**SOFTWARE ENGINEERING MINI PROJECT - ||**

**PAYROLL MANAGEMENT SYSTEM**

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**Introduction:**

A payroll management system is **software that is used to manage all your employees' financial records in a simple and automated fashion**. This payroll management system manages employees' salaries, deductions, other conveyance, net pay, bonuses and generation of pay-slips, etc. This software helps **streamline and centralizes the salary payments of your organization**. The software calculates salaries, tax deductions, incentives and bonuses etc by itself, sorts out the issues related to payments and deductions and records it digitally into its database.

Payroll Application has been designed to maintain details of various allowances and deductions that need to be given to the employees of the organization. Also, it generates the salary Sheet of the employees of the organization that assists the accounts department in many ways. Payroll is a window Application which is used to maintain the Employee details of the organization or concern in different places; this provides each employee details with unique information.

**Problem Statement:**

Our task is the creation of a payroll management system. The old system is outdated and no longer adequately manages the payroll process and the entry of employee timecard information. Therefore, manual intervention is required to process the payroll. Admin plays the main role to maintain the activities of the employees, client part takes lesser activities, and this system is user friendly GUI based application that will automate the day to day activities of the employees who are working in the concern.

Ensuring that our system can accommodate newly created categories of employees in the future, the system must also allow each of these employees to enter his or her time information via a corporate intranet using a standard Web browser. A user ID and password will be provided to each employee prior to gaining access to this section of the corporate intranet. The payroll process can process only "signed" timecards, which are those timecards that the employee has identified as accurate.

In short, the problem statement is The Admin gets logged in by valid username and password. Admin can add new Employee, add new Department, add new Pay Grade for the employees. Admin can set the ‘from’ and ‘to’ date worked by an employee in a department with specific pay grade. The admin can generate an automated monthly salary of an employee. The admin can view all the past records of any recorded employee.

**Software Requirements:**

It is a Web Based Application Project. A company payroll management system made with Django and MySQL which lets the admin set income and credentials for the employee and provides leave request and approval functionality.

Languages: Python, HTML

DBMS: MySQL

Webserver: Django

OS: Ubuntu 20.04

**Objectives:**

* The aim behind having a payroll management system is **to automate and streamline micro tasks such that the HR team has time to focus on the macro tasks**. You don't have to worry about handling, managing, and creating pay slips, salaries, and deductions of the employees.
* Efficient payroll systems save time and money by ensuring that paychecks go out on time in the correct amounts each pay period. Once the system is set up, many parts can be automated, to reduce errors and delays. Moreover, such systems record data, so if there is a discrepancy, it is quick and easy to pinpoint.
* The objective is to manage employees' salaries, deductions, other conveyance, net pay, bonuses and generation of pay-slips, etc.
* For Businesses, as the payroll system is there, the tax deductions are also automated or handled by the outsourcing team. You only have to focus on major tasks such as the efficiency of sales, revenue, strategy, etc.

**Hardware Requirements:**

Processor: Intel core i3

RAM: 4GB

HDD: 1TB

**Features:**

* Easy to use and Completely Secure.
* Completely controlled by Admin
* This system is easily compatible with most of the web browsers.
* It is very interactive, saves time and reduces paperwork.
* Admin can view all the records whenever necessary with ease.
* calculate net income and deductions for employees.
* Integrated Accounts, Recording files and Payslips.
* Keep Tracking of Earning and Tax Management.
* Know about Streamlining. High level Security.

**References:**

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