

PAYROLL MANAGEMENT SYSTEM FOR CU-HTD

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Abstract. The Payroll Management System makes payroll processing faster and easier by reducing the time and effort needed to handle employee salaries and leaves. It solves common problems such as errors in manual calculations and long processing times, improving payroll management for both employers and employees. Our system greatly reduces mistakes, saves time, and makes payroll tasks clearer and more efficient.

Keyword: payroll, management, system, admin, user

INTRODUCTION

A Payroll Management System is an important tool for handling employee pay. It features a strong backend that ensures accurate calculations of salaries, bonuses, and deductions while following legal requirements. The admin side allows easy management of employee records and automated tax calculations, reducing mistakes and improving efficiency. On the employee side, users have a simple interface to securely log in and view their pay details, including earnings and deductions, as well as their payroll history. This clear information helps employees understand their pay better and makes the overall payroll process smooth and effective for everyone involved.

PROBLEM

Organizations using manual payroll processing face several challenges that can lead to inefficiencies. One major issue is the frequent errors in calculations, often caused by human mistakes during data entry. These errors can result in incorrect salary payments, causing employee dissatisfaction and potential compliance issues. Additionally, manual payroll processes are time-consuming, requiring significant administrative effort to manage salaries, leaves, allowances, and deductions. This can distract the Finance Department from more important tasks. Moreover, when payroll information is unclear, it creates confusion among employees, harming their trust in the system and affecting morale.

APPROACH

To solve payroll issues, we created an easy-to-use Payroll Management System for two main roles: admins and users. Admins can log in with their email and password to handle payroll tasks, such as setting employee salaries, tracking leave deductions, and creating pay

slips. The system automatically gathers important information, which speeds up calculations and reduces mistakes, making the process more efficient.

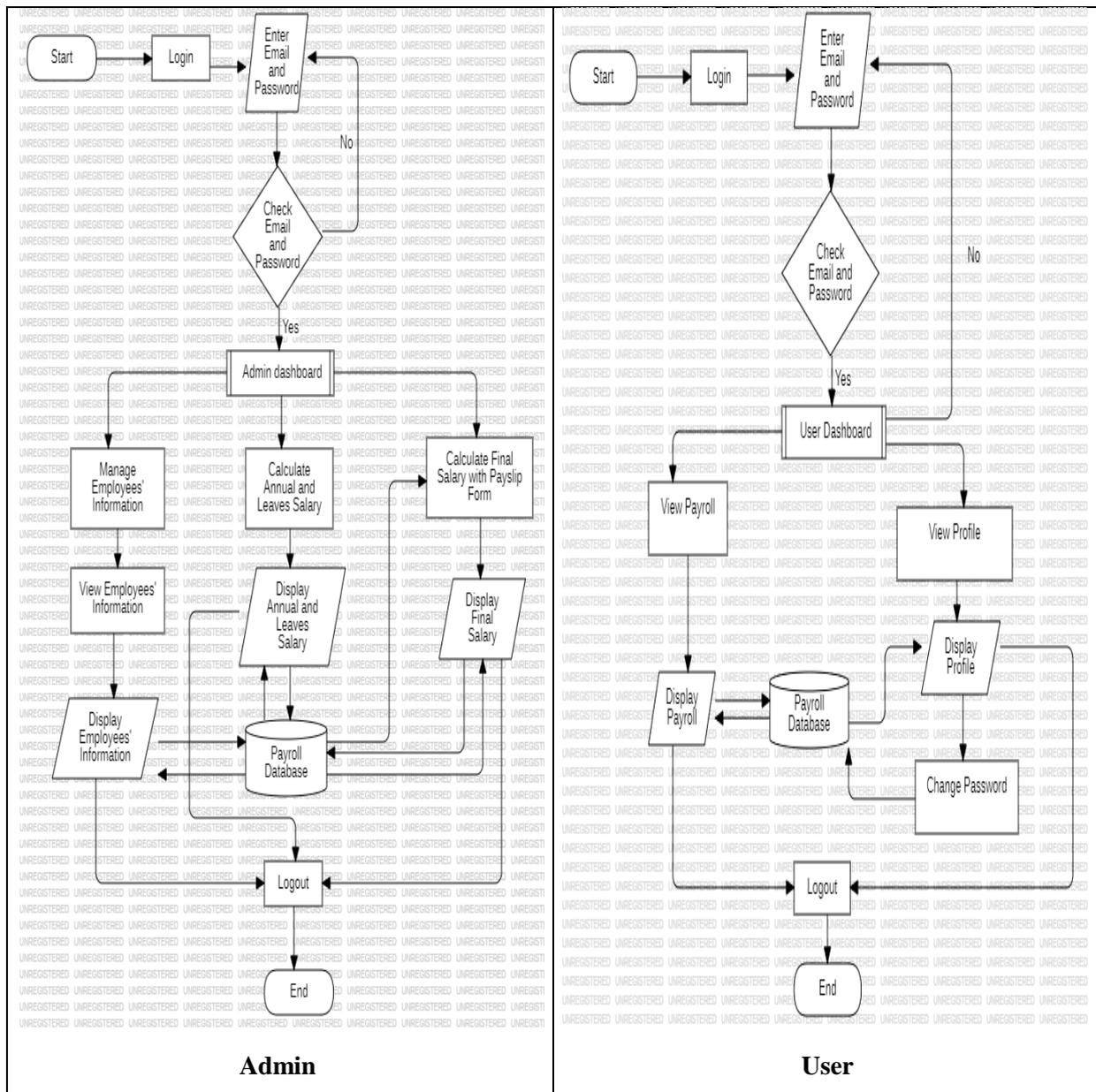


Figure 1: System Flow Diagram

For users, employees log in with the email and password given by the admin. They can see clear details about their pay, including how their salaries are calculated, along with any deductions and bonuses that apply. This transparency fosters trust between employees and the university, as workers gain a clearer understanding of their earnings. Additionally, the system enables employees to track their pay history, which can aid in financial planning. By streamlining the payroll process, it also minimizes administrative workload, allowing staff to focus on other important tasks. Ultimately, this improved access and clarity lead to higher job satisfaction and retention rates. As employees feel more empowered and informed, they are likely to engage more fully with their roles. This proactive engagement can contribute to a

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positive workplace culture and overall institutional success, ultimately benefiting both employees and the university as a whole. Moreover, a satisfied workforce is more likely to provide better service to students, enhancing the university's reputation.

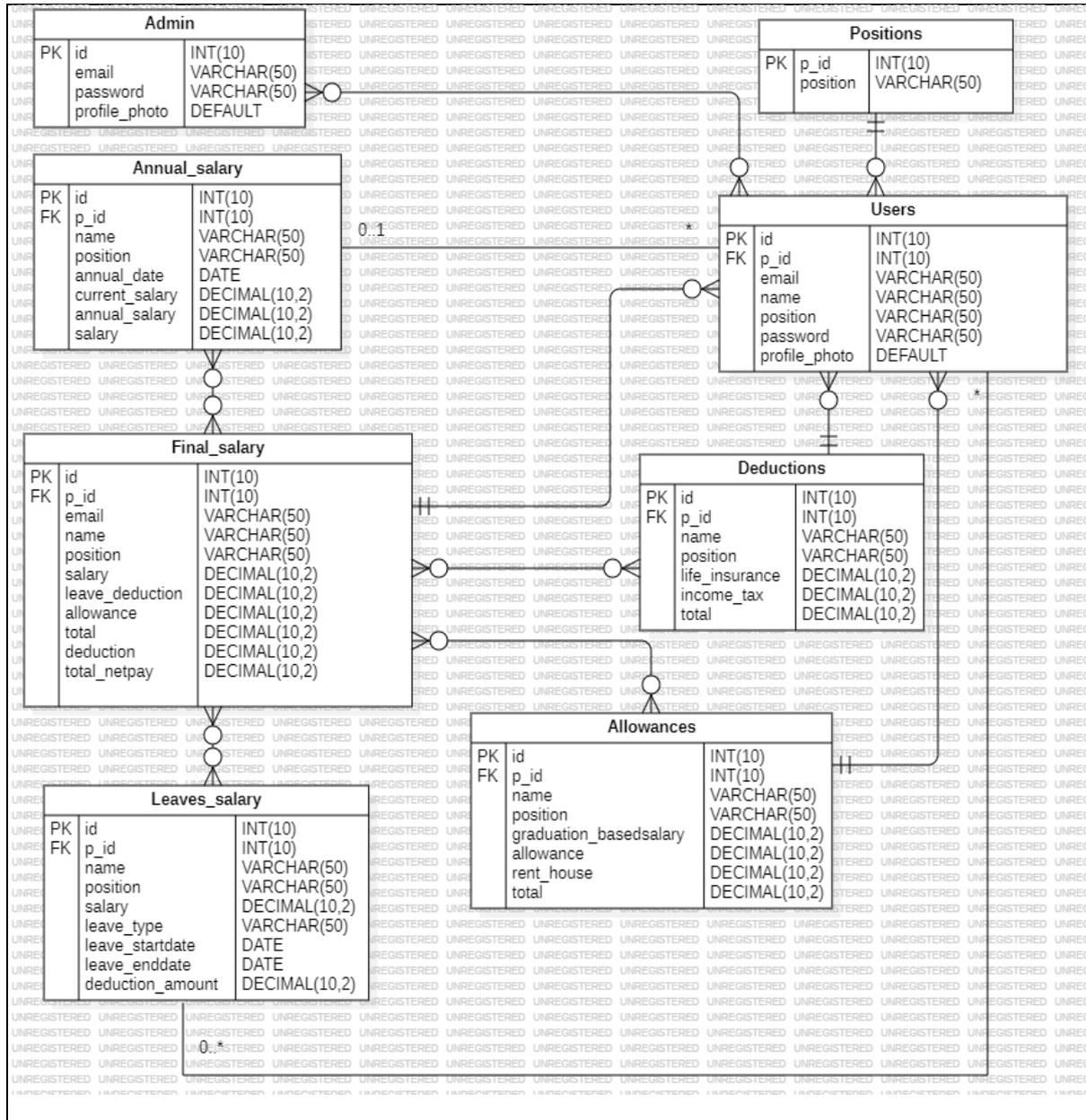


Figure 2: Database Design

An ER diagram for a payroll management system visually represents the relationships among eight key tables: Admin, Users, Positions, Annual Salary, Leave Salary, Allowances, Deductions, and Final Salary. Each table corresponds to distinct entities, with attributes that describe employee details and financial components. The diagram illustrates how these entities connect through various relationships and keys, ensuring effective management and integrity of payroll data.

RESULTS

The design of each page of the payroll management system has been carefully designed and simpler. The automated Payroll Management System has streamlined payroll processing, reducing errors and boosting employee satisfaction. This efficiency allows the Finance Department to focus on strategic initiatives instead of administrative tasks. Future enhancements could include real-time tax updates for compliance, stronger data security, attendance tracking for accuracy, and online access for employees to view their payroll information. Ongoing research is needed to assess the long-term benefits of payroll automation across different industries and improve these systems further.

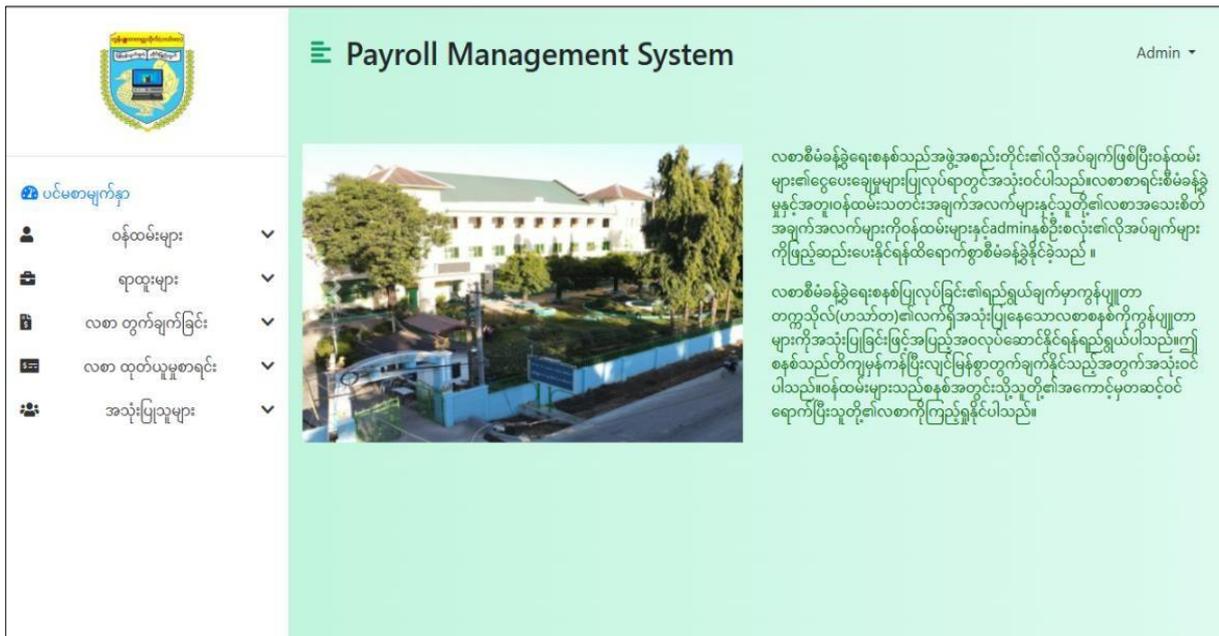


Figure 3: Implementation of this system

CONCLUSION

The Payroll Management System effectively streamlines payroll processing for both administrators and employee, offering a user-friendly interface and comprehensive functionality. By enabling admins to easily calculate and store annual and leave salaries, manage allowances and deductions, and view detailed payroll records, the system enhances accuracy and efficiency in payroll management. For employee, the system provides straightforward access to salary details and account management. Overall, this project delivers a robust solution that simplifies payroll tasks, improves data management, and ensures a smoother workflow for all users.

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