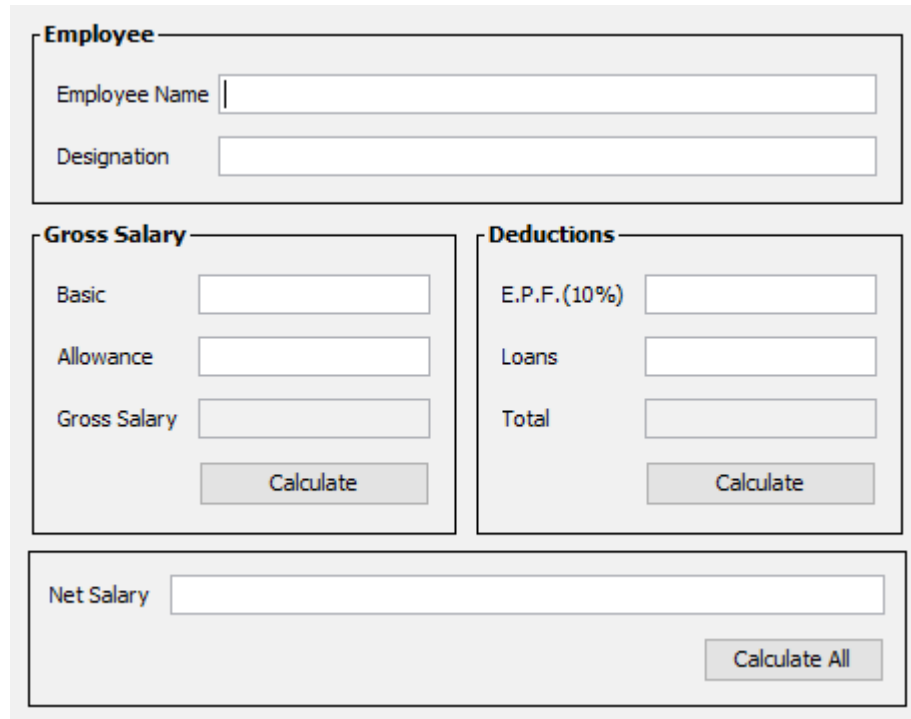


Rapid Application Development

Practical Exercise - 02

The ABC Company is planning to implement a **Java application** for the following functionalities. The application allows user to calculate salary of an employee.



The interface is a web form for calculating an employee's salary. It is divided into several sections:

- Employee**: Contains two input fields, "Employee Name" and "Designation".
- Gross Salary**: Contains three input fields labeled "Basic", "Allowance", and "Gross Salary". Below these fields is a "Calculate" button.
- Deductions**: Contains three input fields labeled "E.P.F.(10%)", "Loans", and "Total". Below these fields is a "Calculate" button.
- Net Salary**: A large input field at the bottom, with a "Calculate All" button to its right.

Figure 1: Employee's Salary Calculation Interface

The functionalities of the GUI are as follows,

1. "Calculate" button under "Gross Salary" section should calculate the gross salary and display the amount in front of "Gross Salary" label. Use the following function for the gross salary calculation.

$$\text{Gross Salary} = \text{Basic Salary} + \text{Allowance}$$

2. "Calculate" button under "Deductions" section should calculate the total deduction and display the amount in front of "Total" label. Use the following functions for the total deduction and EPF calculation.

$$\text{EPF} = \text{Basic Salary} * 10 / 100$$

$$\text{Total Deductions} = \text{EPF} + \text{Loans}$$

3. “Calculate All” button should calculate the net salary and show the amount in front of “Net Salary” label.
4. Once user clicks on the “Calculate All” button, it should perform both gross salary calculation and deductions calculation and show the values in front of the relevant label.
5. Use following functions for the net salary calculation.

$$\text{Net Salary} = \text{Gross Salary} - \text{Total Deductions}$$