

Industrial Network for People and Resources (IPRnet)

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ABSTRACT :

In an Organisation it is necessary to manage all the employees and projects. It is necessary to perform all the tasks simultaneously and managing all the tasks scheduling the period of each task assigning every task to perfect employee and giving the deadline for each task that's why all the employee can complete his/her task on time.

At present many Organisations are facing problem to maintain their employees, projects, scheduling tasks providing user-friendly environment. Another difficult task for an Organisation is to moulding project, dividing module in numbers of tasks and assign to each employee. Finding the project completion time, current project status availability of employee, remaining time of project, number of employee working on the project, progress of each and every employee are very complex task.

This system (IPRnet) is aimed to manage employee and overall work of the company as well as they store all the information of employee included module of this IPRnet. In this System project manager and team leader of any organization can divide the project into small module and assign to our employees.

Keywords: Problem Tackle ,Integrate System, User-friendly,

LITERATURE SURVEY

Complete Referance ASP.NET by *Herbert Schildt* ASP.NET is a set of Web development tools offered by Microsoft. Programs like Visual Studio .NET and Visual Web Developer allow Web developers to create dynamic websites using a visual interface. ASP.NET also supports Visual Basic.NET, Jscript, .NET and open-source languages like Python and Perl.

ASP.NET is built on the .NET framework, which provides an application program interface (API) for software programmers. The .NET development tools can be used to create applications for both the Windows operating system and the Web. Programs like Visual Studio .NET provide a visual interface for developers to create their applications,

which makes .NET a reasonable choice for designing Web-based interfaces as well.

SQL Server is a relational database management system (RDBMS) from Microsoft that's designed for the enterprise environment. SQL Server 2005, which provides an enterprise data-management platform with advanced business intelligence functionality and impressive and administrator productivity features. It helps us to manage data i.e. the data is stored in a computer database.

IJ INTRODUCTION

1.1 Problem Definition

The interaction between various levels of management is not as fast and efficient as needed within all branches in any organization . This application is an attempt to provide powerful and fast interactive, flexible and secure interaction between the employees .

1.2 Previous Work

In a company where the hierarchy of employees spans over thousand managing the work with them is a difficult job. In an environment where number of jobs is done simultaneously it difficult task selecting the right person for the job.

In the present system all the records of projects details, branch details, client's details, employees details, tasks details related to each employee with its associated resources within their related branches are kept manually. Managing and scheduling each task are difficult for organization. Due to this reason the performance of employees at low level organization won't get communicate directly with their higher level authority. And once generated report for each project and its associated module by the lower level employee is transferred manually to their related.

1.3 Purpose

Industrial Network for People and Resources (IPRnet) can be used as an application & employee hierarchy to manage the schedule and task of small and big organization. IPRnet, is the

windows based web application by which any organization can manage task among its employees.

1.4 Modules:-

1.4.1 Admin

The module authorization to admin for adding, modifying and deleting the branches and employees. This module allows to allot projects to various Project Managers. It allows the Admin to monitor the status of employees and ongoing projects. The module also allows to chat and have video conference with low level employees. It allows to block an account of an employee, if the respective employee is unavailable without any valid reason.

1.4.2 Project Manager

This module provides the authorization of assigning the projects to various Team Leaders under its authority. It also allows to monitor the status and performance of employees under its authority. Video Conferencing and Live Chat is another feature under Project Manager's Authority.

1.4.3 Team Leader

This module allows to allot the sub-modules of on going project to different employees under Team Leader's authorization. It allows Team Leader to monitor status and performance of employees under its authorization. It also allows to Live Chat and Video Conferencing with employees under its team.

1.4.4 Developer

This module allows to generate daily, weekly and monthly reports of respective projects and send them to higher authorities.

1.4.5 Live Chat

Live Chat module allows each higher level authority to Chat live with their respective lower authorities.

1.4.6 Video Conferencing

Video Conferencing module allows each higher level authority to Video Chat and conduct live conference with their respective lower authorities.

1.4.7 PC Sharing

PC Sharing module will allow each higher level authority to share the PC of its lower level employee and monitor their performance.

1.4.8 Reporting

Reporting Module will allow each lower level employee to generate reports about their task on daily, weekly, and monthly basis and send them to higher level authorities.

II] Methodology

2.1 Introduction to ASP.NET:-



ASP.NET is built on the .NET framework, which provides an application program interface (API) for software programmers.. Programs like Visual Studio .NET provide a visual interface for developers to create their applications, which makes .NET a reasonable choice for designing Web-based interfaces as well.

In order for an ASP.NET website to function correctly, it must be published to a Web server that supports ASP.NET applications.

2.1.1 Introduction to C #

C# is intended to be a simple, modern, general-purpose, object-oriented programming language for developing sophisticated professional application for Microsoft window.

It makes use of GUI for creating powerful application. It is an enjoyable language. In addition of being graphical and simple to use C # that has become one of the today's most popular language because it is both inter-operated and compiled. It handles the most difficult compilation steps that other language use to require use to go through. C# is intended to be suitable for writing applications for both hosted and embedded systems, ranging from the very large that use sophisticated

operating systems, down to the very small having dedicated functions.

Visual designers for building Windows and Web applications.

Compiler.

Debugger.

The advantages of C# :-

Interactive Development Environment.

2.2 ACTIVE X DATA OBJECTS.NET Overview

ADO.NET uses some ADO objects, such as the **Connection** and **Command** objects, and also introduces new objects. Key new ADO.NET objects include the **dataset**, **datareader**, and **Data Adapter**.

The following sections will introduce to some objects that

have evolved, and some that are new. These objects are:

Connections. For connection to and managing transactions against a database.

Commands. For issuing SQL commands against a database.

Datareaders and relational data.

Dataadapters. For pushing data into a **dataset**, and reconciling data against a database.

. For reading a forward-only stream of data records from a SQL Server data source.

Datasets. For storing, remoting and programming against flat data, XML data

2.3 Introduction to SQL SERVER 2005



SQL Server is a relational database management system (RDBMS) from Microsoft that's designed for the enterprise environment. SQL Server 2005, which provides an enterprise data-management platform with advanced business intelligence functionality and impressive and administrator productivity features. It helps you to manage data i.e. the data is stored in a computer database. SQL Server

2005 provides components and tools to help implement a comprehensive, end-to-end business intelligence solution, whatever your analysis and reporting needs are. Storing of any data of any organization is very essential for future retrieval. Thus SQL SERVER 2005 allows the user to store the data any time needed to retrieve it. We can use the data to analyze and print.

III] TABLES & FIGURE

3.1 Tables

3.1.1 Hardware Configuration

| Hardware Components | Required Configuration |
|---------------------|------------------------|
| Processor (CPU) | Pentium IV or above. |
| RAM | Minimum 256 MB |
| Hard Disk Space | 500 MB/2 GB |
| Monitor | Normal |
| Keyboard/Mouse | Normal |

Table 2.1(a): hardware configuration

3.1.2 Software Configuration

| Software Required | Required Configuration |
|-------------------|---|
| Operating System | Windows XP(SP-3) / Windows 2007 |
| IDE | Microsoft Visual Studio 2010(C#.Net), Framework 4.0 |
| Database | SQLserver2005 |

Table 2.2(b): Software Configuration

3.2 Figure

3.2.1 System Flowchart:

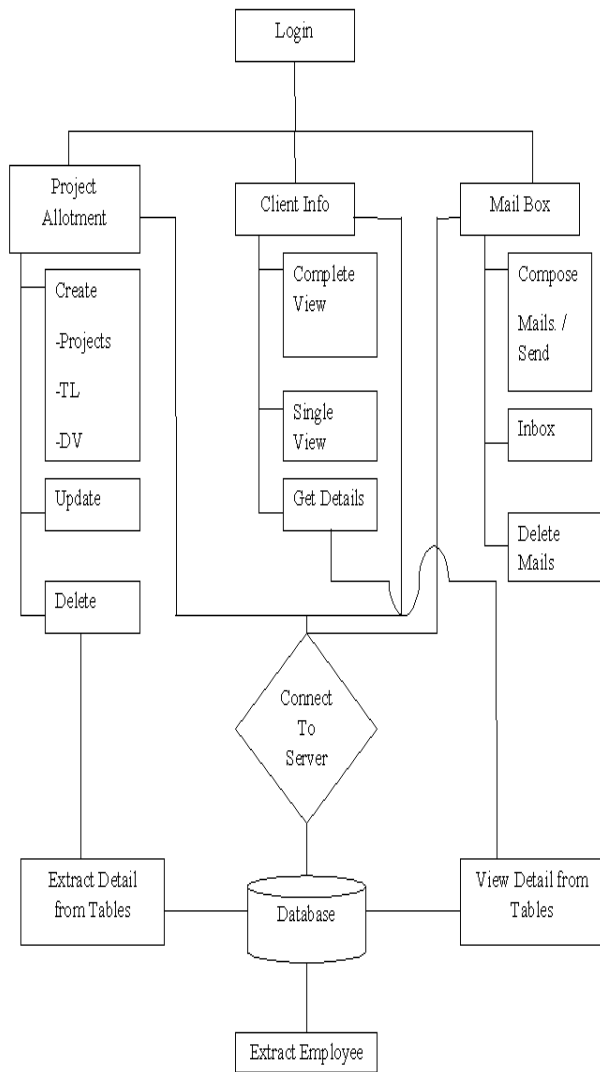


Fig 3.2(a): system flowchart

3.3 Advantages of Proposed System

1. Although the current system is confined to only one firm its performance is limited and restricted to the company. It spans over all the departments which can reach the server from their systems though LAN network.
2. The application is made as simple as surfing a website. There by non technical persons can also interact with the processing on the application easily.
3. Provides instant information regarding the work under process within the company.
4. Easy management of data as located at a server.

3.4 Scope of Proposed System

- 1] IOS will allow the employees to interact with each other instantly within the campus and even with employees in remote campuses.
- 2] IOS will serve Live Chat and Video Conferencing among various levels of hierarchy within the company.
- 3] PC sharing will be another advantage to allow an employee to share the data with higher level authorities.
- 4] Reports can be generated on daily, weekly and monthly basis, to allow higher authorities to monitor the status of the ongoing projects.

4 Conclusion

Admin Module Concludes the following :

Views Details of all the Clients.

Allots Projects to Project Manager Team Leaders.

View Details of all the Employee.

Add Branch, Designation, Country, State, City and Create Employee

5 Acknowledgements

I would like to thank is my Project Guide **Prof. A. Khaparde**, Professor of **INFORMATION TECHNOLOGY**, RGCER , Nagpur . His enthusiastic engagements in my project work and his/her never-ending stream of ideas have been absolutely essential for the results, presented here.

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