

Lab 6

1- Create an Employee Management System with the specified validations and endpoints. Below is a structured guide on how define the Employee model, and implement the required functionalities:

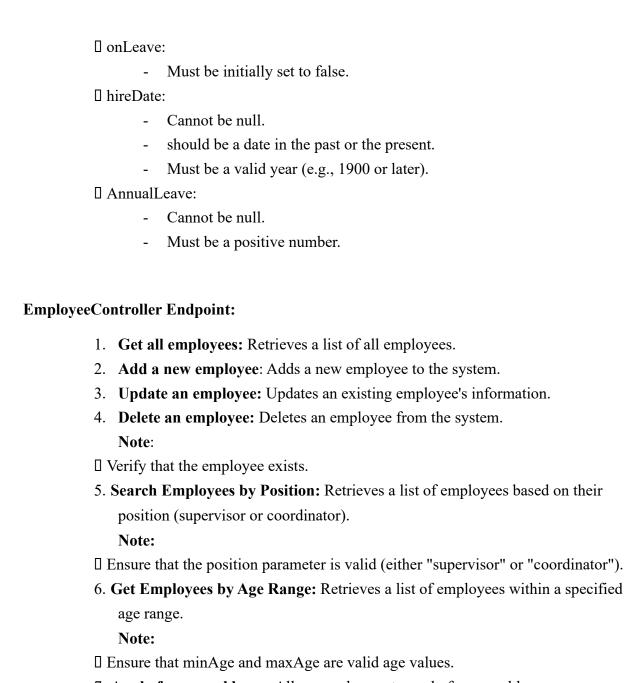
Use: Spring web Lombok and Validation Dependencies.

Create: Employee Model and EmployeeController.

Employees Model has: ID, name, age, position, onLeave, employmentYear and annualLeave.

Validation:

- □ ID:
- Cannot be null.
- Length must be more than 2 characters.
- ☐ Name:
 - Cannot be null.
 - Length must be more than 4 characters.
 - Must contain only characters (no numbers).
- ☐ Email:
 - Must be a valid email format.
- ☐ Phone Number:
 - Must start with "05".
 - Must consists of exactly 10 digits.
- ☐ Age:
- Cannot be null.
- Must be a number.
- Must be more than 25.
- ☐ Position:
 - Cannot be null.
 - Must be either "supervisor" or "coordinator" only.



7. **Apply for annual leave:** Allow employees to apply for annual leave.

Note:

- ☐ Verify that the employee exists.
- \square The employee must not be on leave (the onLeave flag must be false).
- ☐ The employee must have at least one day of annual leave remaining.
- Behavior:
- ☐ Set the onLeave flag to true.
- ☐ Reduce the annualLeave by 1.
- 8. **Get Employees with No Annual Leave:** Retrieves a list of employees who have used up all their annual leave.

9.	Promote Employee: Allows a supervisor to promote an employee to the position
	of supervisor if they meet certain criteria. Note:
	Verify that the employee with the specified ID exists.
	Ensure that the requester (user making the request) is a supervisor.
	Validate that the employee's age is at least 30 years.
	Confirm that the employee is not currently on leave.
	Change the employee's position to "supervisor" if they meet the criteria.

2- Validation Checklist Creation:

- ☐ Choose a specific domain or industry, such as healthcare, finance, or education.
- ☐ Create a validation checklist for data or processes relevant to that domain.
- ☐ Include items that should be validated, validation rules or criteria, and the potential consequences of failing to validate.
- ☐ Share your checklist with colleagues or mentors in that domain for feedback and refinement.
- Use this exercise to practice creating comprehensive validation guidelines for a specific context.