance of salesperson between the current location to the next location of customer. To save the time between traveling distance of salesperson.

The objective of this study is finding out way of analyzing and mining bulk of customer orders data in a way that customers purchase interest can be identified. The algorithm implemented here targets on generating result that contains active customers set, customers most interest product set and percentage rate of their interest. The scope of algorithm is all enterprise business models that adopt ERP system.

**VIII. ACKNOWLEDGMENT**

Android application are use for salesperson login and logout, accept the customer requirement to application through and generating the automated report to the customer like current location of salesperson or customer and admin are can suggest the shortest path between to the current location to the next location to salesperson and admin are Continuously Track the employee or sale person Admin using GPS and Google map.

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**Kharmale Akshay Kisan**  
**Student at Jaihind College of Engineering, Pune.**  
**he has knowledge about Web Technology and android development.**  
**Interested in Learning New technologies.**



**Dumbre Swapnil Ulhas**  
Student at Jaihind College of Engineering, Pune.  
he has knowledge about PHP, java and android development.  
Interested in Learning New technologies.



**Prof. Said Shubhangi K.**  
Assistant Professor at Jaihind College of Engineering, Pune.

