



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

Course Name:Software Configuration Management

Section: B

Deliverable 5

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1.Baselines

1.1 Purpose of Baselines

A **baseline** is a formally approved snapshot of selected Configuration Items (CIs) at a specific point in time.

Once a baseline is established, changes to any CI within the baseline are allowed **only through the approved Change Control process**.

Baselines ensure:

- Stability of the project
- Traceability of changes
- Auditability for SCM reviews
- Clear project progress milestones

For the **TO-DO List Manager SCM Project**, two baselines are defined:

- **Baseline 1 (BL1)** – Initial project setup
- **Baseline 2 (BL2)** – Working prototype with approved changes

Each baseline is:

- Tagged in GitHub
- Documented using a **Baseline Record**

1.2 Baseline 1 (BL1): Initial Project Baseline

Baseline Description

Baseline 1 represents the **initial approved state of the project**, including repository setup, initial documentation, and the Configuration Item Register.

This baseline establishes the foundation for development and places all initial artifacts under configuration control.

Baseline 1 Contents

- GitHub repository created ([todo-scm-project](#))
- Initial folder structure
- README.md
- SCMP document
- CI Register

- License and configuration files

Git Tag

- **Tag Name:** BL1
- **Description:** Initial repository setup and documentation baseline

Baseline Record – BL1

Baseline ID: BL1

Baseline Name: Initial Project Baseline

Date Created: December 2025

Approved By: Team Lead / Configuration Manager

Status: Approved

Baseline Scope

This baseline includes all initial configuration items required to start the project under SCM control.

Configuration Items Included

CI ID	CI Name	Version
CI-01	GitHub Repository	v1.0
CI-02	README.md	v1.0
CI-03	SCMP Document	v1.0
CI-04	CI Register	v1.0
CI-05	package-lock.json	v1.0
CI-06	tsconfig.json	v1.0
CI-07	tailwind.config.js	v1.0
CI-08	.gitignore	v1.0
CI-09	LICENSE	v1.0

Baseline Control

- All files are stored in GitHub
- Any modification requires an approved Change Request (CR)

- This baseline serves as the reference for future development

1.3 Baseline 2 (BL2): Functional Prototype Baseline

Baseline Description

Baseline 2 represents a **working prototype of the TO-DO List Manager**, including approved enhancements introduced through Change Requests.

This baseline reflects the system after implementation of functional and UI improvements.

Baseline 2 Contents

- Fully functional TO-DO application prototype
- Dashboard and login functionality
- Approved CR implementations:
 - Task priority levels
 - Due date functionality
 - Theme and login page styling updates

Git Tag

- **Tag Name:** BL2
- **Description:** Working prototype with approved CR fixes

Baseline Record – BL2

Baseline ID: BL2

Baseline Name: Functional Prototype Baseline

Date Created: December 2025

Approved By: Team Lead / Configuration Manager

Status: Approved

Baseline Scope

This baseline includes all source code, configuration files, and documents required for a fully functional prototype.

Configuration Items Included

CI ID	CI Name	Version
CI-01	GitHub Repository	v1.1

CI-02	src/App.tsx	v1.1
CI-03	src/components/Login.tsx	v1.1
CI-04	src/components/Dashboard.tsx	v1.1
CI-05	src/components/*	v1.1
CI-06	data/ folder	v1.1
CI-07	README.md	v1.1
CI-08	tailwind.config.js	v1.1
CI-09	package-lock.json	v1.1

Implemented Change Requests

- **CR-001:** Add task priority levels
- **CR-002:** Add due date for tasks
- **CR-003:** Update theme color and login page styling

Baseline Control

- Changes are implemented only via approved CRs
- Feature branches and Pull Requests are used
- BL2 is the reference point for audits and evaluation

1.4 Baseline Management Rules

- Each baseline is **tagged in GitHub**
- Baselines cannot be modified directly
- Any change after a baseline requires:
 - Approved Change Request
 - New version increment
 - New baseline (if significant)

1.5 SCM Compliance

This baseline strategy supports:

- Configuration audits (FCA/PCA)
- Traceability between CIs, CRs, and releases

- Controlled evolution of the TO-DO List Manager system