RESEARCH ARTICLE   OPEN ACCESS

IT INFRASTRUCTURE & PROCESS CONTROL SYSTEM

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Abstract:

The main objective of IT Infrastructure is to computerize all the activities carried out in a software development firm. This system mainly concentrates on the Front office, Human resource department and Project management department in the organization. The project is divided into four major modules which include Admin, Front Office Management, Human Resource Management, Work Process Management and Scheduling. Each of these modules comprises of several child modules, which denotes the activities that are to be performed. The complete functions of the front office is automated by this software by using the various options like maintaining call details, managing the facilities like meeting rooms, training rooms etc., and monitoring the employees login/logout details. It enables the employees to book any facilities they require. This project helps the human resource manager to calculate the employee's payroll and overtime pay. It enables the employees to submit their leave form to the human resource manager. It also automates the functions of project management department like project planning, project scheduling, maintaining client details and generating client project status reports. The employee availability status can be viewed based on which the project manager can schedule the project.

Keywords **— Infrastructure, Human Resource Management, project.**

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I.   INTRODUCTION

An organization is a cohesive entity that has some mission or defined goals. The organization (or the people in it) performs some tasks to achieve these goals. Knowledge helps perform these tasks better, faster, cheaper. The main goal of knowledge management is to help reduce cost, reduce cycle time, or improve quality through the effective use of knowledge. In an organization which is in the business of software development, as the main assets are the intellectual capital, knowledge management is particularly important. Knowledge can be external, i.e. which is produced by people outside the organization. This type of knowledge resides in books, journals, magazines, etc. Knowledge can also be internal, i.e. the knowledge that is created primarily within the organization, largely through experience and experimentation. Generally, the goal of knowledge management within an organization is to manage the internal knowledge of the organization (creation of which uses external knowledge.) Leveraging experiential knowledge is the focus in the experience factory model, and is envisaged at the higher levels of the capability maturity model.

In this paper we also focus on the management of internal knowledge, particularly the knowledge that is useful in project management, i.e. use of which can make project management more effective. Suppose in a software organization, there exists a "super" project manager who consistently executes projects successfully, whose estimates are generally on target, and who seems to avoid the "fire fighting" mode most of the time. Clearly, this project manager has acquired the knowledge to

properly perform the various tasks associated with project planning and execution through experience.

II. EXISTING SYSTEM

The existing system is the manual maintenance and the excel maintenance of the records that will bring the difficult to retrieve the particular data. The maintenance of record will need the secure place to store the record. This existing system brings lot of correction in updating the data of the employee working in the organization.

A. Disadvantages

This again is a drawback as a whole. Hence this includes the following Demerits with the Existing System. Major limitations of existing system are

- Data Duplication
- Inconsistency
- Manual monitoring of information

III. PROPOSED SYSTEM

In the Proposed System that is developed in ASP.Net by creating a Website one could know about the Institution completely (i.e.) it gives proper information about the company to people in general. Moreover the main advantage of this Website creation is that, this enables people all over the World to view details about the Institution. The present availabilities of Internal Management front office management, HR, process management.

B. Advantages

- Easy to use
- Maintain the records easily

IV. MODULES DESCRIPTION

The main objective of Internal Management Infrastructure & Process Control system is to computerize all the activities carried out in a software development firm. This system mainly concentrates

- Front office Management
- Human Resource Management
- Process Management.

1. Front office Management

This module are used to provide the details about all the activity of employee timing , customer enquiry information and phone call information. This module contain three sub module such us

1. Employee Time details
2. Customer Enquiry Form Details
3. Call Details

Employee Time details:

This module provides the information about the employee IN and OUT time details for everyday, which is used for, create the salary details done by Human Resource Management.
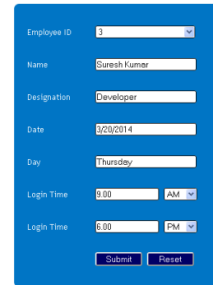

Fig 1 employee timings entry module

Customer Enquiry Form details:

This module provides the details regarding the customer enquiry about our activities. This module information is used for process management process.
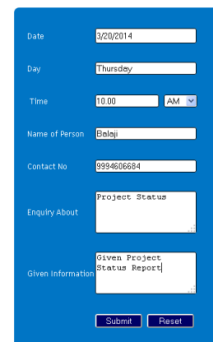

Fig 2 Customer Enquiry Form details:

Call Details:

This module is used to provide the details about incoming and outgoing phone call details. It is also provide the useful details for process management
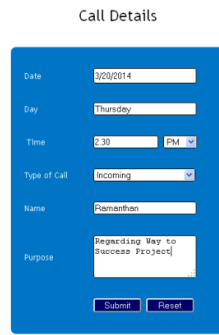
Call Details

[Form image]

Fig 3 Cell entities details

Human Resource Management:

`This module provides the details about the employee details and their leave information, over time details. Possessing these three information the employee salary will be calculated by the Human resource management. This module contains 4 sub modules.

1. Employee Details
2. Leave Details
3. Over time details
4. Salary Details

Employee Details

This module contains all the information about the employees.

Leave details:

This module provides the details about each employee leave information, which is used to calculate the salary information.
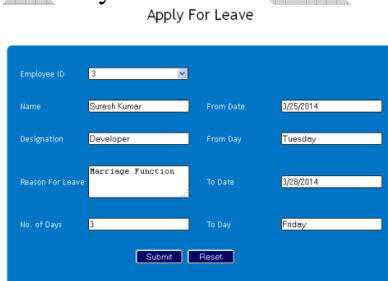
Apply For Leave

[Form image]

Fig 5 Appling Leave and leave module

Over Time details:

This module provides the information about each employee overtime working details which is very useful for calculating the employee salary.

Salary details:

This module provides the salary details for every employee.

Process Management:

This module provides the information about Group and its member's details and also provides the information about project splitting and status of the particular project. This module contains 4 sub modules.

1. Group Details:
2. Group Member Details
3. Project Split Details
4. Project Status details

Group Detail

This module provides the details about group name and its leader name. which is used to allocate the project to the particular group.

Group Member Details:

This module provides the whole information about the group name and group leader name and its member names.

Project Split Details:

This module called project allocation module. This is very important module which contains the details about what are the projects allocated which group and its leader name and member name. Here the project starting and end date are also mentions.
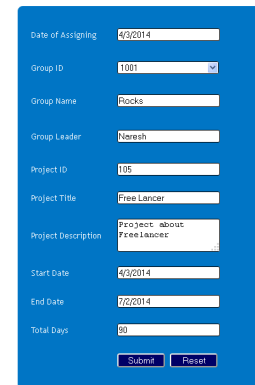
Project Allotment

[Form image]

Fig 6 Project Allotment and spited details

Project Status Details:

This module provides the details about the particular project status such as the project is finished or ongoing.

Project Status

Fig 9 Project Status cheeking module

V. CONCLUSIONS

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

- ➢ Infrastructure and Controlling Systems of the entire system improves the efficiency.
- ➢ It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- ➢ It gives appropriate access to the authorized users depending on their permissions.
- ➢ It effectively overcomes the delay in communications.
- ➢ Updating of information becomes so easier.
- ➢ The System has adequate scope for modification in future if it is necessary.

This application avoids the manual work and the problems concern with it. It is an easy way to obtain the information regarding various tasks that occurring in Internal Management System Concerns. The next enhancement that we can add the communication between the clients. In Future it has implement with SMS and Mail Alert system

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