

Practical Assessment: Clinic Booking System

Scenario Overview

You are tasked with designing and implementing a simplified Clinic Booking System for the Department of Health and Wellness. The system should allow patients to book appointments at clinics, view available time slots, and receive confirmation.

Assessment Tasks

1. Implementation

- Build a solution using Blazor WASM
- Implement:
 - Booking logic
 - Time slot availability
 - Confirmation messages
 - Basic validation (e.g., no double bookings)

2. Code Quality

- Follow SOLID principles.
- Use meaningful naming conventions.
- Implement basic unit test

Technology Stack Overview

- Backend (ASP.NET Core Web API):

The backend would be a single controller with a method for booking. It would use a local database with Entity Framework Core. The booking logic would need to handle basic availability and validation to prevent a double booking.

- Frontend (Blazor WASM)

The frontend would be a single page. It would have a form for a patient to select a clinic and a date. The UI would then display available time slots. The developer would use a library like MudBlazor for components to save time and

- HttpClient to communicate with the backend.
 - JWT Token for Authentication
 - Focus on clean, readable code with meaningful naming conventions.
 - Only a single, critical unit test for the booking logic would be required using a framework like xUnit and a mocking library like Moq.
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