

EECS 2311 Take Home Assignment

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Section: [SectionName]

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End-to-End Manual Testing

User Story 2: Customer: Schedule an appointment

Test Case 1: Basic Appointment Scheduling

1. Navigate to the homepage
2. Click on "Login" in the navigation bar
3. Enter valid customer credentials and click "Login"
4. Click on "Book Appointment" in the dashboard
5. Select a service from the dropdown menu
6. Select an available date from the calendar
7. Select an available time slot
8. Click "Confirm Appointment"
9. Verify that a confirmation message appears
10. Navigate to "My Appointments" and verify the appointment is listed

Expected Result: Appointment is successfully created and appears in the user's appointment list.

Test Case 2: Scheduling with Unavailable Time Slot

1. Navigate to the homepage
2. Login as a customer
3. Click on "Book Appointment"
4. Select a service from the dropdown menu
5. Select a date from the calendar
6. Select a time slot that is already booked

7. Attempt to confirm appointment

Expected Result: System should prevent booking and display an error message indicating the time slot is unavailable.

Test Case 3: Scheduling Without Selecting Required Fields

1. Navigate to the homepage
2. Login as a customer
3. Click on "Book Appointment"
4. Leave service selection empty
5. Select a date and time
6. Click "Confirm Appointment"

Expected Result: System should display validation errors for the missing fields and prevent booking.

Bug and Issue Reports

Bug 1: Time Slot Selection UI Issue

Summary: Already booked time slots are not visually marked as unavailable.

Steps to Reproduce:

1. Login as a customer
2. Navigate to appointment booking
3. Select a date that has existing appointments

Expected Behavior: Already booked time slots should be visually marked as unavailable.

Actual Behavior: All time slots appear available until selection is attempted.

Severity: Medium

Code Review

Code Smells Checked

- Duplicate code
- Long methods

- Large classes
- Feature envy
- Inappropriate intimacy
- Comments
- Dead code

Code Smells Detected

1. Long Method in AppointmentController.js

The method for handling appointment creation is over 70 lines and handles multiple responsibilities including validation, business logic, and UI updates.

Recommendation: Split into smaller methods with single responsibilities.

2. Duplicate Validation Logic

Similar validation logic is repeated in both frontend components and backend controllers.

Recommendation: Extract common validation logic into shared utility functions.