

CS331: Software Engineering Lab

Employee Management System: WorkFlo

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1. Abstract

WorkFlo is an employee management system designed to manage the operations and processes of a company. The system provides a centralised platform for managing various aspects of the company such as its employees, departments, attendance, leave, projects, and financials, and facilitates communication between managers and employees.

The system is designed to be used by organisations of all sizes, with features that can be customised to meet the specific needs of the organisation. It will streamline operations and improve efficiency, leading to increased productivity and profitability. It will also provide valuable insights into organizational performance.

2. Introduction

Module 1: Employee

This module contains employee data such as personal information, job details, salary information, and contact details. It also includes features for employee self-service, such as updating personal information, uploading documents, and changing the account password. Admins can use this module to view employee records and manage employee performance.

Module 2: Attendance

This module allows admins to add employee attendance and working hours. The module can also generate reports for admins to monitor attendance trends and identify patterns of absenteeism.

Module 3: Leave

This module enables employees to apply for leave, view their leave balances and history, and check the status of their leave requests. Admins can approve or reject leave requests. This module also has a calendar showing holidays and events that apply to the organization.

Module 4: Projects and Tasks

This module allows admins to assign tasks to employees, track project progress, and generate reports on completed tasks and project timelines. Employees can view their tasks, deadlines, and progress indicators.

Module 5: Payroll

This module automates the process of calculating employee salaries and generating pay slips. It can also handle tax deductions, reimbursements, and other salary-related transactions.

Module 6: Loans

This module allows admins to grant loans to employees and view their loan status, track loan history, and calculate loan repayments.

Module 7: Assets and Logistics Support

This module helps manage company assets by enabling admins to assign assets to employees, track asset allocation, and manage asset maintenance issues. Admins can view the asset inventory and track asset depreciation.

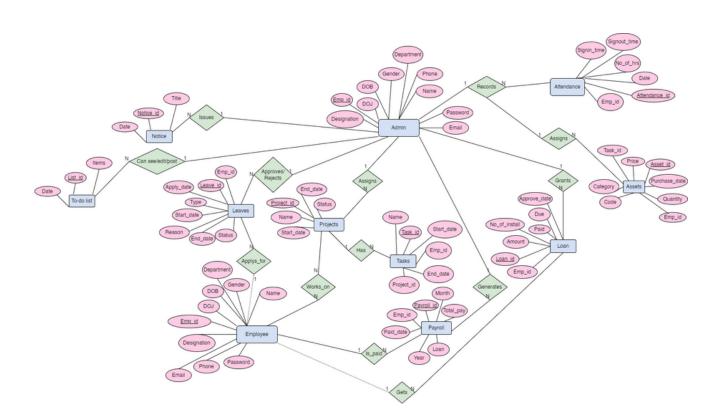
Module 8: Notice Board

This module allows managers to post notices and announcements for all employees to view. Employees can view and comment on the notices.

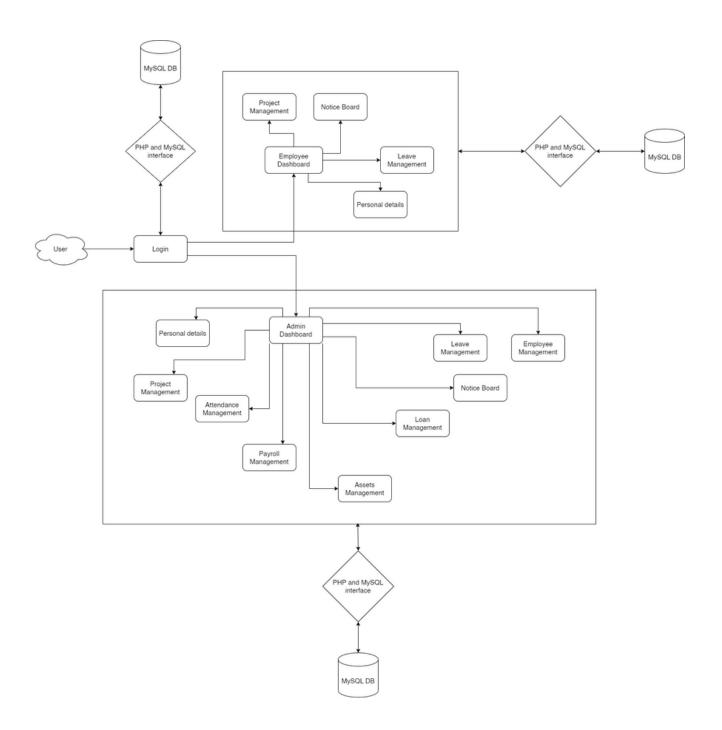
Module 9: Login and Logout

The system supports two types of user privileges, Employee and Admin. It provides the facility for admins and employees to log in and then view the dashboard displaying the total number of employees, leaves taken, loans granted, current projects, and notices. Admins also have the option of adding another person as an admin or employee to the system and maintaining the database of the organization containing the departments and designations,

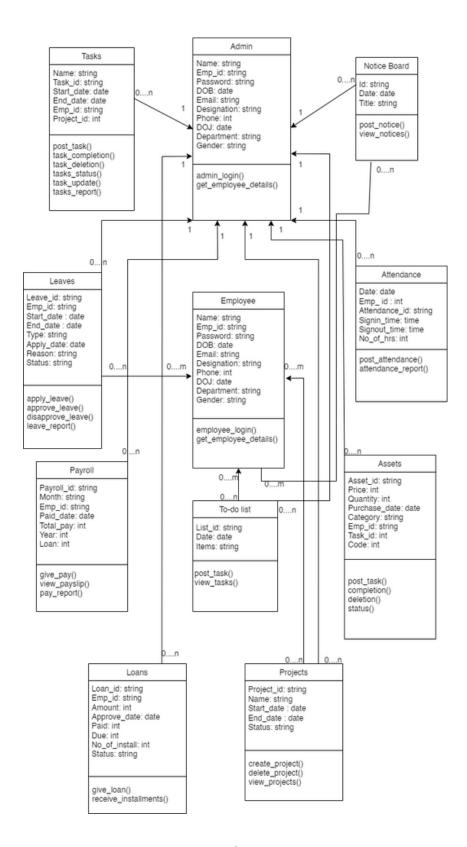
3. Entity Relationship Diagram



4. High-Level Design

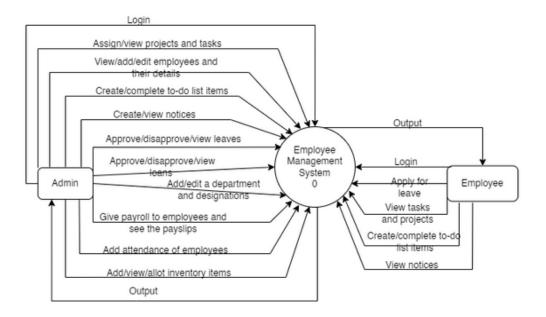


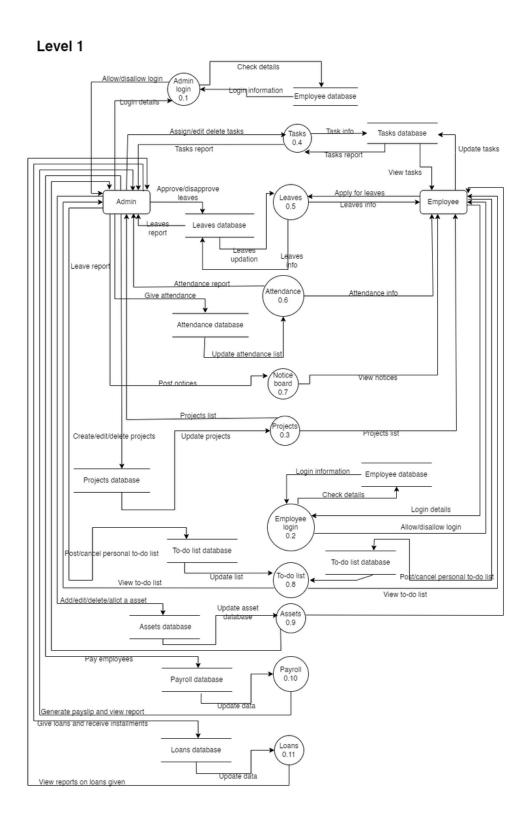
5. UML Class Diagram



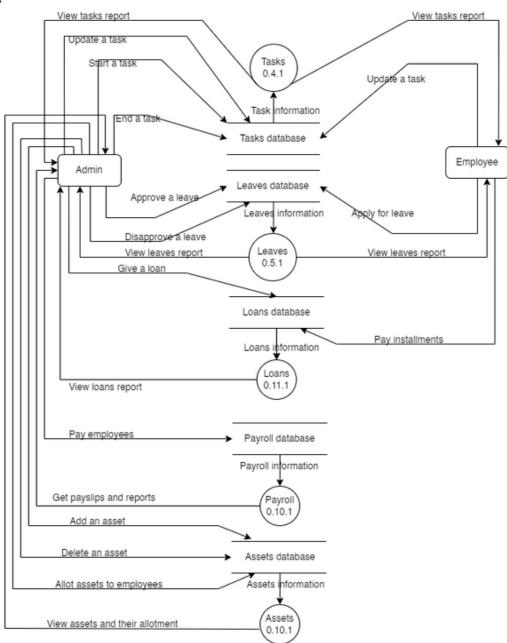
6. Data Flow Diagram

Level 0





Level 2



7. Screenshots

