

CSA1101

System Analysis, Design, and Prototyping

Deliverable 4

Data Flow Diagram (Context Diagram and Diagram 0)

Payroll Management System

AREVALO, Ma. Dhanicka Daniela

CACNIO, Paulhan Raphael

DEL ROSARIO, Pia Marie

ESPINOSA, Maureen

PASCUA, Kier Jerymie

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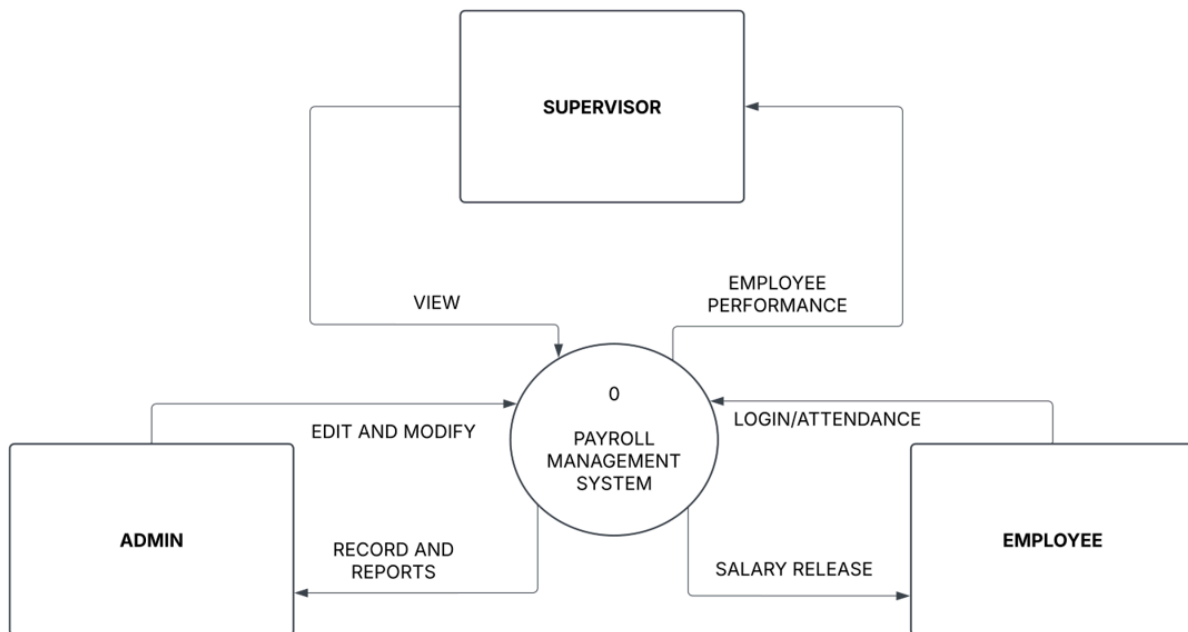


Figure 1: Diagram 0

Detailed Payroll Management System Breakdown

1. Login & Authentication (Process 1.0)
 - Employees and Admin login to access the system.
 - System verifies user credentials and records login time.
2. Attendance & Work Hours Tracking (Process 2.0)
 - Employees clock in and out.
 - System calculates total work hours.
3. Payroll Processing (Process 3.0)
 - Salary computation based on attendance, deductions, and bonuses.
 - Tax and benefit deductions are applied.
4. Salary Release (Process 4.0)
 - Approved payroll is sent for salary disbursement.
 - Employees receive payment notifications.
5. Reports & Record Keeping (Process 5.0)
 - Generates payroll reports.
 - Stores salary history for future reference.

Short Discussion: Diagram 0 expands the Payroll Management System into five core processes, detailing how payroll data is collected, calculated, processed, and stored. This breakdown ensures smooth salary computation and accurate employee compensation tracking.