



# **ADDIS ABABA SCIENCE AND TECHNOLOGY UNIVERSITY**

## **COLLEGE OF ELECTRICAL AND MECHANICAL ENGINEERING**

### **DEPARTMENT OF SOFTWARE ENGINEERING**

**Course Name: Software Configuration Management**

#### ***Deliverable 6***

Group Members: Section B

1. Dawit Sema.....ETS 0455/14
2. Dawit Berhanu.....ETS 0457/14
3. Delal Mohammad .....ETS 0482/14
4. Eden Melaku.....ETS 0496/14
5. Eyerusalem Kidane..... ETS 0574/14
6. Gelila Nebiyu.....ETS 0690/14
7. Hana Abiyu.....ETS0728/14

Submitted to:Mr.Yibrah

Submission Date:30/12/2025

# 1. Release Management

## 1.1 Purpose of Release Management

Release Management establishes formal procedures for packaging, documenting, and distributing approved configurations of the system at defined milestones. It ensures that releases are reproducible, traceable, and accompanied by comprehensive release notes detailing scope, changes, verification, and installation instructions.

Releases provide:

- Stable, versioned deliverables for stakeholders
- Clear traceability to baselines and Change Requests (CRs)
- Auditability of delivered functionality
- Controlled distribution via GitHub Releases

For the TaskFlow Pro project (repository: <https://github.com/Gelila-Nebiyu/todo-scm-project>), two releases are defined in accordance with the Software Configuration Management Plan (SCMP):

- **Release v1.0** – Initial Working System (core functionality)
- **Release v1.1** – Complete System (all approved CR implementations)

Each release is:

- Tagged in Git (v1.0.0 and v1.1.0 for semantic versioning compliance)
- Published as a GitHub Release with detailed notes
- Built from the main branch post-verification

## 1.2 Release 1 (v1.0): Initial Working System

### Release Description

This release delivers the initial functional prototype, providing core task management capabilities with authentication and persistence. Pending Change Requests are explicitly deferred to v1.1.

### GitHub Release

- **Tag Name:** v1.0.0
- **Release Title:** Initial Working System
- **Date Published:** December 24, 2025
- **Status:** Pre-release (initial delivery)

### Release Record – v1.0

- **Release ID:** v1.0 (tagged v1.0.0)
- **Release Name:** Initial Working System
- **Date Released:** December 24, 2025
- **Baseline Reference:** Built post-BL1
- **Approved By:** Group Configuration Manager / Team Lead **Status:** Released

**Release Scope** Core functionality without CR enhancements.

### Key Features Delivered

- User authentication (login/logout) with persistence via localStorage
- Task management dashboard (create, read, update, delete tasks)
- Responsive UI with loading states and Tailwind CSS baseline
- Optional Gemini AI integration framework

### Configuration Items Included (Selected)

CI ID	CI Name	Version
CI-01	src/App.tsx	v1.0
CI-02	src/components/Login.tsx	v1.0
CI-03	src/components/Dashboard.tsx	v1.0
CI-04	tailwind.config.js	v1.0
CI-05	README.md	v1.0

### Known Limitations (Deferred)

- Task priority levels (CR-001)
- Due dates and overdue alerts (CR-002)
- Theme restyle (#880D1E primary) (CR-003)

### Verification

- Local testing confirmed authentication persistence, task CRUD operations, and responsive behavior
- No regressions from BL1

### Distribution

- Published at: <https://github.com/Gelila-Nebiyu/todo-scm-project/releases/tag/v1.0.0>

## 1.3 Release 2 (v1.1): Complete System

### Release Description

This final release incorporates all approved Change Requests, delivering the complete TaskFlow Pro application with enhanced task management and styling.

## GitHub Release

- **Tag Name:** v1.1.0
- **Release Title:** Complete System
- **Date Published:** December 29, 2025
- **Status:** Latest release

## Release Record – v1.1

- **Release ID:** v1.1 (tagged v1.1.0)
- **Name:** Complete System
- **Date Released:** December 29, 2025
- **Baseline Reference:** Final configuration (post all CRs)
- **Approved By:** Group Configuration Manager / Team Lead **Status:** Released

**Release Scope** Full system with all planned enhancements.

## Implemented Change Requests

- CR-001: Task priority levels (High/Medium/Low) with color-coded badges
- CR-002: Due date selection with date picker and overdue highlighting
- CR-003: Theme restyle (primary #880D1E, dark login background, centered card)

## Key Features Delivered (Additions Since v1.0)

- Enhanced task model and UI components
- Priority and due date fields with visual indicators
- Updated styling and theme application

## Configuration Items Updated (Selected)

CI ID	CI Name	Version
CI-01	src/components/Dashboard.tsx	v1.1
CI-02	src/components/ToDoItem.tsx	v1.1
CI-03	src/types.ts	v1.1
CI-04	tailwind.config.js	v1.1
CI-05	README.md (final)	v1.1

## Verification

- Full regression testing of v1.0 features
- Specific testing of new priority, due date, and theme functionality
- Confirmed responsiveness and persistence

## Distribution

- Published at: <https://github.com/Gelila-Nebiyu/todo-scm-project/releases/tag/v1.1.0>

## 1.4 Release Management Rules

- Releases are created only after verification and approval
- Semantic versioning applied (v<MAJOR>.<MINOR>.<PATCH>)
- GitHub Releases include structured notes with scope, changes, verification, and installation guidance
- Source code attached or accessible via tag checkout
- Releases reference baselines and CRs for traceability

## 1.5 SCM Compliance

This release strategy supports:

- Controlled delivery of stable configurations
- Traceability from requirements through CRs to released features
- Auditability via Git tags and published release notes
- Alignment with SCMP release procedures

Both required releases (v1.0 and v1.1) have been successfully uploaded to GitHub Releases.