

# Entity

Responsibilities

- Defines abstract methods for classes that implement this interface.
- To break the dependency of AccountManager on User
  - Designed with Dependency Inversion Principle

Collaborators

## User

### Responsibilities

- Stores the name, id, account information, password, address, phone number of the employee
- Getters for everything above
- Setters for everything above
- Equals based on the id of the user
- Prints the user's identity and name

### Collaborators

- Userable

Abstract	Employee	FullTimeEmployee, PartTimeEmployee
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Responsibilities

- Stores the wage, attendance, department, and level of the employee
- Getters for everything above
- Setters for everything above
- Prints the department of the employee

Collaborators

FullTimeEmployee

Responsibilities

- Stores the total vacation with salaries and the vacation used that the full-time employee has
- Getters for everything above
- Setters for everything above
- Prints the information of the full time employees' department, position, and level in strings.

Collaborators

- Employee

PartTimeEmployee

Responsibilities

- Stores the schedule of the part-time employee
- Getter for schedule above
- Setter for schedule above
- Prints the information of the part time employees' department, position, and level in strings.

Collaborators

- Employee

**Interface**

**Work**

Responsibilities

- Stores the work information, work requirements
- Getter method for the work information and work requirements
- Setter method for the work information and work requirements

Collaborators

## Group

### Responsibilities

- Stores a group's information, including group members, group leader, and project.
- Getter method for the above information.
- Setter method for the above information.

### Collaborators

- Usable



# Uses Case

## AccountManager

### Responsibilities

- Stores a Hashmap called **employee map** that include the userable as the key and employee as the value.
- Includes a Counter for recording the IDs that have been issued
- Stores and count the total number of employees
- Stores and count the total number of part-time employees
- Stores and count the total number of full-time employees
- Overrides the toString method (i.e Accountmanager)
- Creates new user
- Deletes user
- Gets total number of employees
- Gets total number of part-time employees
- Gets total number of full-time employees

### Collaborators

- Userable
- Employee
- FullTimeEmployee
- PartTimeEmployee
- Verifier

## Verifier

### Responsibilities

- Stores a Hashmap called **employee map** that include the Account number (which is String type) as the key and Userable as the value.
- Verifies whether the account exists
- Verifies whether the account has the level (i.e: authority)
- Prints “this is the verifier”
- Tells the Admin\_System that the login is successful or not

### Collaborators

- Userable
- AccountManager
- AuthorityManager

## AccountChanger

### Responsibilities

- Modifies the information in user and employee account.

### Collaborators

- Userable
- Employee

## AuthorityManager

### Responsibilities

- Performs authority (level) -related tasks.

### Collaborators

- Verifier

## PayManager

### Responsibilities

- Calculates the wage of the employees.
- Gets the particular employee its salary in specific months.

### Collaborators

- AccountManager

## VacationManager

### Responsibilities

- Manages employees' vacation.
- Modifies the status of the employee
- Gets the particular employee its rest number of vacation.

### Collaborators

- AccountManager

**WorkManager**

Responsibilities

- Manages the work information.
- Stores the progress of the unfinished work.
- Records the group information of the finished project.

Collaborators

- Work
- Group



## WorkDistributor

### Responsibilities

- Assigns new work to the group
- Creates a new group

### Collaborators

- Work
- Group

# Interface Adapter

## Admin\_System

### Responsibilities

- Stores all the manager classes (I.e: Account\_Manager, Pay\_Manager)
- Controller for the manager to operate on the use cases
- Receives input from Command\_User\_Interface
- Calls Verifier
- Tells the Command\_User\_Interface whether the login is successful or not
- Sends the information from the Command\_User\_Interface to AccountManager

### Collaborators

- AccountManager
- Pay\_Manager
- Verifier
- WorkDistributor
- WorkManager

# Framework

## Command\_User\_Interface

### Responsibilities

- Provides a command line interface to user for accessing the systems.
- Sends information that user input to the Admin\_System

### Collaborators

- Admin\_System
- Pay\_Manager