



Database Management Systems

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TY Comp Div-2, T4 Batch

.Company Systems Workflow Mapping

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1. Introduction

In this world of growing technologies everything has been computerized. Most of the daily routine tasks needs to be automated to increase the proficiency in the work. With large number of demands and working opportunities the data size has been increased. Thus, there is a need of a system which can handle the data efficiently. This project simplifies the task to maintain each and every working group of the organization. It stores the data efficiently and makes sure that it is used effectively.

The Company Management System has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by the organization. Moreover, this system is designed for the particular need of the organization to carry out operations in a smooth and efficient manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves its user friendly.

The Company Management System will have certain roles that will perform the Top-Level Management tasks, certain roles for performing Mid-Level Management tasks and Employee role which enhance the integrity of the company. The tasks are assigned and completed in a agile manner.

Whether a large or small organization, it has to manage multiple tasks at the same time. Manually doing all those tasks lacks in efficiency and also takes a lot of time. Managing all the paper work is also a challenging task, so now a days there is a demand of having all the task managed from a single compact workspace that will make an organization easy to coordinate between different departments.

To create a better environment and workspace for each client as well as the employee is vitally important to run the routine cycle of the firm.

Company system offers all the features required by a firm to perform the ongoing tasks and create a convalescent domain. The main aim of the Company System is to keep healthy workplace.

2. Objective

The Project will allow admin to add new employees, managing their work, adding new client projects, assigning work to employees, marking employee attendance, managing Project files & reports, salary management, invoice and receipt generation, etc. which makes the whole organization managed effectively by using a single application.

Every organization, whether big or small, have multiple assets which need to be managed properly in order to achieve maximum profits, therefore we designed exclusive Company Management System that adapt to all the managerial and daily routine requirements. This is designed to assist in strategic planning and will help you ensure that your organization is able to achieve its goals. This system ultimately allows you to better manage resources.

This Project will provide:

1. **Enhanced management** - Well-organised and systematised business processes.
2. **Increased employee engagement** - Each member of staff is actively involved in the decision-making processes thanks to an excellent information flow.
3. **Collaboration** - Cross-functional teams working along to achieve specific company goals.
4. **Simplicity** - Things are operating smoothly, easily and efficiently; the system is user-friendly, which makes navigating between different screens seamless and effortless for anyone with access rights.
5. **Costs** - An all-in-one business management solution will save you money that you would otherwise have to pay for each individual piece of software providing various services.
6. **Accessibility** – Allows you to access the parts of the system that you need regardless of time or place and, at the same time, prevents those with no access rights from entering; it simply matches access to responsibilities and ensures that the information stays secure.

3. Abstract

There are in numerous of activities which needs to be performed for the smooth flow of the company. Handling these tasks manually would take lot of time and will affect the outcome adversely. “Time is Money”, which brings our Company System into picture. This project helps to reduce the manual tasks, and computerizes the various assets that will boost the company’s progress.

“Company Management is like juggling three balls: time, cost and quality. Company management is like a troupe of circus performers standing in a circle, each juggling three balls and swapping balls from time to time.”

~ G. Reiss

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4. Keywords

Employee Management System, Training Programs, Hiring System, Evaluation Platform, Employee Assessment System, Project Management System, Client Management System, Finance Structure, Invoice generation, Report generation, Attendance System, Salary System, Responsive Pages, Database Management.

5. Presently Available System

A Company not only needs automation but also to maintain the workflow and make reliable updates to maintain the stage as planned. Having a distinctive software helps to boost the enterprise tasks resulting into the growth of the firm. The identification of the needs and implementation of the current and future demands are essential for any organization.

The current system includes bunch of manual tasks which eventually slows down the time period of the firm. Having an automation system will help to do the frequent tasks with much swifter and robustness.

Some of the renowned Company System software are Zoho One, Scoro, StudioCloud, Odoo, BaseCamp, NetSuit, Clarizen, etc. and their common features are:

1. User-Friendly Interface.
2. Mobile Accessibility.
3. Structured Task Planning.
4. Task Scheduling.
5. Task Tracking.
6. Task Communication.
7. Integrated Time Tracking.
8. Collaborative Features.

6. Hardware and Software Requirements

Hardware Requirements

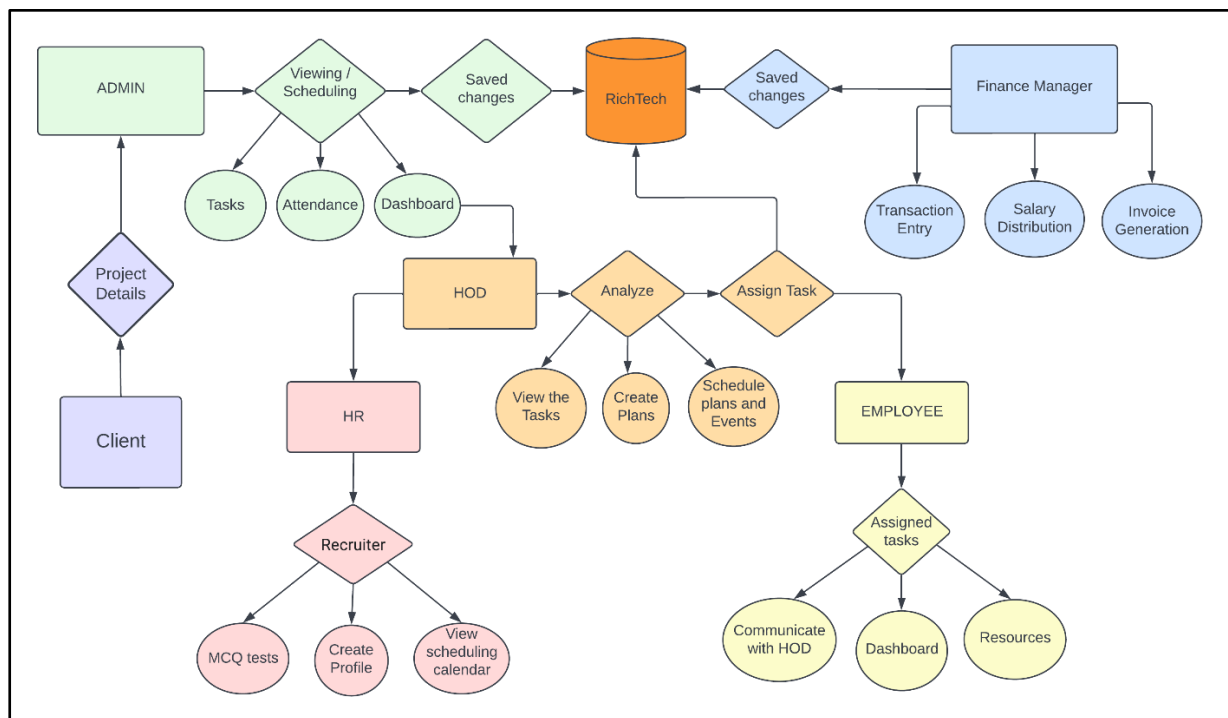
- Processor : Intel i5 5th Generation
- Cores : 4
- Processor Speed : 3.0 GHz
- RAM : 4 Gigabytes
- SSD : 1024 Megabytes
- Speed : 1.10 GHz
- Clock Speed : 2.4 GHz
- Graphics : Intel Iris XE

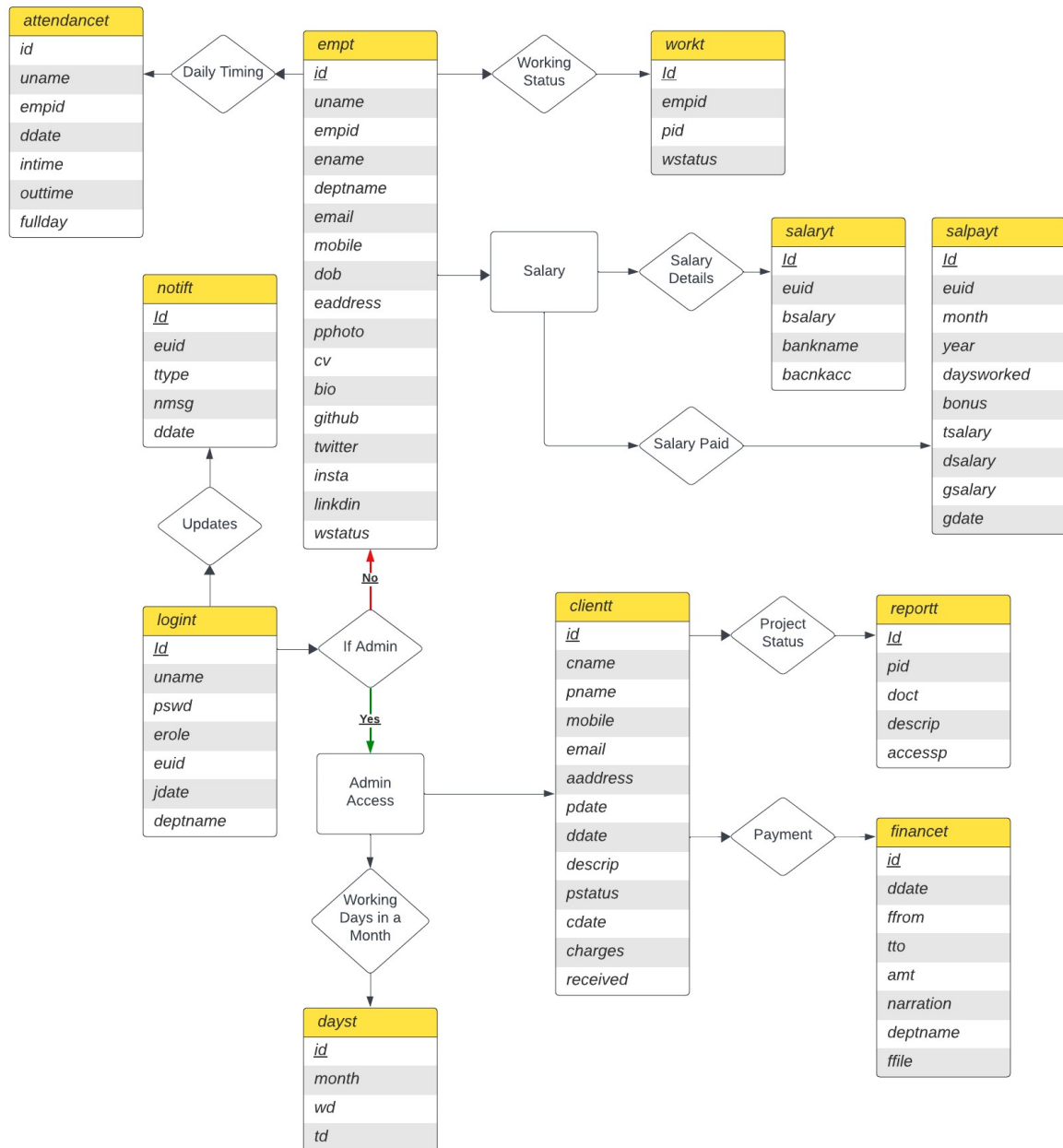
Software Requirements

- Operating System : Windows 11 / Linux
- Application : Xampp, Apache Server
- Tools and utilities : PHP Server, Git Bash
- IDE : VSCode / NVIM / Vi / Sublime
- Front End : HTML, CSS, JS
- Framework : Bootstrap
- JavaScript Libraries : jQuery UI, jQuery Migrate, Data-Tables.

7. System Design

a. ER Diagram





b. Functional Dependencies

Table: salpayt

gsalary <- (tsalary, bonus, dsalary)

Table: attendancet

fullday <- (intime, outtime)

Table: dayst

td <- (month)

8. Salient Features

1. Effective Management:

A high-quality software which manages each aspect of the company in a single workspace. It helps the High-Level Management to assign and keep track of the activities which are performed by the employees. Additionally, the application provides the feature to manage all kinds of reports like Invoice, Receipts, Project Details, etc. into a single workspace. This makes them easy to manage and store.

2. Work evaluation:

The application provides the feature to assign the project task to multiple employees and keep track of their work. Their work can be evaluated and train the employees in order to improve the project quality.

3. Leadership:

One of the keys to a successful working and development Organization, and possibly the most important, is leadership buy-in from the top down.

Having leadership support helps to drive the importance of a program, assist with accountability and establish appropriate expectations. Leaders are provided with a better view towards the whole working order and helps to provide a better communication medium between different departments.

4. Accessibility:

Allows you to access the parts of the system that you need regardless of time or place and, at the same time, prevents those with no access rights from entering; it simply matches access to responsibilities and ensures that the information stays secure.

5. Avoiding errors:

With business management software, you only introduce the information once and the system will take care of the rest; this automation leaves no room for any error whatsoever.

6. Collaboration:

Whether on-premise or remote, this application brings the team together with active collaboration features. We can also connect with different departments quickly. The Project reports are stored effectively which provides a vital learning resource for freshers.

7. Security:

The Company System works in a secured environment. The security is maintained by encrypting the password, specifying roles in hierarchical manner. The user input is sanitized which would not lead to any issues. The queries are programmed using prepared statement to pass exact data needed to avoid any kind of vulnerability in the software.

9. Future Prospect

Organizations have used management systems for a long time to help them create value and reach their objectives by actively managing risks and continually improving their performance. Such systems help companies manage a range of issues to do with quality, occupational health and safety, and the environment, as well as social and ethical concerns. But for management systems to continue to be a driving force for change, they must adapt.

In the Digital Transformation use of big data will become a key basis of competition and growth for individual firms. Organizations will leverage data-driven strategies to innovate, compete and capture value from deep, real-time information. However, there is also the issue of rising security and privacy threats. As analytics and social media reach every aspect of an organization, safeguarding data will continue to be a major concern for individuals and organizations.

The key feature of Company System is to manage and process the data in an effective manner which results the outcome to be the best.

The Software is built with the use of Open-Source languages and utilities such as PHP, JS, jQuery, which have the potential to adapt themselves with the changing technologies. Flexibility, Scalability, Robustness are some of the key features of Company Management System.

10. References

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