**Payroll Management System (PMS)**

**Objective** - PMS main objective is to calculate and generate payslip of each employee present in the organization.

**List of the data to be considered –** For PMS we need the below main details.

1. Employee Personal Details (EmpPersonalDetails)
2. Employee Bank Details (EmpBankDetails)
3. Employee Records (EmpRecords)
4. Employee Salary Details (EmpSalDetails)
5. **EmpPersonalDetails** – Below details are considered under this category.

|  |  |
| --- | --- |
| 1. Employee ID | 6. PAN |
| 2. Employee Name | 7. AADHAR Number |
| 3. Designation | 8. PF Number |
| 4. Gender | 9. UAN |
| 5. Date of Joining | 10. Phone |

1. **EmpBankDetails** – Below details are considered under this category.

|  |  |
| --- | --- |
| 1. Employee ID | 4. IFSC |
| 2. Bank Name | 5. Branch |
| 3. Account Number | 6. City |

1. **EmpRecords** – Below details are considered under this category.

|  |  |
| --- | --- |
| 1. Employee ID | 4. Password |
| 2. Employee Name | 5. Is Active |
| 3. EmpType |  |

1. **EmpSalDetails** – Below details are considered under this category.

|  |  |
| --- | --- |
| 1. Employee ID | 8. Provident Fund |
| 2. Employee Name | 9. Professional Tax |
| 3. Salary Month | 10. Loss of Pay |
| 4. Basic Salary | 11. Income Tax |
| 5. House Rent Allowance | 12. Total Deductions (8+9+10+11) |
| 6. Special Allowance | 13. Total Payout – (7-12) |
| 7. Total Earnings (4+5+6) |  |

**Database Tables Required –** Below tables are required for marinating PMS project.

Table1 - **EmpRecords**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EmpId**  (int) | **EmpName**  (string) | **EmpType**  (string) | **Password**  (string) | **IsActive**  (string/bool) |
| 1001 | ABCD | Admin | Password | Yes |
| 1002 | EFGH | HR | Password | Yes |
| 1003 | IJKL | Employee | Password | Yes |

Table2 - **EmpPersonalDetails**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EmpId**  (int) | **EmpName**  (string) | **Designation**  (string) | **Gender**  (string) | **DOJ**  (date) | **PAN**  (string) | **Aadhar**  (string) | **PF**  (string) | **UAN**  (string) | **Phone**  (string) |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Table3- **EmpBankDetails**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Empid**  (int) | **BankName**  (string) | **AccNo**  (string) | **IFSC**  (string) | **Branch**  (string) | **City**  (string) |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Table4**-** **EmpSalDetails**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EmpId**  (int) | **EmpName**  (string) | **SalMonth**  (string) | **BasicSal**  (float) | **HRA**  (float) | **SplAllow**  (float) | **TotEar**  (float) | **PF**  (float) | **ProfTax**  (float) | **LOP**  (float) | **IncomeTax**  (float) | **TotDed**  (float) | **TotPay**  (float) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

**Actors/Users –**

PMS is mainly accessed by 3 users (actors).

1. Admin – Admin is responsible to handle the tables **EmpRecords** and **EmpPersonalDetails**. Admin updates the records as and when any new employee joins the organization. He will give default password to the employee to access the payroll. He/she can also access his/her payslips like normal employees.
2. HR – HR is responsible to handle **EmpSalDetails.**  HR updates each employee’s salary details per month. He/she can also access his/her payslips like normal employees.
3. Normal Employee – Normal employee is responsible to update his bank details in **EmpBankDetails.** He/she can access their payslips.