

Day 1 – Detailed Completion & Day 2 Handover Document

Project: Mini Manufacturing ERP (PPO-Oriented)

Date: 04 February 2026

1. Purpose of This Document

This document confirms that all Day 1 work has been completed successfully and acts as a handover reference for starting Day 2 work in a new session without confusion.

2. Day 1 Objectives (Achieved)

- Understand complete ERP business workflow
- Finalize project scope and ERP modules
- Lock technology stack and system architecture
- Set up backend project structure
- Create GitHub repository and push Day 1 work

3. ERP Workflow Locked on Day 1

Customer → Sales Order → Purchase Order → GRR → Inventory Update → Sales Completion → Expenses → Reports & Dashboard

- Stock increases ONLY through GRR
- Stock decreases ONLY after Sales Order completion
- Purchase Order does NOT affect stock
- Manual stock updates are NOT allowed
- Sales Order cannot complete without sufficient stock

4. Finalized Modules (Scope Locked)

- Authentication & Role Management (ADMIN, STAFF)
- User Management
- Item Master (read-only stock)
- Supplier Management
- Purchase Order Management
- Goods Receipt Report (GRR)
- Sales Order Management
- Inventory (view-only)
- Expense Management
- Dashboard & Reports

5. Tech Stack & Architecture (Frozen)

- Backend: Java 17, Spring Boot, Spring Security, JPA, MySQL
- Frontend: React, Tailwind CSS
- Authentication: JWT (stateless)
- Architecture: Controller → Service → Repository → Entity → DTO

6. Backend Package Structure to Lock (IMPORTANT)

The following base package structure must be used consistently from Day 2 onward:

- com.erp.backend.config (security, JWT, configuration classes)
- com.erp.backend.controller (REST controllers only)
- com.erp.backend.service (business logic)
- com.erp.backend.repository (JPA repositories)
- com.erp.backend.entity (database entities)
- com.erp.backend.dto (request/response DTOs)
- com.erp.backend.exception (global exception handling)

7. Day 2 Starting Point

Day 2 will begin with MySQL configuration, database schema design, and ER diagram creation based strictly on the locked workflow and modules defined above.

This document confirms Day 1 completion and provides a clear reference to start Day 2 without rework.