**Employee Management Application**

**Components:**

**1: The Staff**

The staff class will store the list of employees with the ability to add/edit and delete employees. There is a count value that returns the number of employees. Also there is a search function to look up on any data and return the matched users if found. A show all function returns all users in suitable format. The callPayroll function should return the total amount of payment for all employees in the list.

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**2: The Staff Member/Department**

The staff member class is the base class and has the following attributes: id, name, phone, email. The staff should include a print to print staff information and pay function to calculate the payroll. The staff member belongs to a department. The department class contains the id, and department name.

**3: The Employee**

The employee class is a staff member with the social security number and print function.

**4: The Volunteer**

The volunteer class is a staff member with an amount of value.

**5: The Hourly/Salaried/Commission and Executive Employee**

The Hourly/Salaried/Commission and Executive class is an Employee with different attributes and a new equation for payroll function. The following table shows the payroll equation. The print function should customize the output based on employee type.

|  |  |
| --- | --- |
| Class | Calculate Payroll |
| Hourly Employee | rate\*hours |
| Salary Employee | salary |
| Executive Employee | salary+bonus |
| Commission Employee | 5% \* target |

**6: Project**

The project class contains the following attributes: id. Location, currentCost, and manager. The manager is an employee. The project is composed of a list of budgets and we can calculate the total budget. The print function should print project details with a list of all budgets.

**7: Budget**

The budget class contains the attribute value, id of budget and the increaseBudget function to increase the budget value.

**8: Demo**

The main function should follow the following minimum menu:

1.Department

1. Add New Department

-> Enter department details: ..........

2. Print All Department

2. Staff

1. Add New Members

-> Enter member details: ..........

-> Enter member type: ......

-> Enter department id: ...

2. Print All Members

3. Calculate Payroll

4. Delete Member:

-> Enter member id: ......

3. Project

1. Add New Project

-> Enter project details: ..........

-> Enter manager :.....

2. Print All Projects

3. Add Budget to Existing Project

-> Project Id: ............

-> Budget Value: ........

4. Increase Budget to Existing Project

-> Project Id: ............

-> Budget Id: ........

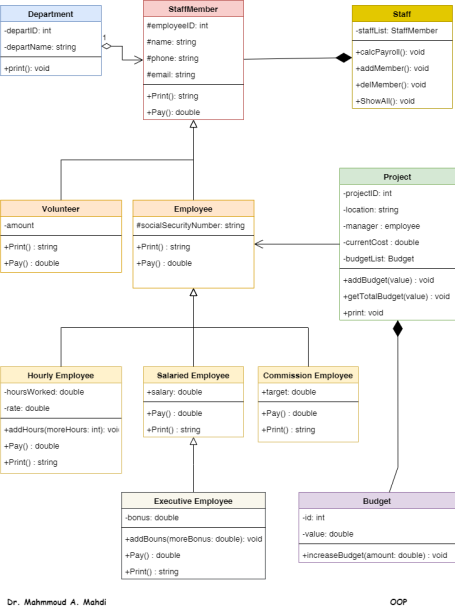
-> Budget adds value: ….

NOTE:

Add all requirement functions you may need such as get/set or other.

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**Starter Class Diagram**

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