

Noor

The purpose of the student management system is to oversee employees, parents, and students in an environment for learning. Through the application of particular validation criteria for every entity, this system guarantees data integrity. The system's requirements and structure, including Bean Validation limitations, are described in the following documentation. A student management system with specific validation of an endpoint. Below is a structured guide on how to define the student model, and implement the required functionalities:

Student:

Represents a student enrolled in the institution.

- **Name**
 - `@NotEmpty(message="Must not be empty")`
 - `@min(value= 2,message="Minimum of 3 characters")`
 - `@Pattern(regex= "[a-zA-Z]+$",message="Only alphabetic characters are allowed")`
- **Id**
 - `@NotEmpty (message="Must not be empty.")`
 - `@Pattern(regex= "^11\d{8}$",message="Must start with "11" and contain exactly 10 digits")`
- **Age**
 - `@Min(value = 5,message="Minimum age: 5 years")`
 - `@Max(value=19,message="Maximum age: 19 years")`
- **School Name**
 - `@NotEmpty (message = "Must not be empty")`
- **Class**
 - `@NotEmpty(message =" The student's class must not be empty ")`
- **Parent Phone Number**

- @NotEmpty (message="Must not be empty for emergency.")
- @Pattern(regex = "^05\d{8}\$",message="Must start with "11" and contain exactly 10 digits")

Parent

- **Name**

- @NotEmpty(message="Must not be empty")
- @min(value= 2,message="more than 3 characters")
- @Pattern(regex= "[a-zA-Z]+\$",message = "Only alphabetic characters are allowed")

- **Id**

- @NotEmpty (message="Must not be empty.")
- @Pattern(regex = "^11\d{8}\$",message="Must start with "11" and contain exactly 10 digits")

- **Age**

- @Min(18)

- **Phone Number**

- @NotEmpty (message="Must add a phone number.")
- @Pattern(regex = "^05\d{8}\$",message="Must start with "11" and contain exactly 10 digits")

- **Email**

- @NotEmpty(message="Must not be empty")
- @Email (message = "Must be in a valid email format")

- **Job**

- @NotEmpty(message="Must not be empty")
- @Pattern(regex= "[a-zA-Z]+\$",message = "Only alphabetic characters are allowed")

- **Children**

- @NotNull(message= "must not be null")

- **Home**

- @NotEmpty(message="Must not be empty")
- @Pattern(regex= "[a-zA-Z]+\$",message="Only alphabetic characters are allowed")
- **Salary**
 - @NotNull(message= " Must not be null")
 - @Pattern(regex= "^\\d+\$", message = "Must contain only numbers")
 -

Staff

- **Name**
 - @NotEmpty(message="Must not be empty")
 - @min(value= 2,message="more than 3 characters")
 - @Pattern(regex= "[a-zA-Z]+\$",message="Only alphabetic characters are allowed")
- **Id**
 - @NotEmpty (message="Must not be empty.")
 - @Pattern(regex= "^11\\d{8}\$",message="Must start with "11" and contain exactly 10 digits")
- **Age**
 - @Max(value = 65,message = "must be younger than 65")
 - @Min(value = 20,message="must be older than 20")
 - @NotNull(message="must not be null")
- **Home**
 - @NotEmpty(message="Must not be empty")
 - @Pattern(regex= "[a-zA-Z]+\$",message="Only alphabetic characters are allowed")
- **Email**
 - @NotEmpty(message="Must not be empty")
 - @Email (message = "Must be in a valid email format")

- **Phone Number**

- @NotEmpty (message="Must add a phone number.")
- @Pattern(regex = "^05\d{8}\$",message="Must start with "11" and contain exactly 10 digits")

- **Salary**

- @NotNull(message= " Must not be null")
- @Pattern(regex = "^\\d+\$", message = "Must contain only numbers")

- **Position**

- @NotNull(message= " Must not be null")
- @Pattern(regex ="teacher|admin|supervisor")