

Object Oriented Analysis

Attributes:

- **Employee**
 - Name
 - Department
 - Hours worked
 - Overtime hours
 - Payment rates
 - Total payment
- **Department**
 - Name
 - Hourly rates
 - Overtime rate
- **Payroll System**
 - Employee data
 - Department rates
 - Calculation logic for payments
 - Payroll reports

Methods/Functions:

- CalculatePayment
 - Calculates the payment for an employee based on their hours worked and department rates.
- CalculateOvertime
 - Calculates the overtime payment for an employee exceeding 40 hours.
- GeneratePayrollReport()
 - Creates a report summarizing payments for all employees within a given period.
- UpdateEmployeeData
 - Updates employee information in the system (e.g., name, department, hours worked).
- UpdateDepartmentRates
 - Updates the hourly rates and overtime rates for a specific department.
- AddNewEmployee
 - Adds a new employee to the system with the necessary details.
- RemoveEmployee(employeeID)
 - Removes an employee from the system based on their ID.
- CalculateTotalPayments
 - Calculates the total payments for a list of employees.