Healthcare System

The healthcare system is designed to record patient information and manage appointments. The system includes patient and appointment models that have validation rules and criteria for its data.

Patient Model:

1. Patient ID:

@NotEmpty

Validates that the id is not empty.

• @Pattern(regexp = "^[a-zA-Z0-9]+\$")

Validates that id consist of letters and numbers with no special characters.

• Size(min = 4)

Validates that the id must be at least 4 characters.

2. Name:

@NotEmpty

Validates that the name is not empty.

• @Pattern(regexp = "^[a-zA-Z]+\$")

Validates that the name contains of only letters and spaces.

• @Size(min = 3)

Validates that the name must be at least 3 characters.

3. Phone Number:

@Pattern(regexp = "^05\\d{8}\$")
Validates that the phone number starts with 05 and consists of 10 digits.

4. Height:

@NotNull()

Validates that the height field is not null.

@Positive()

Validates that the height is a positive number.

5. Weight:

@NotNull()

Validates that the height field is not null.

@Positive()

Validates that the height is a positive number.

6. Blood Type

@NotEmpty()

Validates that the blood type field is not empty.

@Pattern(regexp = "^(A|B|AB|O)[+-]\$")
Validates that the blood type corresponds to a valid blood category.

7. Medical history

@NotEmpty()

Validates that the medical history field is not empty.

• @Size(max = 150)

Validates that the maximum length for the medical history is 150 characters.

8. Age:

@NotNull()

Validates that the age field is not null.

• @Min(value = 0)

Validates that the minimum value of age is 0.

• @Max(value = 150)

Validates that the maximum value of age is 150.

9. Gender

@NotEmpty()

Validates that the gender field is not empty.

• @Pattern(regexp = "^(Male|Female)\$")

Validates that the gender is male or female only.

10. Date of birth

@NotNull()

Validates that the date of birth field is not null.

@PastOrPresent()

Validates that the date of birth is in the past or the present.

Appointment Model:

- 1. Appointment Date and Time:
 - @NotNull()

Validates that the appointment date and time is not null.

@Future()

Validates that the appointment date and time is in the future.

- 2. Appointment reason:
 - @NotEmpty()

Validates that the appointment reason is not empty.

• @Size(max = 150)

Validates that the maximum length for the appointment reason is 150 characters.

- 3. Doctor ID:
 - @NotEmpty

Validate that the ID is not empty.

• @Pattern(regexp = "^[a-zA-Z0-9]+\$")

Validates that ID consist of letters and numbers with no special characters.

Size(min = 4)

• Validates that the id must be at least 4 characters.

4. Patient ID:

@NotEmpty

Validate that the id is not empty.

• @Pattern(regexp = "^[a-zA-Z0-9]+\$")

Validates that id consist of letters and numbers with no special characters.

• Size(min = 4)

Validates that the id must be at least 4 characters.