Day 1 – Requirement Understanding & Detailing

1. Objective

To develop a basic and secure **Employee Payroll Management System** with the ability to:

- Add and manage employee details (Admin only)
- Calculate salary based on a fixed tax deduction
- Generate salary slips
- Allow employees to view their own profile and salary slip

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2. User Roles

Admin: Full access – add, view, update, delete employees, calculate salary, generate salary slips

Employee: Limited access – view only their profile and salary slip

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3. Core Functional Requirements

A. Authentication

- Login for Admin and Employees
- Secure login with encrypted passwords

B. Employee Management (Admin Only)

- Add new employees
- Edit existing employees
- Delete employees
- View all employee details

Employee Fields:

- ID (auto-generated)
- Name
- Email
- Mobile Number
- Designation
- Basic Salary

C. Salary Calculation

- Gross Salary = Basic Salary
- Tax Deduction = 10% of Basic Salary
- Net Salary = Gross Salary - Tax Deduction

D. Salary Slip (Admin Generates, Employee Views)

- Fields:
    - Employee ID
    - Name
    - Designation
    - Basic Salary
    - Tax Deduction
    - Net Salary
- Format: Display on screen + PDF

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4. Assumptions

- Only two user types: **Admin** and **Employee**
- Fixed tax rate of **10%**
- Admin is the only user who can create employee records
- Employees cannot edit or delete anything
- Salary slip is calculated and stored monthly

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5. Identified Modules

Login	For both Admin and Employee
Employee Management	Admin: Add/Edit/Delete Employee
Salary Calculator	Admin calculates based on basic salary
Salary Slip Viewer	Admin generates, Employee views their slip

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How the System Works – Complete Flow Overview

1. User Roles

- **Admin**:
    - Manages all employee records
    - Calculates and updates salary
    - Generates salary slips
- **Employee**:
    - Logs in to view their own profile and salary slip

Step-by-Step Workflow

Step 1: Login

- Both Admin and Employees must log in.
- The system checks credentials and assigns access based on role.

Step 2: Employee Creation (By Admin)

When the admin wants to add a new employee:

- Go to **"Add Employee"** form.
- Enter:
    - Name, Email, Phone, Designation, Basic Salary
- On form submit:
    - The system saves the employee data in the **Employee table**.

Important:

- At this point, only **basic salary** is entered.
- **Salary is NOT calculated yet** – that happens separately.

Step 3: Salary Calculation (By Admin)

Admin goes to **"Calculate Salary"** section:

- Select an employee

- System automatically does:
  - **Gross Salary** = Basic Salary
  - **Tax (10%)** = Basic Salary * 0.10
  - **Net Salary** = Basic Salary - Tax

- **Stored in a separate "Salary" table** (per month)

Step 4: Generate Salary Slip (By Admin)

Admin clicks **"Generate Slip"**:

- For a selected employee, and optionally for a selected month
- The system uses salary data to generate a formatted slip:
  - Employee ID
  - Name
  - Designation
  - Basic Salary
  - Tax Deduction
  - Net Salary
  - Date of Slip
- Can be downloaded as **PDF**.

Slip is saved in the **Salary_Slip table**.

Step 5: Employee Views Profile & Salary Slip

Once logged in:

- Employee can view:
  - Their own **personal details**
  - Their **latest salary slip(s)**

Database Tables

1. users (for login)

| id | email | password | role (admin/employee) |

2. employees

| id | name | email | phone | designation | basic_salary |

3. salary_slips

| id | employee_id | gross_salary | tax_deduction | net_salary | generated_on |

Deliverable for Day 1

A clear and simple list of:

- Features to develop
- Roles and their permissions
- Assumptions to guide development
- Entity fields and modules