

# M5\_WOCMS\_Review

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## 1. Manual Code Review

### 1.a. Code Quality

- The WOCMS team's code is well-documented with appropriate variable names.
- Code structure is generally clean and efficient.
- One minor issue noticed: some methods could be broken down further to improve modularity.
- Error handling is present but could benefit from more explicit comments in certain edge cases.

**Score: 9/10**

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## 2. Manual Test Review

### 2.a. Test Completeness

- All APIs exposed to the frontend are covered.
- Error cases and edge cases are included.
- Three main use cases are well-tested.

**Score: 10/10**

### 2.b. Requirement Coverage

- Test implementation clearly matches the requirements and design specification.

**Score: 10/10**

### 2.c. Test Structure

- Tests are well-structured.
- Some test methods could be better named to reflect specific behavior tested.

**Score: 9/10**

### 2.d. Test Coverage

- High coverage achieved.
- Assertions cover most typical and edge behaviors.

**Score: 10/10**

### 2.e. Non-Functional Requirements

- Both non-functional requirements are tested effectively with logs provided.

**Score: 10/10**

## 2.f. Automation

- All backend tests can be executed automatically via GitHub Actions.

**Score: 10/10**

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## 3. Automated Code Review

### 3.a. Codacy Setup

- Codacy configured correctly and runs as required.

**Score: 10/10**

### 3.b. Justification of Issues

- Remaining issues justified clearly, but one or two could have a more detailed explanation (e.g., why refactoring would affect UI consistency).

**Score: 9/10**

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## 4. Fault Identification

During the review, we identified the following issue:

- **Fault:**  
In the product deletion feature, when deletion fails due to server error (e.g., network failure or backend error), the UI does not display a clear error message to the user. The current flow assumes deletion success or permission denial but lacks feedback for unexpected failures.

**Severity:** Medium.

It impacts usability in case of unexpected failures, though it does not affect the core functionality under normal conditions.

**Suggested Fix:**

Add appropriate error handling and user feedback (Snackbar or Toast) in case of unexpected server errors during product deletion.

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## Total Score

**38/40**