

# 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.*