Class Diagram

The class diagram above illustrates the relationships between the classes in the system. The CompanyGoals class represents the company's goals, which are created and updated by the Employee class. The Manager class sets company goals and approves employee goals. The Goal class represents individual goals set by employees, which are approved by managers. The Competency class represents the competencies of employees, which are assigned by the employees themselves. The Feedback class represents feedback given and received by employees and managers. The WorkPlan class represents the work schedule and tasks organized by employees.

Class Definitions

- CompanyGoals: Represents the company's goals, including the goal name, success criteria, and duration. It has methods to create and update goals.

- Employee: Represents an employee, including their name, position, individual goals, and competencies. It has methods to set goals, receive feedback, and give feedback.

- Manager: Represents a manager, including their name and position. It has methods to set company goals and approve employee goals.

- Goal: Represents an individual goal set by an employee, including the goal name, success criteria, and contributions. It has methods to create and approve goals.

- Competency: Represents the competencies of an employee, including the competency name and level. It has a method to assign competencies.

- Feedback: Represents feedback given and received by employees and managers, including the feedback text, date, sender, and receiver. It has methods to write and read feedback.

- WorkPlan: Represents the work schedule and tasks organized by employees, including the task name, start date, and end date. It has methods to add tasks and create work plans.

Relationships

- Employee has one or more Goals, which represent the individual goals set by the employee.

- `Manager` approves one or more `Goal`s set by employees.

- `Manager` gives and receives feedback from one or more `Feedback` objects.

- `Employee` gives and receives feedback from one or more `Feedback` objects.

- `Employee` has one or more `Competency` objects, which represent the competencies of the employee.

- `Employee` organizes tasks in one or more `WorkPlan` objects, which represent the work schedule and tasks.

The class diagram provides an overview of the system's structure and relationships between the main classes involved in the goal-setting and feedback process. It helps visualize how the classes interact and collaborate to achieve the system's functionality.