SOFTWARE REQUIREMENT SPECIFICATIONS

PayRoll Management System

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1.Introduction

Payroll Management System is the administration of the financial record of employees' salaries, wages, bonuses, net pay, and deductions. Nowadays this kind of application is very essential for any small or medium sized organization.The company has to take care of the calculation and of salary as per rules of the company, income tax calculation and various deductions to be done from the salary including statutory deductions like Income tax and Provident fund deductions. An employer, regardless of the number of workers they employ, must maintain all records pertaining to the payment system digitally. With this system it is very easy to organize the whole employee details and their basic salary, conveyance allowance, automatically adjust the overload and subsequently generate complex reports from this information. So this SRS report is a case study for system analysis of Payroll System, and the study is a clear comprehensive view about this system, and how we can design a system for this Payroll.

1.1 Objective

Main aim of developing Employee Payroll Management is to provide an easy way to keep track of the employee details and to generate their pay salary slip. It should also be able to keep track of the overtime hours they have worked and generate salary slip considering this and also considering allowances like festival allowance, house rent allowance etc. Also the employee data can be kept up to date as there is provision for modifying the details by both admin and employee.

Payroll Application has been designed for the purpose of maintaining 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.

1.2 Scope

This application works in multiple PCs with files storing the employee details. With this Payroll Management System it is very easy to organize the whole employee details and their basic salary, conveyance allowance, automatically adjust the overload and subsequently generate complex reports from this information.

1.3 Benefits

☐ To improve the efficiency.
☐ Quickly find out information about an employee details.
☐ To provide easy and faster access information.
☐ To provide a user friendly environment.
☐ Generate Pay-Slip for all employees at the convenience of a mouse click.
☐ Maintain Allowances (conveyance, festival), deductions, overloads details for the employees.
☐ Manage increment of the employees automatically.
☐ Prepare the detailed salary record of all the employees in an organization.

1.4 Project Review

The following subsections provide the complete overview of the software specifications requirements documentation for the product Employee Payroll Management. The entire SRS is documented in view of User and the following subsections are arranged to give a complete outlook of the software, its perspective, features, system requirements and users know how it is.

2. Literature survey

Payroll management is a very common task for any business which has a number of employees. Though the method differs from organization to organization. Earlier used pen and paper based systems are much time consuming and there is a great chance to

make mistakes as there are a very good number of employees in this organization and keeping patience is a tough job to manipulate so many things.

Unauthorized persons however, easily accessed the paper system and hence made it impossible to keep secrecy and confidentiality. So such a system is time consuming, prone to errors of entry and analysis resulting from the fatigue of the users.

Now if we view the system from the other employees' (who are the end user of the system) point of view, then the system is also monotonous. Because if one employee wants to check his/her statistics of the salary record then it is very difficult to get it without any help from an automated system. So, it is obvious to migrate the whole

process in an automated way so that it helps the authority and user to maintain all the things with ease.

Employee Payroll Management is to provide an easy way to keep track of the employee details and to generate their pay salary slip. It should also be able to keep track of the overtime hours they have worked and generate salary slip considering this and also considering allowances like festival allowance, house rent allowance etc. Also the employee data can be kept up to date as there is provision for modifying the details by both admin and employee.

3. Requirements

3.1 Functional Requirements

3.1.1 Administrator
This module mainly aims at managing employee details.The administrator can login to the system and do functions like adding the employee details, deleting the employee details, modifying the details already entered and searching for an employee detail.The administrator adds the basic pay of an employee based on the designation and also the number of hours worked in a month which helps auditor for generating salary slip.

3.1.2 Employee
The employee can login to the system with the username and password. He/She External interface requirements are able to view their profile and can edit basic details if there is any change needed in it. Also the employee has the provision to view the salary slip.

3.1.3 Auditor

The auditor can login to the system with the given username and password and can exit from the system. The auditor is responsible for managing the salary slip. Auditor decides whether the allowances like festival allowance, house rent allowance need to be added to the basic pay. The auditor can also view the employee details.

3.2 External interface requirements

3.2.1 User interfaces

The user interface is simple and easy to interact.

3.2.2 Hardware interfaces

• Memory minimum of 4GB RAM

• Hard disk of 40 GB

• Monitor

 Mouse

• Keyboard

• Printer

3.2.3 Software interfaces

• Operating System Ubuntu

• Programming language C

• Database Files

3.3 Other Requirements

The system must be developed to suit the particular needs of a user-friendly environment. This means that the system must accommodate a clearly understandable user interface as well as clear online help documentation at any stage of the user interaction with the system. A fast response time in obtaining and providing information to the system may also prove to be a significant advantage. In addition to these requirements, the system should also embrace the following requirements:

Security: Each user is required to log in. The system should log staff that has been assigned user names and passwords. The system should be designed to make it impossible for anybody to logon without a valid username and password.

4. Design and Implementation

This software is developed specifically to cater the company employees salary management and storing their details. It provides a simple database that uses files for storing rather than complex ones for high requirements and it provides a good and easy graphical user interface to both new as well as experienced users of the computer.

4.1 Product Functions

4.1.4 Administrator Module

- Login and Exiting
- Adding Employee Details
- Deleting Employee Details
- Modifying Employee Details
- Searching an employee
- Adding basic pay

4.1.2 Employee Module

- Login and Exit
- View his/her profile
- View salary slip
- Edit his/her details

4.1.3 Auditor Module

- Login and Exit
- Generate salary slip
- Search an employee
- Decide on allowance
- Decide on deductions

4.2 User Characteristics

4.2.1 End Users

- No specific knowledge or skills are required from the end user.
- End user should have basic ideas about computer operations and databases.

4.2.2 Administrator

- Administrator must have good knowledge of the database management system.
- Administrator must be capable of managing user rights.
- If the network connection does not work properly then our system should not work as intended.
- Admin can add, delete, manage employee details.
- Admin adds the basic pay and working hours of an employee.

4.2.3 Employee

- Employees can login to the system using the registered username and password and exit from the system.
- They can also view their profile details and can view the salaryslip generated.

4.2.4 Auditor

- Auditor can login to the system using registered username and password.
- They also have the privilege to view employee details.
- Auditor is responsible for generating and managing salary slip by considering allowances and deductions.
- They can also view the generated salary slip**.**

4.3 Assumptions and Dependencies

Assumptions:

• The code should be free with compilation errors/syntax errors.

• The product must have an interface which is simple enough to understand.

Dependencies:

• All necessary hardware and software are available for implementing and use of the tool.

• The proposed system would be designed, developed and implemented based on the software requirements specifications document.

• End users should have basic knowledge of computers.

4.4 Design Constraints

• The system runs under Ubuntu.

• The application is developed by C programming file management.

4.5 Attributes

4.5.1 Reliability

In order to ensure reliability, this system is being designed using software that is established to be stable and easy to use.

4.5.2 Availability

This system is designed to run 24/7 and be readily available to the user.

4.5.3 Security

The access to the software is given only to valid operators. We need a specific username and password to get access to the software.