HEALTHCARE

TEST NUMBER

3



TEST CASE ID	Model data	Model data	validation checklist	Potential consequences of failing	Java Implementation	
TC_User_01		Full name	User must enter his full name mainly first and last. Name cannot be empty	Incorrect patient name can lead to misdiagnosis or errors in medical records.	@NotEmpty(message = "Full name cannot be empty ") @Pattern(regexp = "^[A-Za-z]+ [A-Za-z]+\$", message = "first and last name is required. No numbers allow") private String fullName;	
TC_User_02		Patient ID	ID must be longer than 10 characters and cannot be null.	Incorrect ID, which can lead to patient mix-ups or incorrect treatments and medications.	@NotEmpty(message = "Enter Patient ID") @Size(min = 10 , message = "Patient ID must be longer than 10 characters") private String patientID;	
TC_User_03		Date of Birth	Date format must be YYYY-MM-DD. The date should be in the past (age 0-100).	Incorrect date of birth, which can result in mixing up patients or administering the wrong treatments or medications	<pre>@NotNull(message = "Date of birth cannot be null") @Past(message = "Date of birth must be in the past") @DateTimeFormat(pattern = "yyyy-MM-dd") private LocalDate dateOfBirth;</pre>	
TC_User_04	Patient	phone number	Must follow the format 0512345678; no letters. cannot be empty.	Missed communications, like appointment reminders or emergency alerts.	@NotEmpty(message = "Phone number cannot be empty") @Size(min = 10 , max = 10 , message = "phone number must be 10 digit ") @Pattern(regexp = "^(05)([0-9]{7})\$", message = "Phone number must be from Saudi Arabia") private String phoneNumber;	
TC_User_05		Emergency phone number	Must follow the format 0512345678; no letters. cannot be empty.	Failure to contact a family member during a medical emergency.	@NotEmpty(message = "Emergency phone number cannot be empty") @Size(min = 10 , max = 10 , message = "Emergency phone number must be 10 digit ") @Pattern(regexp = "^(05)((0-9){7})\$", message = "Emergency phone number must be from Saudi Arabia") private String emergencyPhoneNumber;	
TC_User_06		Email Address	Must be in the format example@domain.com. cannot be empty.	Unsuccessful delivery of electronic medical records or appointment confirmations.	@NotEmpty(message = "Enter your email") @Email(message = "Email is not valid", regexp = "^[a-zA-Z0-9_!#\$%&*+/=?`{ }~^]+@[a-zA-Z0-9]+\$") private String email;	
TC_Appointment	Appointment	Appointment Date	Must be in the future	Failure to attend appointments	@NotNull(message = "Appointment date of birth cannot be null") @Future(message = "Appointment date must be in the future") private LocalDateTime appointmentDate;	
TC_Appointment _02		Doctor ID2	ID must be longer than 10 characters and cannot be null.	Patients being assigned to non-existent or incorrect doctors, which leads delayed treatment	@NotEmpty(message = "Enter dotocr ID") @Size(min = 10 , message = "Doctor ID must be longer than 10 characters") private String doctorID;	
TC_Appointment		Patient ID	ID must be longer than 10 characters and cannot be null.	Mismatches between patient records and appointment schedules can lead to treatment delays.	@NotEmpty(message = "Enter Patient ID") @Size(min = 10 , message = "Patient ID must be longer than 10 characters") private String patientID;	
TC_Appointment _04		Appointment Type	Must specify if the appointment is in-person or online. cannot be empty.	Patients being scheduled incorrectly lead to treatment delays.	@NotEmpty(message = "Appointment type cannot be empty") o @Pattern(regexp = "^(in-person online)\$", message = "Appointment type must be either in-person or online only") private String appointmentType;	
TC_Staff_01		Staff Name®	User must enter his full name mainly first and last. Name cannot be empty	Incorrect staff name, resulting in scheduling mistakes, or wrong treatment assignments	@NotEmpty(message = "staff name cannot be empty ") @Pattern(regexp = "^[A-Za-z]+ [A-Za-z]+\$", message = "first and last name is required. No numbers allow") private String staffName;	
TC_Staff_02		Role	Must be one of the predefined roles Doctor, Nurse, Technician and Receptionist. cannot be empty.	Incorrect role leads to scheduling mistakes, or treatment delays.	@NotEmpty(message = "Role cannot be empty") @Pattern(regexp = "^(Doctor Nurse Technician Receptionist)\$") private String role;	
TC_Staff_03		Staff ID®	ID must be longer than 10 characters and cannot be null.	Problems in tracking staff performance and payroll, as well as the inability to associate staff with the correct records	@NotEmpty(message = "Enter Staff ID") @Size(min = 10 , message = "Staff ID must be longer than 2 characters") private String staffID;	
TC_Staff_04		Email Address2	Must be in the format example@domain.com. cannot be empty.	Missed communications, such as important updates, shift schedules, or emergency contact information	@NotEmpty(message = "Enter your email") @Email(message = "Email is not valid", regexp = "^[a-zA-Z0-9_!#\$%&*+/=?`{ }~^]+@[a-zA-Z0-9]+\$") private String staffEmail;	

TC_Staff_05	Staff	phone number	Must follow the format 0512345678; no letters. cannot be empty.	delayed communications, such as important updates, shift schedules, or emergency contact information	@NotEmpty(message = "Phone number cannot be empty") @Size(min = 10 , max = 10 , message = "phone number must be 10 digit ") @Pattern(regexp = "^{05}([0-9]{7})\$", message = "Phone number must be from Saudi Arabia") private String phoneNumber;	
TC_Staff_06		Department 2	Must be one of the predefined roles Cardiology, Pediatrics and Emergency. cannot be empty.	Incorrect staffing of departments, resulting in efficiency drop and potential misdiagnosis or delayed care."	@NotEmpty(message = "Department cannot be empty") @Pattern(regexp = "^(Cardiology Pediatrics Emergency)\$") private String department;	
TC_Staff_07		Date of Joining	Must be a past or present date	mistakes in tracking staff seniority, along with potential discrepancies in payroll or benefits calculations	@PastOrPresent(message = "Date of joining must be in the past or present") private LocalDate dateOfJoining	
TC_Staff_08		Salary	Must be a positive number greater than 6000. cannot be empty.	wrong payments	@NotNull(message = "salary cannot be empty") @Positive(message = "salary must be positive") @Min(value = 6000) private double salary;	