



**PAYROLL SYSTEM: CHECKING SALARIES BASED ON HOURLY RATE
AND WORK HOURS.**

In Partial Fulfillment of the
Requirements for the Subject
Computer Programming I
and Introduction to Computing

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Introduction

There are many different jobs, but not all of them have a payroll. Payroll is where the calculations of wages and employees' personal information are stored. There are a lot of payrolls that are used in jobs but the two common types of payrolls are the manual payroll and software payroll. Software payroll is more commonly used than manual payroll because it gives more accurate data than the manual.

Payroll systems are useful for calculating salaries and wages. Without payroll systems, financial and technical issues might appear, such as inaccurate tax calculations and errors in personal information. The payroll system offers accurate results for employees to access their wages and overtime calculations. The system calculates the salary by multiplying the hourly rate and work hours that is done by the employee. The employee will be the one to input the work hours that he performed within the day or a specific range of days or weeks.

Many jobs are using payroll for checking the salaries of the employees, such as software and manual payrolls. But unlike a manual payroll, the software payroll is more accurate because you are the one who will input your personal details to have access to your salary updates. Also, it is easier to do because, unlike manual payroll, where you are still going to go to your job and ask for the wage, you can just access your updated or current wage through the software.

Moreover, there is less hassle on payroll systems because the salaries are automatically calculated and personal details are secured online. With this, you can easily access your job details, including wage, overtime, and personal details, anytime.

Statement of the Problem

This proposal about software payroll aims to look for benefits that it can give to those employees that want easier transactions.

Specifically, it aims to answer the following questions:

1. What problem/s will employees may face by using software payroll?
2. Do the calculations give accurate answers?
3. What features can be possibly added to make the software payroll more useful than usual?

Objectives of the Study

This proposal will be implemented to assess the needs and comfortability of employees in a company. Specifically, this proposal aims to:

1. For the employees to have an easier access to their salary and personal details by using software payroll.
2. To bring comfort by showing transparency to the employees about their wage.
3. To find possible problems that may occur in the software.
4. To find possible features that can be added in the software for a better use.

Scope and Limitation:

Scope:

The payroll system focuses on managing employee compensation. The system allows users to add an employee, display the existing employees, and search for a specific employee using ID number. It provides a simple, text-based interface developed in Python that promotes better definition, types, practical applications, benefits and advantages among your employees. The system aims to serve as a useful software to employees by allowing them to input their own personal details to have access to their salary wages and overtime calculations.

Limitations:

The system is limited to basic task management functions such as security access control, and computations for deductions. This system has its several constraints that could affect their applicability. Additionally, the system must be run manually through a Python environment and does not have a graphical user interface (GUI). The system is designed primarily for authorized personnel use and may not support potential bias for professional or large-scale project management.

System Requirements

Hardware Requirements:

In small businesses (1-50 employees):

- Processor: Intel i5 or equivalent (with 4 cores)
- RAM: 4-8 GB - Storage: 500 GB SSD
- Database: SQLite
- Deployment: Local Machine (Laptop/PC)

In medium businesses (50-200 employees):

- Processor: Intel i7 (with 6-8 cores)
- RAM: 8-16 GB
- Storage: 1 TB SSD
- Database: SQLite
- Deployment: On-premise Server

In large businesses (200+ employees):

- Processor: Intel Xeon (with 8-16 cores)
- RAM: 32-64 GB
- Storage: 2-4 TB SSD
- Database: SQLite
- Deployment: On-premise Server

Software Requirements:

- Operating System (OS):

Server: Windows 2016+

Client: MacOS or Mobile (iOS or Android)

- Programming Language: Python
- Database: SQLite
- Deployment: On-premise Server or Google Cloud

Flowchart (INSERT IMAGE)

