

Introduction

In modern digital education systems, validating student data is an essential step to ensure the accuracy and integrity of the information stored in the system.

Validation helps prevent common errors such as entering incomplete or illogical data — for example, an empty ID number or an invalid email address — ensuring database reliability and effective communication between the school and students.

-Student ID Validation

-Rule: Must not be null and must contain digits only

-Purpose: Ensures each student has a valid and unique identifier for system tracking

```
NotNull(message = "ID cannot be null")@
```

```
Pattern(regexp = "[0-9]+", message = "ID must contain digits only")@
```

```
;private String id
```

-Student Name Validation

-Rule: Must not be empty and must contain only letters

(no numbers or symbols)

-Purpose: Prevents invalid or incomplete student names in the records

```
NotEmpty(message = "Name cannot be empty")@
```

```
Pattern(regexp = "[A-Za-z ]+", message = "Name must contain letters @  
only")
```

;private String name

-Student Age Validation

-Rule: Must be between 5 and 25

-Purpose: Ensures that the student is within a valid educational age range

Min(value = 5, message = "Age must be at least 5")@

Max(value = 25, message = "Age must be less than or equal to 25")@

;private int age

-Student Email Validation

-Rule: Must follow a valid email format (e.g., example@mail.com)

-Purpose: Ensures the system can contact the student or guardian via email

Email(message = "Invalid email format")@

;private String email