

Lab 6

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validation checklist for an education system that consists of three models (Student, Faculty, and Administrator)

Student Model has: ID, name, age, GPA, joining year, graduation year, specialization

- ID

- Cannot be null. `[@NotEmpty(message = "Empty ID")]`

- ID length must be 10

- `[@Size(min=10,max =10,message = "ID length must be 10")]`

- ID must contain digits only

- `[@Pattern(regex = "\\d{10}$",message = "ID must contain digits only")]`

- name

- Cannot be null. `[@NotEmpty(message = "Empty name")]`

- Name at least 4 characters

- `[@Size(min=4,message = "Name at least 4 characters")]`

- The name must be at most 10 characters.

- `[@Size(max =10,message = "The name must be at most 10 characters.")]`

- Name must contain characters only

- `[@Pattern(regex = "[a-zA-Z]{4,10}$",message = "Name must contain characters only")]`

- age

- Cannot be null.`[@NotNull(message = "Empty age")]`

-Age must be 18 at least

```
[@Min(value = 18,message = "Age must be 18 at least")]
```

-Age must be positive

```
[@Positive(message = "Age must be positive")]
```

- GPA

-Cannot be null.[@NotNull(message = "Empty GPA")]

-GPA must be Positive or zero

```
[@PositiveOrZero(message = "GPA must be Positive or zero")]
```

-GPA does not exceed 5

```
[@Max(value = 5,message = "GPA does not exceed 5")]
```

- joining year

-Cannot be null.[@NotNull(message = "Empty joining year")]

-must be in this format yyyy-MM-dd

```
[@JsonFormat(pattern = "yyyy-MM-dd")]
```

-joining year should be Past or Present

```
[@PastOrPresent(message = "joining year should be Past or Present")]
```

- graduation year

-Cannot be null.[@NotNull(message = "Empty graduation year")]

-must be in this format yyyy-MM-dd

```
[@JsonFormat(pattern = "yyyy-MM-dd")]
```

- specialization

-Cannot be null.[@NotEmpty(message = "Empty specialization")]

-specialization must be at least 4 character and at most 12 character

```
[@Size(min = 4,max = 12,message = "specialization must be at least 4 character and at most 12 character ")]
```

-specialization must contain characters only

```
[@Pattern(regex = "[a-zA-Z]{4,12}$",message = "specialization must contain characters only")]
```

Faculty Model has: ID, name, age, email, phone number, salary, department, number of classes, gender, nationality, position.

- ID

-Cannot be null. `[@NotEmpty(message = "Empty ID")]`

-ID must contain 10 digits

```
[@Size(min=10,max =10,message = "ID must contain 10 digits")]
```

-ID must contain digits only

```
[@Pattern(regex = "\\d{10}$",message = "ID must contain digits only")]
```

- Nama

-Cannot be null.`[@NotEmpty(message = "Empty name")]`

-Name length at least 4 characters and at most 10 characters

```
[@Size(min = 4,max=10,message = "Name length at least 4 characters and at most 10 characters")]
```

-Name must contain characters only

```
[@Pattern(regex = "[a-zA-Z]{4,10}",message = "Name must contain characters only")]
```

- age

-Cannot be null.`[@NotNull(message = "Empty age")]`

-Age must be Positive.`[@Positive(message = "Age must be Positive")]`

-Age should be at least 30 years.

```
[@Min(value = 30,message = "Age should be at least 30 years")]
```

- Email

- Cannot be null.[@NotEmpty(message = "Empty email")]

- Email must be Valid[@Email(message = "Enter Valid email")]

- Phone number

- Cannot be null.[@NotEmpty(message = "Empty phone number")]

- Phone number should be 10 digits.

```
[@Size(min = 10,max = 10,message = "Phone number should be 10 digits")]
```

- Phone number should start with 05 .

```
[@Pattern(regex = "^05\\d{8}",message = "Phone number should start with 05 and contain 10 digits")]
```

- Salary

- Cannot be null.[@NotNull(message = "Empty salary")]

- Salary should be positive [@Positive(message = "Salary should be positive")]

- Salary should be more than 2000

```
[@Min(value = 2001,message = "Salary should be more than 2000")]
```

- Department

- Cannot be null.[@NotEmpty(message = "Empty department")]

- Department length at least 5 characters and at most 12 characters

```
[@Size(min=5,max = 12,message = "Department length at least 5 characters and at most 12 characters ")]
```

- Department must contain characters only

```
[@Pattern(regex = "[a-zA-Z]{5,12}",message = "Department must contain characters only")]
```

]

- Number of classes

-Cannot be null.[@NotNull(message = "Empty classes")]

-Faculty should have at least 3 classes

```
[@Min(value = 3,message = "Faculty should have at least 3 classes")]
```

-Faculty should have at most 5 classes

```
[@Max(value = 5,message = "Faculty should have at most 5 classes")]
```

- Gender

-Cannot be null.[@NotEmpty(message = "Empty gender")]

-Gender must be Male or Female

```
[@Pattern(regexp="Male|Female",message = "Gender must be Male or Female")]
```

- Nationality

-Cannot be null.[@NotEmpty(message = "Empty nationality")]

-Nationality must contain characters only

```
[@Pattern(regexp = "[a-zA-Z]{4,10}",message = "Nationality must contain characters only")]
```

- Position

-Cannot be null.[@NotEmpty(message = "Empty position")]

-Position must be Professor, Lecturer,or Assistant Professor

```
[@Pattern(regexp = "Professor|Lecturer|Assistant Professor",message = "Position must be Professor, Lecturer,or Assistant Professor")]
```

Administrator Model has: ID, name, age, email, department, position, hireDate, isActive.

- ID

- Cannot be null.[@NotEmpty(message = "Empty ID")]

- ID must contain digits only.

- [@Pattern(regex = "\\d{10}",message = "ID must contain digits only")]

- ID must contain 10 digits.

- [@Size(min = 10,max = 10,message ="ID must contain 10 digits")]

- Nama

- Cannot be null.[@NotEmpty(message = "Empty name")]

- Name length at least 4 characters and at most 10 characters

- [@Size(min = 4,max=10,message = "Name length at least 4 characters and at most 10 characters")]

- Name must contain characters only

- [@Pattern(regex = "[a-zA-Z]{4,10}",message = "Name must contain characters only")]

- age

- Cannot be null.[@NotNull(message = "Empty age")]

- Age must be Positive.[@Positive(message = "Age must be Positive")]

- Age should be at least 30 years.

- [@Min(value = 30,message = "Age should be at least 30 years")]

- Email

- Cannot be null.[@NotEmpty(message = "Empty email")]

- Email must be Valid[@Email(message = "Enter Valid email")]

- Department

- Cannot be null.[@NotEmpty(message = "Empty Department")]

-Department must be HR, IT, or Finance.

```
[@Pattern(regexp = "HR|IT|Finance",message = "Department must be HR, IT, or Finance ")]
```

- Position

-Cannot be null.[@NotEmpty(message = "Empty position")]

-Position must be Office Manager,or System Administrator

```
[@Pattern(regexp = "Office Manager|System Administrator",message = "Position must be Office Manager,or System Administrator")]
```

- Hiredate

-Cannot be null.[@NotNull(message = "Empty hire Date")]

-must be in this format yyyy-MM-dd

```
[@JsonFormat(pattern = "yyyy-MM-dd")]
```

- isActive

-Cannot be null. [@NotNull(message = "is Active Empty")]