Payroll Management System

GR_7

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Trello Link For User Stories:-

https://trello.com/b/jhUf9Eb9/payroll-management-system

1.**Category**:Website

2.**Purpose**:

The purpose of developing "Payroll Management System" is to provide an automated means for managing the payroll of employees throughout their journey with the company. It is designed and developed to facilitate easy, fast and accurate processing and disbursements of payments.

3.**Scope**:

The project describes how to manage user data for good performance and provide better services for the client.It will allow the admin to review the logs of employees and users to view their payroll report.It will not only automate the process but save the valuable time of the admin.

4.**Introduction**:

This software is built to eliminate the hardships faced by the existing system where manual input process may cause lots of errors. Also maintaining manual logs is tedious and inefficient for medium to large sized businesses. Therefore, we have designed an automated model for faster and more accurate processing.

This website takes into account the complete span of payments that an employee receives throughout her tenure including leave management, PFs,

federal and non-federal deductions, along with perks and bonuses bestowed. It is user-friendly as no formal knowledge is required to use the system.

5.Advantages:

- It saves time as it speeds up every aspect of the employee database management and payroll process with a range of automated features.
- It is secure as the employee database and the payroll process is managed by the admin in house rather than sending private information to a third party.
- The calculations are automated so no chance of error.
- The software is easy to use and is user friendly so no expertise is required.

6.Disadvantages:

- It requires an internet connection to function.
- A technical glitch might occur which could be difficult to detect and resolve without expert intervention.
- The model will require explicit technical support to incorporate a sudden policy change of the company.
- There is a requirement for a large storage amount which may increase with expansion of the firm and may come costly.
- The risk associated is to keep the sensitive information protected. A sudden loss of valuable information may occur due to mishandling of the system.

7. Functional Requirements of the System :

- Users must have valid User ID and password to login thus creating their individual profiles
- An administrator can add or remove an employee from the database.
- Administrator can add new department
- Administrator can update an employee's data such as address or department or grade
- Administrator will be able to get each employee's net pay so that he can make transaction to their bank account

- The administrator will be able to see the check-in and check-out time of his employees.
- The administrator can mark the presence/absence of an employee on the software itself to keep track of leaves taken.
- An employee would be able to check his/her basic,gross and net pay on the software.
- Employees will also be able to see the amount provided through allowances and tax deductions involved.
- Employees will be able to generate a data report with payroll hours, rate and total pay net for him/her.
- Employee will be able to generate a data report with all legal (taxes) and non-legal deductions(performance-based and leaves)
- Employees will be able to generate a data report with budget amount, debits, monthly and yearly costs about employee payments.
- Employees will be able to apply for leave through the software.
- Administrators will be able to grant/reject the leave permission.

8.**Non-Functional Requirements of the System** :
- Secure access of confidential data (user's details).
- Maximum time availability
- Better component design to get efficiency at peak time.
- Flexible service based architecture will be highly desirable for future extension.
- Employee and department registration facility is accessible by administrator only.

9.**Software Tools**:
- Database Server: MySQL,PostgreSQL
- Client: Microsoft Internet Explorer or any web browser
- Development Tools: Sublime Text,Microsoft Visual Studio
- Frontend languages: HTML,CSS,JS
- Frontend framework:React
- Backend language:Node.js

10.**Hardware Specifications:**
- Processor: Intel core i5
- RAM: 4GB
- Hard Disk: 1TB

11.**Deployment**:
- OS: Windows, Linux,MacOS