ICT Project Proposal

HNDIT1052– Individual Project

Leave Management System

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Department of Information Technology

Advanced Technological Institute

Dambawela

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Introduction

Mr. Mohammed Aashik

A leave management system (LMS) is an essential tool for modern organizations to improve and automate the employee leave management process. Traditionally, managing leave requests, approving and tracking leave balances can be a tedious and error-prone task, often leading to inefficiencies in management and HR processes. By leveraging an integrated leave management system in C#, companies can provide employees with a user-friendly platform to request time off, while providing managers and HR teams with a centralized system for reviewing, approving and monitoring permission requests.

Project Proposal: Leave Management System (C# Programming)

Project Title: Leave Management System Development using C#

Background & Motivation

In any organization, employee leave management is a critical function that impacts workforce productivity, operational planning and employee satisfaction. Traditionally, vacation management has been handled manually using paper documents or spreadsheets, leading to inefficiencies such as lost records, approval delays, and a lack of real-time visibility into employee availability. This manual process is often a burden for HR departments and managers, making it difficult to ensure a consistent and transparent implementation of leave policies. As the organization grows, the complexity of permission management increases, with many types of permissions, different rights and balances left to track. The need for real-time reporting and tracking has also become more pressing, especially when organizations need to ensure legal compliance with labour laws and internal policies.

Objective:

To develop a robust Leave Management System that streamlines the process of requesting, approving, tracking, and managing employee leaves. The system will ensure better leave management, reduce paperwork, and improve operational efficiency.

Proposed Solution

1. User Authentication: Secure login system for employees and administrators.

2. Leave Requests: Employees can apply for leave through a user-friendly interface.

3. Approval Workflow: Managers can approve/reject leave requests.

4. Leave Balance Tracking: Real-time tracking of available leave balance for each employee.

5. Leave Types: …

Resource Requirements

Programming Language: C#

Framework: .NET Core or ASP.NET MVC

Database: SQL Server

IDE: Visual Studio

Project Plan

Week 1-2: Requirements Gathering & Planning

Meet with stakeholders to understand detailed requirements.

Document system requirements, user stories, and technical requirements.

Week 3-4: System Architecture & Database Design

Design database schema including tables for

Week 5-7: Front-End Development

Use ASP.NET MVC or Win Forms to create a user-friendly interface.

Week 8-9: Back-End Development

Implement business logic in the C# back-end

Week 10-11: Leave Tracking & Balance Management

Implement logic for leave balance updates (deduct leave, allow carry forward, etc.).

Week 12-13: Reporting & Analytics

Implement reporting functionality

Week 14-15: System Testing & Refinement

Conduct unit testing for individual components (leave requests, user authentication).

Week 16: Deployment & Final Review

Deploy the system on a local server or cloud (e.g., Microsoft Azure).

This extended timeline and additional notes ensure the successful delivery of a high-quality, maintainable Leave Management System within the planned 16-week period.

Reference

- Social Media

https://youtube.com/playlist?list=PLYoyKxGqKo6uc4fg19782BWXbjhGe0JjC&si=aG8isSjDT_wZYP8T

- Software

    NET Core or ASP.NET MVC

    Visual studio

- Devices

- Other