



**ADDIS ABABA SCIENCE AND TECHNOLOGY UNIVERSITY
COLLEGE OF ELECTRICAL AND MECHANICAL ENGINEERING
DEPARTMENT OF SOFTWARE ENGINEERING**

Course Name:Software Configuration Management

Section: B

Deliverable 7

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Configuration Audit

1. Introduction

1.1 Purpose

The audit confirms that the TO-DO List Manager project complies with the Software Configuration Management Plan (SCMP). It verifies that configuration items (CIs) are identified, versioned, controlled, and that approved change requests (CRs) are implemented. This ensures stability, traceability, and readiness for academic submission.

1.2 Coverage

Two SCM activities were conducted on Baseline 2 (BL2):

- **Physical Configuration Audit (PCA):** Existence, naming, and version consistency of CIs.
- **Functional Configuration Audit (FCA):** Implementation of CRs and compliance with requirements.

2. Scope and References

2.1 Scope

Audited items:

- GitHub repository: *todo-scm-project*
- CI Register
- Approved CRs:
 - CR-001: Task Priority Levels
 - CR-002: Task Due Dates
 - CR-003: Theme & Login Styling
- Baselines: BL1 (initial setup), BL2 (prototype with CRs)

2.2 References

SCMP, CI Register, CR documents, Baseline records, README.md, GitHub commits/tags.

3. Physical Configuration Audit (PCA)

3.1 Purpose

Ensures repository contents match documentation, naming conventions, and version tags.

3.2 Findings

- **Document–Repository Consistency:** README.md, SCMP, CI Register all present and aligned. No missing artifacts.
- **Naming Verification:** Repository name, React components (PascalCase), config files, and folder structure comply with SCMP.
- **Version Consistency:** CI Register matches repository; Git tags BL1/BL2 applied correctly; no conflicts.

3.3 Summary

PCA Result:  PASSED — All items properly stored, named, and versioned.

4. Functional Configuration Audit (FCA)

4.1 Purpose

Ensures CRs and requirements are implemented.

4.2 CR Verification

- **CR-001:** Priority levels (High/Medium/Low) selectable with visual indicators → *Compliant*.
- **CR-002:** Due date field and dashboard display → *Compliant*.
- **CR-003:** Updated theme (#880D1E) and login styling → *Compliant*.

4.3 Requirements Compliance

Login, task creation/management, priority, and due date features all function correctly.

4.4 Summary

FCA Result:  PASSED — All CRs implemented and requirements satisfied.

5. Results Summary

- PCA: Pass
- FCA: Pass
- **Overall Audit Result:**  PASS

6. Issues, Risks, and Recommendations

- **Issues:** None identified.
- **Risks:** Future complexity; need for stricter access control with more contributors.
- **Recommendations:** Maintain CR procedures, add automated CI checks, enforce baseline tagging.

7. Conclusion

The Configuration Audit confirms full compliance with the SCMP. All CIs are controlled, CRs implemented, and requirements met. The project is approved for academic submission.

Audit Conducted By: Configuration Manager

Baseline Audited: BL2

Date: December 2025