

EECS 2311 Take Home Assignment

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Section: [SectionName]

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End-to-End Manual Testing

User Story 3: Staff: Manage salon services

Test Case 1: Adding a New Service

1. Navigate to the homepage
2. Click on "Login" in the navigation bar
3. Enter valid staff credentials and click "Login"
4. Navigate to "Manage Services" in the staff dashboard
5. Click "Add New Service"
6. Fill in the service name, description, duration, and price
7. Upload a service image
8. Click "Save Service"
9. Verify the service appears in the services list

Expected Result: New service is successfully added and appears in the services list.

Test Case 2: Editing an Existing Service

1. Navigate to the homepage
2. Login as staff
3. Navigate to "Manage Services"
4. Find an existing service and click "Edit"
5. Modify the service details (name, price, description)
6. Click "Save Changes"
7. Verify the changes are reflected in the services list

Expected Result: Service details are updated successfully and changes are visible.

Test Case 3: Deleting a Service

1. Navigate to the homepage
2. Login as staff
3. Navigate to "Manage Services"
4. Find an existing service and click "Delete"
5. Confirm deletion in the popup dialog
6. Verify the service is removed from the services list

Expected Result: Service is successfully deleted and no longer appears in the list.

Test Case 4: Adding Service with Missing Information

1. Navigate to the homepage
2. Login as staff
3. Navigate to "Manage Services"
4. Click "Add New Service"
5. Leave required fields empty (e.g., service name, price)
6. Click "Save Service"

Expected Result: System should display validation errors and prevent saving.

Bug and Issue Reports

Bug 1: Service Image Upload Issue

Summary: Service images don't display correctly after upload.

Steps to Reproduce:

1. Login as staff
2. Navigate to "Manage Services"
3. Add a new service with an image
4. Save the service
5. View the service in the list or details view

Expected Behavior: The uploaded image should display correctly.

Actual Behavior: Image appears distorted or doesn't load at all.

Severity: Medium

Bug 2: Service Price Validation

Summary: System allows negative values for service prices.

Steps to Reproduce:

1. Login as staff
2. Navigate to "Manage Services"
3. Add a new service with a negative price value
4. Attempt to save the service

Expected Behavior: System should reject negative price values.

Actual Behavior: Service is saved with a negative price.

Severity: High

Code Review

Code Smells Checked

- Bloated classes
- Magic numbers
- Primitive obsession
- Switch statements
- Feature envy
- Shotgun surgery
- Inappropriate intimacy

Code Smells Detected

1. Primitive Obsession in ServiceManagement Component

Service prices, durations, and types are represented as primitive types throughout the code without proper domain objects.

Recommendation: Create proper domain classes for Service, Price, Duration, etc.

2. Magic Numbers in Service Form Validation

Validation uses hard-coded values like 500 for maximum price without explanation.

Recommendation: Replace with named constants or configuration values.

3. Duplicated Service Management Logic

Similar code for service validation appears in multiple components.

Recommendation: Extract to a shared service or utility class.