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**Tagoloan Community College**

BaluarteTagoloan Misamis Oriental

Members: Association of Local Colleges and Universities (ALCU)

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**COLLEGE OF INFORMATION**

Member: Philippine Society of Information Technology Educators (PSITE)

**(Payroll System)**

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**INTRODUCTION**

Payroll processing systems are an essential part of human resource management, and as technology changes quickly in today’s environment, it is only natural that they are evolving into digital platforms. The payroll system is a crucial tool used by businesses to streamline many components of employee net pay, including taxes, deductions, bonuses, and other necessary elements. Businesses of various sizes and sectors can reap substantial advantages from implementing a payroll management system. Payroll management systems can save time and money for businesses by lowering errors, strengthening adherence to labour rules and regulations, boosting data security, raising employee happiness and retention, and offering real-time reporting and analytics (Asha, 2023).

The payroll system becomes the primary source for obtaining vital information about employee remuneration by connecting with finance and human resources operations with ease. When examined, this data can offer insightful information about labour trends, financial allocations, and cost-control tactics. Moreover, an advanced payroll system helps the company stay in compliance with labour regulations, tax duties, and regulatory standards, protecting it from legal issues. Alp claims that state rules are ever-changing, making it challenging for companies to stay up to date.

By assisting in the precise calculation of taxes, deductions, and contributions, a payroll management system can lower the possibility of noncompliance and fines. A data-driven approach to workforce management and organizational planning is fostered by the system’s capacity to produce comprehensive reports and analytics, which enable researchers and decision-makers to make well-informed decisions. Payroll systems also had a lot of positive effects on businesses.

A payroll system promotes equity in the workplace. Monitoring time and attendance can be the most useful feature of a payroll system for any company that employs hourly labour. Employee timecard tracking is made easy with a payroll and timekeeping system. These systems keep track of hours worked, overtime, sick leave, and other variables. They then smoothly synchronize such data to effectively handle payroll (Pope, 2023).

The existing research on payroll systems primarily focuses on their general functionalities, technological aspects, and impacts on organizational efficiency. However, there is a noticeable research gap concerning the specific exploration of strategies and technologies aimed at enhancing both payroll accuracy and compliance simultaneously. While some studies delve into accuracy improvements or compliance measures individually, there is a lack of comprehensive investigations addressing the holistic integration of these goals. A focused exploration of innovative technologies, methodologies, and best practices that directly target the dual objectives of accuracy and compliance in payroll systems is warranted. Such research would not only contribute to the academic understanding of payroll management but also provide practical insights for businesses seeking to optimize their payroll processes.

**Problem Statement**:

The existing payroll system is afflicted by a variety of issues, including inaccuracies in pay calculations, incomplete reporting of taxable employee compensation, and errors in data entry. These challenges can have significant implications, such as financial discrepancies, non-compliance with legal regulations, and reduced employee satisfaction.

**Objectives**:

The following objectives are to persuade by this system:

* To enhance Payroll Calculation Accuracy
* To make Sure All Taxable Compensation Is Completely Reporting
* To increase Data Entry Accuracy
* To input Employees Hours Worked
* To Display total Gross

**Scope**

This system focuses on the development of a comprehensive payroll system that incorporates tax calculations, deductions management, and a one-way system for efficient payroll processing.

**Limitations**

The system does not address broader issues related to payroll management, such as employee benefits administration, payroll outsourcing, or specific payroll software selection. It specifically concentrates on the development of a payroll system with tax, deductions and a one-way system.

Prompt to login if invalid

Employee Information

Gross

Total Deduction

Total Salary Gross

If Total Deduction is >Gross

Net Salary

Log out

+

Login

Cash Advance

Deduction

Hours Worked

**Reference**

<https://www.selecthub.com/hris/payroll-solutions/what-is-payroll-software/>

<https://elearningindustry.com/payroll-management-system-what-is-it-for-and-how-does-it-benefit-your-organization>

<https://alp.consulting/what-is-payroll-system/>

import java.util.Scanner;

public class Payroll {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

boolean loggedIn = false;

do {

System.out.println("Payroll System Login");

System.out.print("Username: ");

String username = scanner.nextLine();

System.out.print("Password: ");

String password = scanner.nextLine();

if (isValidLogin(username, password)) {

System.out.println("Login successful!");

loggedIn = true;

// Proceed with the payroll system

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.print("Enter employee name: ");

String name = scanner.nextLine();

double hoursWorked;

do {

System.out.print("Enter hours worked: ");

while (!scanner.hasNextDouble()) {

System.out.println("Invalid input. Please enter a valid number for hours worked.");

scanner.next(); // Consume the invalid input

System.out.print("Enter hours worked: "); // Prompt again

}

hoursWorked = scanner.nextDouble();

if (hoursWorked <= 0) {

System.out.println("Invalid input. Hours worked must be greater than 0.");

}

} while (hoursWorked <= 0);

double hourlyRate = 75; // Assume that the hourly rate is 75

double taxRate = 0.10; // Fixed tax rate of 10%

double grossPay = hoursWorked \* hourlyRate;

double tax = grossPay \* taxRate;

System.out.println("\nPayroll Summary for " + name);

System.out.println("Hours Worked: " + hoursWorked);

System.out.println("Hourly Rate: ₱" + hourlyRate);

System.out.println("Gross Pay: ₱" + grossPay);

System.out.println("Tax: ₱" + tax);

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

String answer;

do {

System.out.print("Do you want a Cash Advance? (yes/no): ");

answer = scanner.next();

} while (!answer.equalsIgnoreCase("yes") && !answer.equalsIgnoreCase("no"));

double cashAdvance = 0;

if (answer.equalsIgnoreCase("yes")) {

boolean validCashAdvance = false;

do {

System.out.print("Enter cash advance amount: ");

if (scanner.hasNextDouble()) {

cashAdvance = scanner.nextDouble();

validCashAdvance = true;

} else {

System.out.println("Invalid input. Please enter a numeric value.");

scanner.next(); // Clear the invalid input from the scanner

}

} while (!validCashAdvance);

}

double totalDeduction = tax + cashAdvance;

while (totalDeduction > grossPay) {

System.out.println("Total deduction cannot be greater than gross pay.");

// Ask for Cash Advance again

boolean validCashAdvance = false;

do {

System.out.print("Enter cash advance amount: ");

if (scanner.hasNextDouble()) {

cashAdvance = scanner.nextDouble();

validCashAdvance = true;

} else {

System.out.println("Invalid input. Please enter a numeric value.");

scanner.next(); // Clear the invalid input from the scanner

}

} while (!validCashAdvance);

// Recalculate values

grossPay = hoursWorked \* hourlyRate;

tax = grossPay \* taxRate;

totalDeduction = tax + cashAdvance;

}

double netPay = grossPay - totalDeduction;

System.out.println("\nPayroll Summary for " + name);

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("Hours Worked: " + hoursWorked);

System.out.println("Hourly Rate: ₱" + hourlyRate);

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("Gross Pay: ₱" + grossPay);

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("Tax: ₱" + tax);

System.out.println("Cash Advance: ₱" + cashAdvance);

System.out.println("Total Deduction: ₱" + totalDeduction);

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("Net Pay: ₱" + netPay);

} else {

System.out.println("Invalid username or password. Please try again.");

}

} while (!loggedIn);

System.out.println("Logging out. Thankyou for inquiring!");

scanner.close();

}

private static boolean isValidLogin(String username, String password) {

return username.equals("admin") && password.equals("admin");

}

}