

Employee Management System

Instruction:

- Create the **EmployeeManager** class to manage employee records, including adding, removing, updating, finding, and sorting employee information.

Class EmployeeManager

Constructor

- **constructor():**
 - **Parameters:** -
 - creates an empty array in the property **employees**

Properties

- **employees:** employees, array of object employee.

```
{
  id: id, type: number,
  name: Name, type: string,
  position: position, type: String
}
```

Methods

- **addEmployee(name, position)**
 - **Parameters:** **name** type: string, **position** type: string
 - Adds a new employee to the **employees** array. Generate a unique id for each employee.
 - **Return** object of new employee or null if the employee exist
- **removeEmployee(id)**
 - **Parameters:** **id** type: number
 - Removes an employee by employee id.
 - **Return** false if the employee doesn't exist
- **findEmployeeByName(name)**
 - **Parameters:** **name** type: string
 - Searches for employees by name, case-insensitivity. **Return** array of all matching employees.
- **sortEmployeeByName()**
 - **Parameters:** -
 - Sort **employees** array by **employee name**
- **updateEmployee (employee)**
 - **Parameters:** **employee** type: object of employee

- Update employee by employee id.

*For Module 1.1

- **promoteEmployee(id, newPosition)**
 - **Parameters:** **id** type: number, **newPosition** type: string
 - Finds an employee by their ID and updates their position to the new position provided. Logs the promotion. Returns true if the employee was found and promoted, false otherwise.

Initiate code:

```
class EmployeeManager {  
  
}  
  
// Example usage:  
const manager = new EmployeeManager();  
console.log(manager.addEmployee("John Doe", "Developer")); // Adds and logs new employee  
console.log(manager.addEmployee("Jane Doe", "Designer")); // Adds and logs new employee  
console.log(manager.findEmployeeByName("John Doe")); // Finds and logs John Doe  
manager.sortEmployeeByName(); // Sorts employees by name  
console.log(manager.employees); // Logs sorted employees  
manager.promoteEmployee(1, "Senior Developer"); // Promotes John Doe to Senior Developer  
console.log(manager.employees); // Logs employees to see the updated position of John Doe
```