Company ERP System

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Abstract: *"Company ERP System" is designed to make the existing manual system automatic with the help of computerized equipment and full-edged computer software, fulfilling their requirements, so that their valuable data and information can be stored for a longer period with easy access and manipulation of the same. The required system is easily available and easy to work with. This web application can maintain the employee attendance, details and view computerized records without getting redundant entries. The project describes how to manage employee's data for good performance. Enterprise Resource Planning (ERP) system consists of different sets of software that are used to integrate the business functions in a company or organization. Given that these solutions provide an integrated solution to the needs of an organization, these systems are in high demand by all organizations. The full potential of these systems can only be realized only if they are successfully implemented. However, the implementation process is costly and time consuming, and thus requires careful planning and organization. If successfully implemented, ERP systems provide many benefits to those organizations that adopt them. On the other hand, if the implementation process is not successful, the venture can prove costly. By examining the existing literature on this topic, this paper focuses on how ERP systems can be successfully implemented in organization and the critical success factors. The information provided in this paper may be used to guide organizations in the implementation of ERP System.*

Keywords: Employee Management, Attendance Management, workflow, Department Management, System User Management, Admin login.

I. INTRODUCTION

One of the company's strategies to improve its competitiveness is by utilizing information technology as the main tools to support its growth and business processes. One of the most used application in IT company in ERP system. ERP systems were designed to facilitate the management of all resources in an organization: Finance management, inventory management, people management, planning management etc. This means the ERP systems would include Human Resource Database. The use of enterprise resource planning (ERP) software has become increasingly more common in a lot of today's businesses. It is adopted in many firms in attempts of improving business performance. The concept of business performance can be operationalized as financial gains by the organization, operational improvements for the organization or intangible gains for the organization. The focus of this paper will be on the operational and intangible gains resulting from ERP implementation. Integrated applications are able to meet the needs of users in terms of flexibility, orientation on business processes, usability, personalization, maintenance and optimization of managing the costs of IS (Information System). Increasingly, at water parks, there are new needs for integration with the use of online solutions, with mobile tools and the availability of BI (Business Intelligence) solutions in the fully IIS (Integrated Information System). The latest generation of ERP systems offer a combination of all these functionalities, while remaining flexible solutions, easy to use and which require less capital investment compared with older systems. In short, the main task of an ERP system is a fast, direct access of each employee to the necessary information, which improves the quality of decisions made at each point of using the IIS. In addition, the ERP solution must be flexible enough to allow adaptation to constant changes in the business environment without incurring large financial outlays. In the traditional system, an attendance register is maintained at the front-office and employees

enter they're in and out times. The HR department does the attendance and leave calculation physically every month. This increases the paper work and makes the record maintenance tedious. The purpose of this system is to describe the functionality and specifications of the design of a web application for Managing Employee attendance, details, products. The system includes tracking employee histories, abilities, performance, skills and salaries. Replacing certain processes with various levels of HRMS systems can diffuse information management responsibilities so that the bulk of information gathering is not delegated strictly to HR. By authorizing employees to change own information and perform other tasks, information is kept more accurate and HR professionals are not trap down.

II. LITERATURE SURVEY

According to our survey, staff record plays an important role in the management of company. Earlier staff management was done manual and no automation was done. ERP developed in earlier phase were for HR department and required training. ERP developed by us contain interface for both HR department and for employees with data base for all modules and easy user interface. Staff records play a significant role in an organization as it provides information needed to manage their employees' performance. Many organizations particularly the government agencies are still using the conventional methods which are merely paper- based to record the data of their employees, this often result in downright waste of time in generating reports or searching for employees' records and loss or damage of files. These inadequacies in the conventional method are characteristically alluded for the justification in developing a computer-based staff management system; as it creates and maintains a database of staff records. This paper discusses the development of a computer-based system using C# while the database was designed using MySQL. With this new system in place; it will provide a dependable report of staff profile in support of management planning and decision- making. It will also accelerate the most time consuming aspects of the organization which is processing and maintaining accurate staff information, secures and provide ways to access to employees' records.

III. PROPOSED SYSTEM

The proposed system is based on a web application and requires internet connectivity. The proposed system is a web-based application having two apps for two types of user a) admin b) Employee. The data of a system is stored on MySQL database. Data of users should be secured and must be accessed easily whenever required. Data to be structured such that it can be reused. Proper concern management of holidays to be done, which is an important in calculating salary of employees. Applications should be capable of giving salary, total working hours, overtime, present days at the end of month in just a click.

3.1 Area
In this project, we used data Mining as an area of implementation for company ERP management system.

3.2 Web Application
A mobile application, most commonly referred to as an app, is a type of application software designed to run on a mobile device, such as a smartphone or tablet computer. Mobile applications frequently serve to provide users with similar services to those accessed on PCs. Apps are generally small, individual software units with limited function. This use of app software was originally popularized by Apple Inc. and its App Store, which offers thousands of applications for the iPhone, iPad and iPod Touch. A mobile application also may be known as an app, web app, online app, iPhone app or smartphone app.

3.3 Design Concept
The manufacturing process is made up of a sequence of production activities in the production network following a pre-defined technological sequence. On their route through the production system, the items, raw material, semi-manufactured products and finished products wait in queues for release conditions and are subjected to fabrication or assembly operations until they reach the last production stage. represents the sequence of production activities for

one product in three periods of time. Decisions to be taken, before each production resource, are quantity of raw material, demand to be supplied and production level for each group of machinery in each period of time. Cost and capacity are associated with each production stage (processing, transportation, assembling and storage activities). Costs and capacities can be different for each time period.
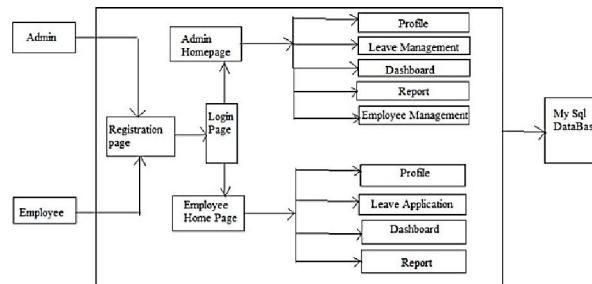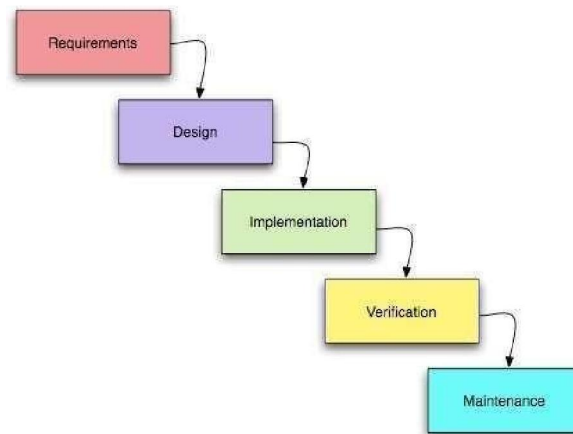

Figure 1.1: Block diagram of ERP

Figure 1.2: Flow of Proposed System
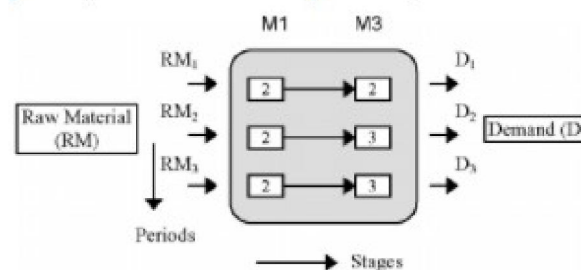
3.4 Mathematical Model

Figure 1.3: Mathematical Model of Proposed System

3.5 Implementation

This project is based on the database, web based techniques. To keep the records in the database it uses MySQL software which is one of the best and the easiest databases to keep information. This project uses Bootstrap, html, CSS as the front-end web based application which is a PHP based Programming and has connectivity with MySQL. This system is developed using PHP and MYSQL. This is the web application .In this system Admin gets logged in by valid

username and password. Admin can add new Employees, add new Department, add new Pay Grade for the employees, also add stock of the company Admin can set the 'from' and 'to' date worked by an employee in a department with specific pay grade. The Admin can generate an automated monthly salary of an employee. The admin can view all the past records of any recorded employee.

3.6 Algorithm

It is one of the simplest and effective processes to turn a vision for a business need into software solutions. Agile is a term used to describe software development approaches that employ continual planning, learning, improvement, team collaboration, evolutionary development, and early delivery. It encourages flexible responses to change.

The agile algorithm emphasizes four core values.

1. Individual and team interactions over processes and tools
2. Working software over comprehensive documentation
3. Customer collaboration over contract negotiation
4. Responding to change over following a plan

IV. APPLICATIONS

[1]. Small Scale Industry
[2]. School/Collage
[3]. Large Scale Industry
[4]. Co-operate company
[5]. Educational Institute
[6]. Planning & Scheduling
[7]. Materials/Inventory Management
[8]. Project Management
[9]. Sales Management
[10]. Financial
[11]. Shop Management

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V. CONCLUSION

This system will help the organizations to develop their system and will help in managing employees. The Company ERP system is designed to save money, time and power. This system is very helpful in an organization to simplify the process of record maintenance. As employees are the backbone of any organization, it is necessary to keep them happy. This concept will bring transparency in their wage's calculation. It will also make the HR work easy so that they can focus on some other work. This Company ERP system manages the overall performance and different aspects of an employee in an organization.

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