



College of Engineering Software Engineering Department

Title: Intelligent parking management system

| Group Name | ID |
|---------------------|------------|
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Configuration Item (CI) Register – IPMS

Purpose of the CI Register

This Configuration Item (CI) Register provides a formal record of all configuration items identified for control under the Software Configuration Management Plan (SCMP) for the Intelligent Parking Management System (IPMS). The register ensures visibility, traceability, ownership, and status tracking of all controlled artifacts throughout the project lifecycle. This document itself is a controlled configuration item.

Scope and Applicability

This CI Register applies to all project-level artifacts produced during the IPMS project, including planning documents, technical documents, source code, data files, change management records, baselines, releases, and audit reports. All items listed in this register are subject to configuration control as defined in the SCMP.

CI Identification Principles

Configuration items are selected based on the following principles:

- Impact on system functionality or documentation integrity
- Requirement for version control and traceability
- Inclusion in baselines or releases
- Susceptibility to change

Each CI is uniquely identifiable through its name, version, category, and repository location.

| CI ID | CI Name | Version | Category | owner | status |
|-------|----------------------------|---------|------------------|----------------|----------|
| CI-01 | SCMP | V1.0 | Documentation CI | Meron Kassahun | Approved |
| CI-02 | CI Register | V1.0 | Documentation CI | Meron Getaneh | Approved |
| CI-03 | Requirements Specification | V1.0 | Documentation CI | Meron Getaneh | Approved |

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|-------|--|------|----------------------|------------------|----------|
| CI-04 | UI Mockups | V0.X | Documentation CI | Hilina Fiseha | Draft |
| CI-05 | index.html (Login Page) | V1.0 | Source code CI | Hilina Fiseha | Active |
| CI-06 | dashboard.html / main.html | V1.0 | Source code CI | Kaleb Demisse | Active |
| CI-07 | parking.js | V1.0 | Source code CI | Kaleb Demisse | Active |
| CI-08 | style.css | V1.0 | Source code CI | Hilina Fiseha | Active |
| CI-09 | parking.json (Simple Database) | v1.0 | Data CI | Kaleb Demisse | Active |
| CI-10 | README.md | v1.0 | Documentation CI | Meron Getaneh | Approved |
| CI-11 | Change Request Form | v1.0 | Change Management CI | Mesud Ahmed | Approved |
| CI-12 | Change Log | v1.0 | Change Management CI | Mesud Ahmed | Active |
| CI-13 | Baseline Record – BL1 | v1.0 | Baseline CI | Meron Kassahun | Approved |
| CI-14 | Baseline Record – BL2 | v1.0 | Baseline CI | Meron Kassahun | Approved |
| CI-15 | Release Notes v1.0 | v1.0 | Release CI | Meron Kassahun | Approved |
| CI-16 | Release Notes v2.0 | v1.1 | Release CI | Meron Kassahun | Approved |
| CI-17 | Configuration Audit Report (PCA & FCA) | v1.0 | Audit CI | Kirubel Eskinder | Approved |

Versioning and Status Control

Each CI version is incremented in accordance with the versioning rules defined in the SCMP. CI status values include Draft, Active, Approved, Planned, and Retired. Changes to any CI require an approved change request once the CI has been baselined.

Ownership and Responsibility

Each configuration item has a designated owner responsible for maintaining its accuracy, initiating updates, and ensuring compliance with SCM procedures. Ownership assignments support accountability and traceability.

Maintenance of the CI Register

This CI Register is maintained by the Documentation Owner under the oversight of the SCM Coordinator. Updates to this register are controlled through the change management process and reviewed at defined project milestones.

Approval

Prepared by: Documentation Owner

Reviewed by: SCM Coordinator

Approved by: Project Team

Version: v1.0

Date: _December 15, 2025