



COLLEGE OF ENGINEERING

DEPARTMENT OF SOFTWARE ENGINEERING

COURSE: Software configuration management

Title: Attendance Management System

Audit Report

SECTION: B

GROUP 3

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1. Introduction

1.1 Purpose

This Configuration Audit verifies that the Attendance Management System project complies with the approved Software Configuration Management Plan (SCMP). The audit confirms proper identification, versioning, and control of Configuration Items (CIs), as well as correct implementation of approved Change Requests (CRs). It ensures configuration stability, full traceability, and readiness for academic evaluation.

1.2 Coverage

The audit focuses on the latest stable configuration (main branch, post-functional enhancements) and references established baselines. Two standard audit types were performed:

- **Physical Configuration Audit (PCA):** Verification of CI existence, naming conventions, and version consistency.
- **Functional Configuration Audit (FCA):** Confirmation that approved CRs and core requirements are fully implemented and operational.

2. Scope and References

2.1 Scope

Audited elements include:

- GitHub repository: [frezermt/Attendance-Management-System](#)
- Configuration Item Register
- Approved Change Requests:
 - CR-001: UI Improvements
 - CR-002: Attendance Logic Updates

- CR-003: Documentation Corrections

- Baselines: BL1 (initial setup), BL2 (post-CR implementation)
- Source code, documentation, and repository metadata

2.2 References

- Software Configuration Management Plan (SCMP)
- Configuration Item Register
- Change Request documentation
- Baseline Records
- Git commit history, tags (BL1, BL2), and GitHub Release v1.0 / v1.1

3. Physical Configuration Audit (PCA)

3.1 Purpose

The PCA ensures that repository contents align with documented CIs, naming conventions, and versioning rules defined in the SCMP.

3.2 Findings

CI Name	Version	Status	Notes	CR(s) Traced
SCMP_Attendance_Management_System.docx	1.1	Baseline d (BL2)	Updated with CR-003	CR-003
CI_Register.xlsx	1.1	Baseline d (BL2)	Updated statuses	CR-003
CR-001_UI_Improvement.pdf	1.1	Baseline d (BL2)	Layout improvements	CR-001

CR-002_Attendance_Logic_Update.pdf	1.1	Baseline d (BL2)	Duplicate check logic added	CR-002
CR-003_Documentation_Correction.pdf	1.1	Baseline d (BL2)	Typos corrected	CR-003
Change_Log.pdf	1.1	Baseline d (BL2)	All CRs recorded	CR-001, CR-002, CR-003
index.html	1.1	Baseline d (BL2)	Dashboard page updated	CR-001
login.html	1.1	Baseline d (BL2)	Login page updated	CR-001
attendance.html	1.1	Baseline d (BL2)	Attendance page functional	CR-002
style.css	1.1	Baseline d (BL2)	Visual improvements	CR-003
script.js	1.1	Baseline d (BL2)	Attendance logic implemented	CR-002
attendance_data.json	1.1	Baseline d (BL2)	Updated JSON structure	CR-003

3.3 Summary

PCA Result: Pass All Configuration Items are correctly identified, stored, named, and version-controlled.

4. Functional Configuration Audit (FCA)

4.1 Purpose

The FCA verifies that approved Change Requests and project requirements have been fully implemented and function as specified.

4.2 CR Verification Table

CR ID	Description	Implemented Feature / Change	Verification Status	Remarks
CR-001	UI Improvements	Login page and Dashboard styling updated	Compliant	Layout verified visually
CR-002	Attendance Logic	Present/Absent buttons, dynamic student table	Compliant	Functionality tested locally
CR-003	Documentation	SCMP and CI Register updates	Compliant	All documentation changes reflected

4.3 Requirements Compliance

- Core functionality (user login, dashboard, attendance marking, JSON data storage) is operational.
- All enhancements from approved CRs are integrated and verified through local testing.

4.4 Summary

FCA Result: Pass All approved Change Requests are correctly implemented, and system requirements are satisfied.

5. Audit Results Summary

Audit Type	Result	Comments
PCA	Pass	All CIs verified, versions correct, naming consistent, repository intact
FCA	Pass	All approved CRs implemented correctly; features verified
Overall	Pass	System stable, traceable, ready for submission

6. Issues, Risks, and Recommendations

Recommendation ID	Action Item	Priority	Notes
R-001	Tag current main branch with BL2 and v1.1.0	High	Formal baseline capture for submission
R-002	Enable branch protection on main	Medium	Prevent accidental direct commits
R-003	Implement CI / automated tests	Medium	Ensure regression verification in future
R-004	Adhere strictly to change control process	High	Avoid configuration drift post-submission

Risks:

- Potential configuration drift in multi-contributor scenarios without branch protection.

- Lack of formal release tag for final CR-integrated state (recommend tagging v1.1 and BL2).

Issues: None identified during the audit.

7. Conclusion

This Configuration Audit confirms that the Attendance Management System fully adheres to the SCMP. All Configuration Items are properly controlled, approved Change Requests are implemented, and functional requirements are met. The project configuration is stable, traceable, and approved for academic submission.

Audit Conducted By: Group Configuration Manager / Team Members

Baseline Audited: Latest configuration (post-CR implementation, BL2)

Date: December 26, 2025