PAYROLL MANAGEMENT SYSTEM

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INTRODUCTION
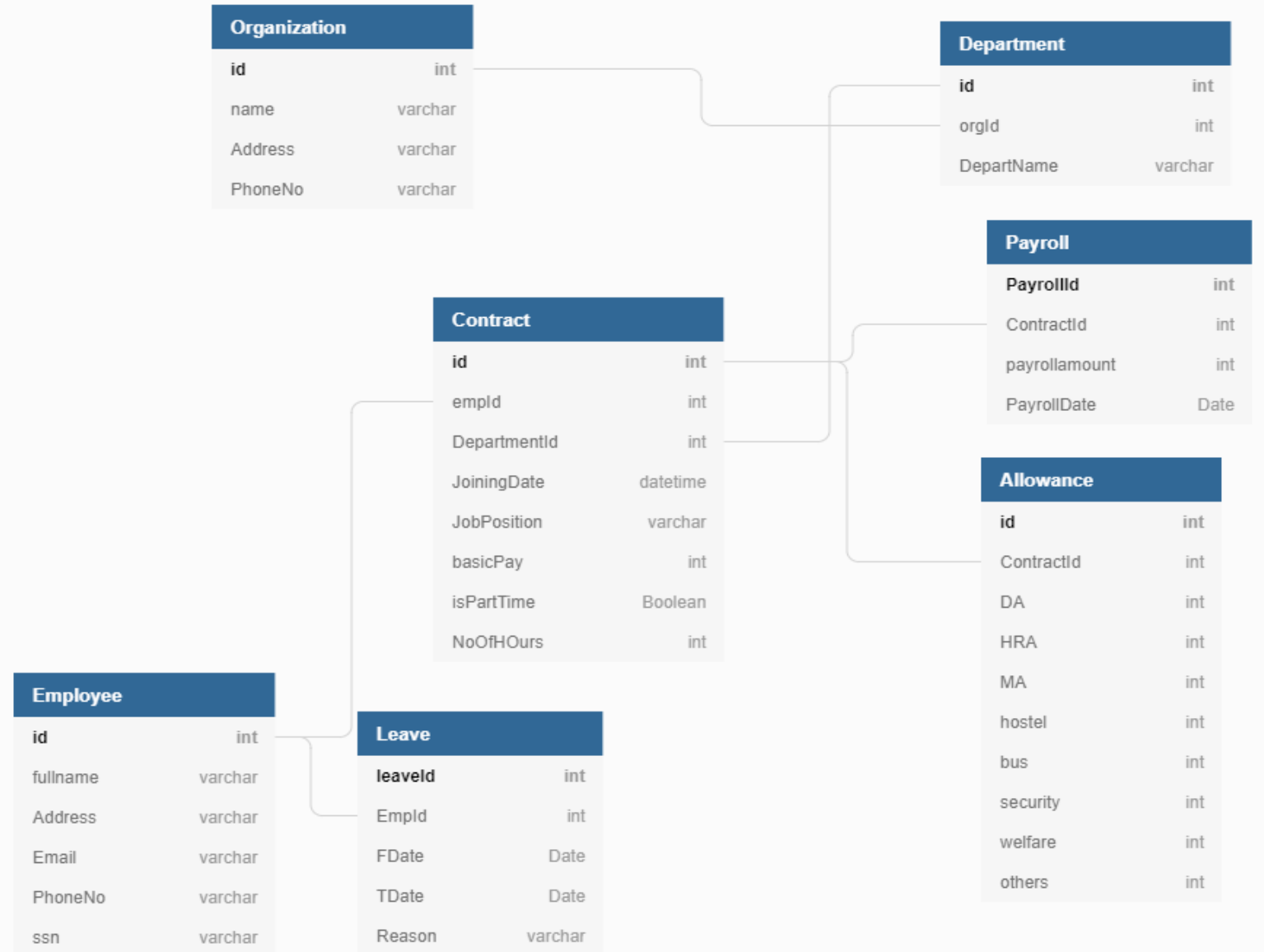
PAYROLL MANAGEMENT SYSTEM:

Keeps track of employees' salary, wages, bonuses, net pay, and deductions in financial records.
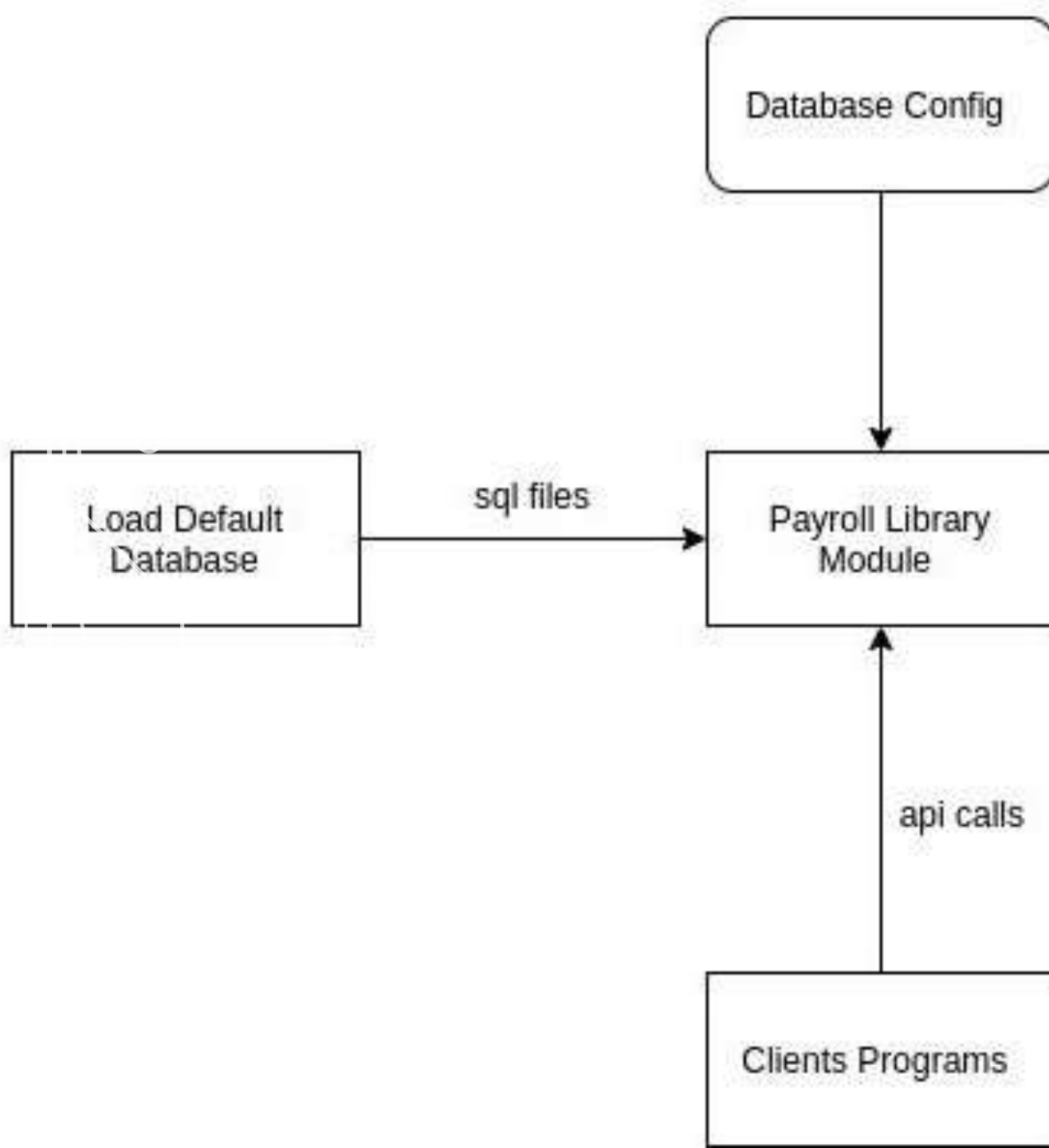
Maintains employee information and ensures the integrity and security of the employee data.

Keeps track of the number of leaves taken by the employee.

ER - MODEL

❖ Organization to department - one-to-one relationship.

❖ Employee to contract - one-to-one

❖ Employee to leave – one-to-one.

❖ Contract to department, payroll and allowance – one-to-many.

Organization

id	int
name	varchar
Address	varchar
PhoneNo	varchar

Department

id	int
orgId	int
DepartName	varchar

Payroll

PayrollId	int
ContractId	int
payrollamount	int
PayrollDate	Date

Contract

id	int
empId	int
DepartmentId	int
JoiningDate	datetime
JobPosition	varchar
basicPay	int
isPartTime	Boolean
NoOfHOurs	int

Allowance

id	int
ContractId	int
DA	int
HRA	int
MA	int
hostel	int
bus	int
security	int
welfare	int
others	int

Employee

id	int
fullname	varchar
Address	varchar
Email	varchar
PhoneNo	varchar
ssn	varchar

Leave

leaveId	int
EmpId	int
FDate	Date
TDate	Date
Reason	varchar

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PROJECT ARCHITECTURE

PROJECT DEPENDENCIES

Methods Initial	Methods Objective
getOrganizations	To show the organizations table we used the method
getEmployees	To show the Employee_details table we used the method
getEmployeesInOrg	This method will show us the department name of the employee of the organizations for this one we are taking org_id as input
getDepartments	This will show us the department using org_id as input
getLeaves	By providing emp_id as input this Method will show us how many leaves taken by an employee
getLeaveDays	This method will show the sum of leaves taken by an employee using input as emp_id
searchEmployeeByName	We can search for any employee and their id by using CONCAT function and input is employee name
searchOrganizationByName	To search of an organization and their id using CONCAT and input will is Organization name
insertEmployee	We can insert new data into employee_details table using this method Here our query = "INSERT INTO `Employee_details` (ssn,full_name,Address,Email,PhoneNo) VALUES (%s,%s,%s,%s,%s)"
insertOrganization	We can insert new data into Organization table using this method
insertDepartment	We can insert new data into Department table using this method
applyForLeave	To update leaves table, we will use this method query = "INSERT INTO `leaves` (`emp_id`, `From_Date`, `To_Date`) VALUES (%s,%s,%s);"
hireEmployee	This method we are using to hire employees
generatePayROll	To generate a payroll searching by employee id we will get the total payroll of an employee by using the following method the output will be emp_id,contarct_id and total amount

METHODS FROM LIBRARIES

DEMO

LIMITATIONS:

We won't be considering any paid leaves.

In order to add more features, the end user has to edit the payroll module.