

The employee's payroll system

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- **Problem Statement**

Various problems arise in the payment of wages in factories. These problem include, incorrect calculation of salary, non-addition of addition and subtraction. As a result, employees do not receive accurate payroll reports. It also requires a many number of employees to calculate salaries. Therefore, the company has to incur high salary cost for them. These employees are also more likely to commit money laundering. There are various problems in filling out the personal information form of the employee. That is, sometimes these forms of employee are misplaced. The administrators were asked to create this program to avoid to all these problems.

- **Proposed Solution**

It was decided to create a payroll system as a solution to this problem. There are no cash fraud or deductions. Also here salaries are calculated correctly. It was suggested that the system be designed in such a way that only one person with a password and username can access it. It is hoped that this will streamline the process. It was suggested that the program be designed so that the user could enter and calculate information. Not only that, it was suggested that the system should be designed to include the personal information of a new employee.

- **What is the payroll system**

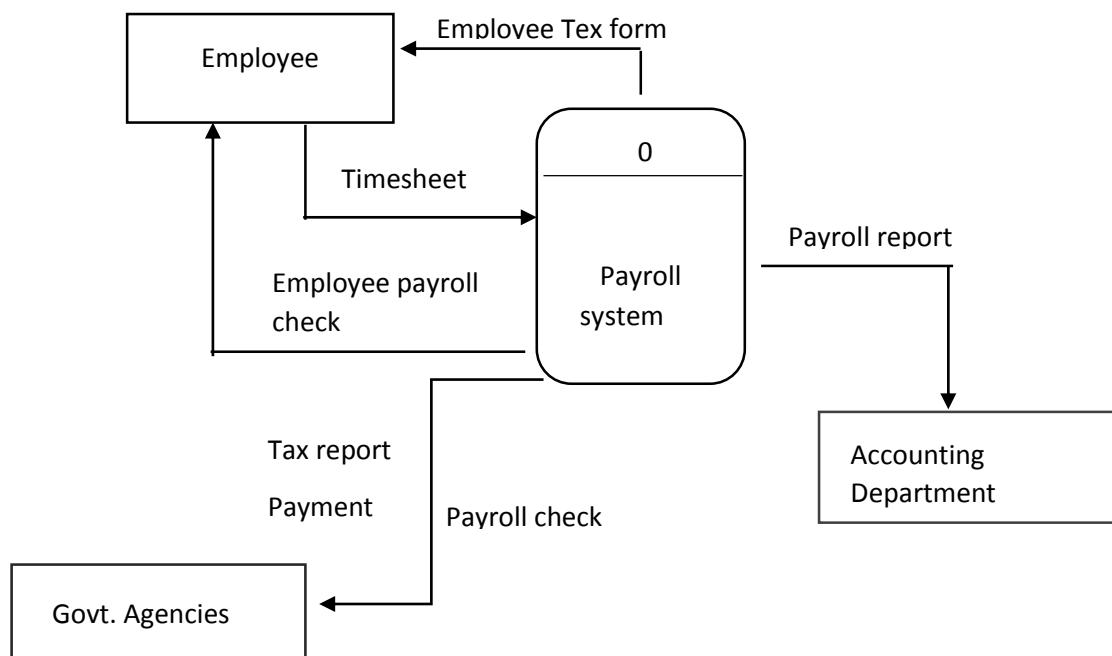
A payroll system involves everything that has to do with the payment of employees and the filing of employment taxes. This includes keeping track of hours, calculating wages, withholding taxes and other deductions, printing and delivering checks and paying employment taxes to the government. The payroll system starts when a company hires its first employee.

- Introduction

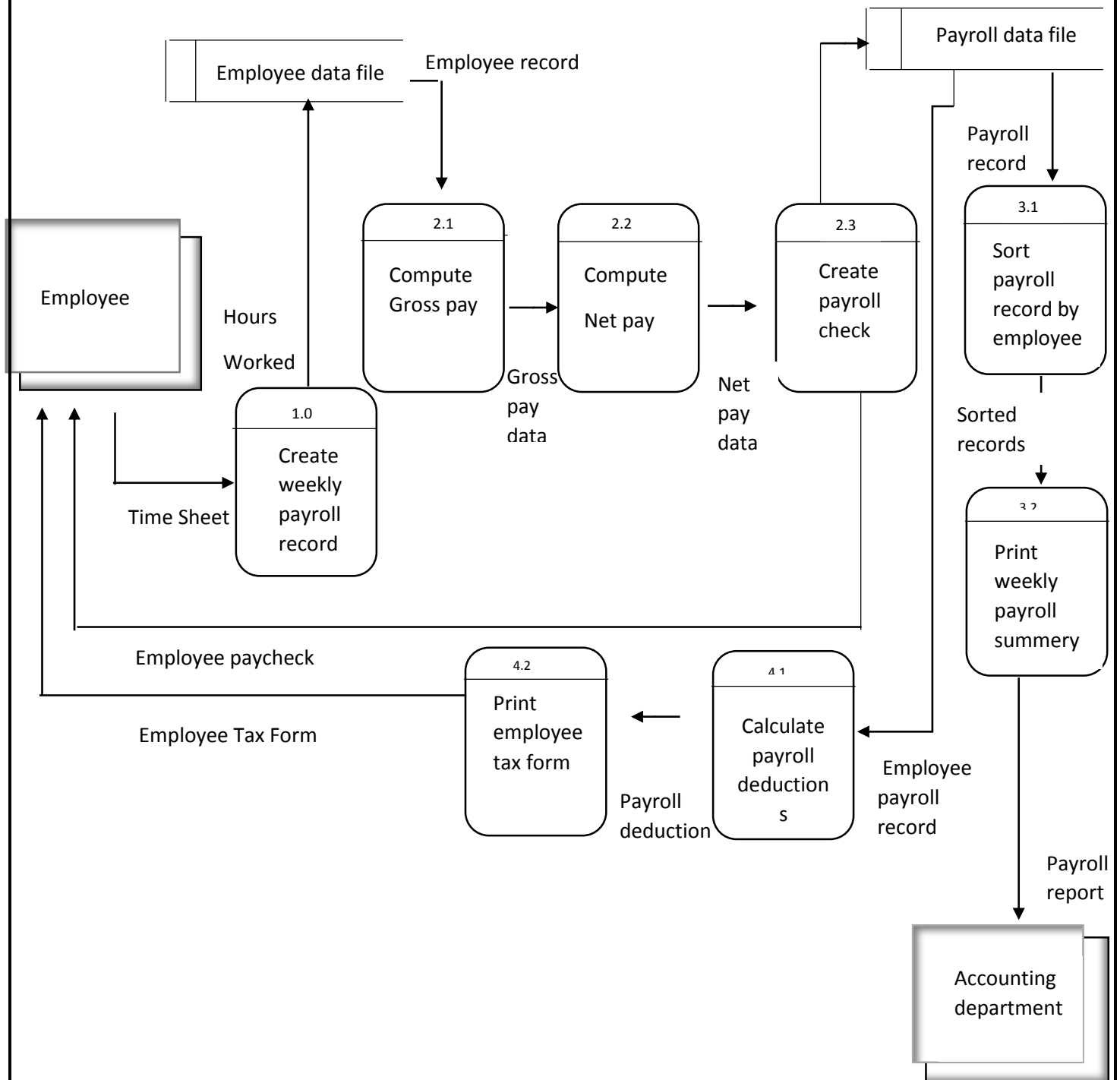
Here I intend to create a software suitable for paying the salaries of the employees of an organization. In this system, admin can add employee details to the system. Admin can view employee detail. It also has the ability to accurately calculate an employee's basic salary and final salary. That is, overtime and ETF, EPF are added to the employee's basic salary and the final salary balance is calculated accurately after deducting borrowings and taxes. This software can be controlled by the head of the officers. Here the user has to enter the Username and password login to the program. Also here the employee has the ability to check the accuracy of their salary reports. The main purpose of this software is to calculate the salary.

- Diagram

Context diagram



Data flow diagram



- **Functional requirements**

Keeping employee's records

All the information of the employees working in their department can be included here. It is also possible to store that information securely. Administrators may revise or edit that information if necessary. These records include:

1. Employee's full name, address and age
2. Gender
3. Total hours worked each workweek
4. Total overtime earnings for the workweek
5. Number of days worked per month

This software has the ability to collect a lot of data about such an employee.

Accurate calculation of employee salaries

The main expectation of this system is to accurately calculate the salary of employee. The salary is calculated by adding the overtime service and the number of days the employee has worked.

Payroll Integration

The integration feature of the Payroll Management System saves a lot of time and provides the utmost security by preventing any sort of data-stealing without any need for manual data entry. It decreases the risk of errors to a great extent.

Should be able to enter the details

The department head has the ability to enter all the information that employees need. This is very easy and efficient. Tasks such as entering new employee information and updating employee information are done directly through this software.

The employee's attendance should be noted

The employee's salary is calculated based on the number of days he arrives. Therefore the number of days the employee has arrived must be added here. The number of days attended should be multiplied by the daily wage to make the final salary.

- **Nun-Functional requirements**

Security

No one else can get employee's personal information. Only authorized personnel are allowed to access the backend management functions.

Availability

The system available for every work time.

Reliability

The system uses a MYSQL database which is available offline even during a system failure. Therefore, data loss is minimized.

Operability

User do not need special technical knowledge to use the system. Therefore, users can adjust to using the system within a very short period of time.

User friendliness

The user interfaces are designed in a user friendly manner to enhance the user experience.

- User Interfaces

Login system

Incorrect login

The image displays two windows from a login system. The top window, titled "Login User", contains two input fields: "User Name" with the text "admin" and "Password" with masked characters "*****". Below these fields are three buttons: "Login", "Reset", and "Exit". The bottom window is a smaller dialog box with a blue information icon and the text "Incorrect Username and Password". It has an "OK" button at the bottom right.

Correct Login

Login User

User Name:

Password:

Login Reset Exit

Login Success

OK

Payroll Management System

Employee's Payroll System

| | |
|---------------|---------------------------|
| Employee Name | J.G.D.D Maneesha |
| Address | wimasuma,waliwa ,Morawaka |
| Reference | PR632665 |
| Employer Name | Dinidi Maneesha |
| Age | 21 |

| | |
|----------------|-------------|
| City Weighting | 145 |
| Basic Salary | 8750 |
| Over Time | 75 |
| Gross Pay | Rs. 8970.00 |
| Net Pay | Rs. 5893.29 |

| | |
|--------------|-------------|
| Tax | Rs. 2691.00 |
| Pension | Rs. 179.40 |
| Student Loan | Rs. 107.64 |
| NI Payment | Rs. 98.67 |

| | |
|----------|------------|
| Phone No | 0763911405 |
| Gender | Female |

| | | |
|-------------------|-------------|--|
| Pay Date | 12/26/20 | Wage Payment Reset System Pay Reference Pay Code Add Exit |
| Tax Period | 12 | |
| NI Number | NI632665 | |
| NI Code | NICode1201 | |
| Taxable Pay | Rs. 2691.00 | |
| Pensionable Pay | Rs. 179.40 | |
| Other Payment Due | 0.00 | |

Data add

Payroll Management System

Employee's Payroll System

| | |
|---------------|---------------------------|
| Employee Name | J.G.D.D Maneesha |
| Address | wimasuma,waliwa ,Morawaka |
| Reference | PR632665 |
| Employer Name | Dinidi Maneesha |
| Age | 21 |

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| NI Payment | Rs. 98.67 |

| | |
|----------|------------|
| Phone No | 0763911405 |
| Gender | Female |

| | |
|-------------------|--------------|
| Pay Date | 12/26/20 |
| Tax Period | 12 |
| NI Number | NI632665 |
| NI Code | NI Code 1201 |
| Taxable Pay | Rs. 2691.00 |
| Pensionable Pay | Rs. 179.40 |
| Other Payment Due | 0.00 |

| |
|---------------|
| Wage Payment |
| Reset System |
| Pay Reference |
| Pay Code |
| Add |
| Exit |

added Success

OK

Database

| | id | EmployeeName | Address | Reference | EmployerName | Age | PhoneNo | Gender |
|----|----|--------------|----------|-----------|--------------|-----|------------|--------|
| 1 | 1 | dinu | wimasuma | PR438799 | dinidi | 25 | 07584254 | femle |
| 2 | 2 | dinu | wimasuma | PR438799 | dinidi | 25 | 07584254 | femle |
| 3 | 3 | amila | kotapola | PR611455 | manahara | 25 | 07654287 | male |
| 4 | 4 | | | | | | | |
| 5 | 5 | | | | | | | |
| 6 | 6 | | | PR64929 | | | | |
| 7 | 7 | | | PR64929 | | | | |
| 8 | 8 | dinu | womasuma | PR54842 | dinidi | 24 | 0175435221 | female |
| 9 | 9 | hiru | wimasuma | | hhhh | | | |
| 10 | 10 | pawani | | | | | | |
| 11 | 11 | ruwini | morawaka | PR393821 | w.pawami | 45 | 07145754 | female |
| 12 | 12 | ruwini | | | | | | |
| 13 | 13 | | | | | | | |
| 14 | 14 | | | | | | | |
| 15 | 15 | | | | | | | |
| 16 | 16 | | | | | | | |
| 17 | 17 | | | | | | | |
| 18 | 18 | | | | | | | |
| 19 | 19 | | | | | | | |
| 20 | 20 | | | | | | | |

- Errors

Syntax errors

Syntax is the spelling and grammar of a programming language. Programming languages have rules for spelling, punctuation and grammar, just like the English language. In programming, a syntax error occurs when.

Logic errors

The errors that occur during the construction of the argument for this calculation are called basic salary, OT, and net salary. Various problems arise in the construction of the argument for this.

Run time errors

If the rules of the syntax are broken, then the compiler complains and throws a syntax error. In the same vein, all of the programming code that is written must be translated and compiled into something the computer can understand. If there are errors in that process, the compiler complains and throws a compiler error. These errors are given types, numbers, and brief English explanations.

Resource errors

In some cases, the program did not run due to a lack of resources during the creation of this program. The program did not run due to a lack of resources during the creation of the program. For example, the resources needed to create the interface may not have been imported.

- **Problem encountered**

The main problem here is that we do not have the knowledge to build this system.

Another problem is that we don't have the facilities to create this program.

At that moment It had to get the professional version of pycharm. There was a problem getting the license for this account.

Sometimes the program does not run, which is also here.

Inability to fix it at the arrival of errors