

Class Specification

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Method Signature

Method Name: checkSlotAvailability	class Name: Appointment	ID: 1
Client/Consumers: Button click event that triggers method Form validators that call the method before allowing application scheduling form submission		
Associated Use Case: Schedule appointment		
Description of Responsibilities Validate Slot Availability: Verify if a specific appointment slot, identified by slotId, is available for booking.		
Arguments Received slotId: string status: string		
Pre-conditions: slotId != Null		
Post-condition status != 'available' && status != 'booked'		

Invariants {clientId = Client.GetClientId()} {slotId = AppointmentSlots.GetSlotId()}

How to handle constraints violations

Pre-condition: Throw an error if the slotId is null.

Post-Condition: Throw an error if the status is not available or booked.

Invariants:

If Client.GetClientId() returns a null, invalid, or undefined value, throw an error and return a failure response to the client.

If AppointmentSlots.GetSlotId() returns a null, invalid, or undefined value, throw an error and return a failure response to the client.