COMPANY MANAGEMENT SYSTEM

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Strategy/Approach to Company Management System:

To begin with this individual project, I first noted down my strategy and requirement about what actions are needed as part of Company Managing System. And after having the clarity about my requirement, I created an abstract class Employee which will initialize the employee's basic details such as employee id, name, age, and department along with an abstract method of calculating annual salary which is implemented in the child classes. Since different employees can have different roles, thus I decided that each child class should have their own method of calculating the annual salary of the employee.

To store the employee's information in the company, I created a database with an empty "Company" table on which the user can later perform various CRUD operations.

For this, an action menu is provided to the user containing multiple features like:

1.) Hire an employee (to add new rows in the table)
2.) Raise the salary of a specific employee (to update a specific row in the table)
3.) Fire an employee (to delete a row from the table)
4.) View the Company's employee details
5.) Exit the program

The above features interact with the database and queries it to perform the chosen action and returns the desired output to the user.

As I am new to Python, it was sometimes challenging to think of the correct logic, for example, developing the correct flow of the program required multiple rough attempts but writing down the features which I wanted to have in this program and imagining the desired output helped me to go ahead step-by-step.

Also, implementing my understanding which I gained while working on the previous in class exercises as well as home-work assignments, helped me to have the practical experience of the various concepts of Python. I felt that developing this project helped me to challenge myself and enhanced my confidence of coding in Python.