- **Product Full Name:** WareFlow — Decision-Centric Warehouse Management System
- **Product Short Name:** WareFlow
- **Primary Phase-1 ICP:**
  Small-to-Mid-Sized 3PL and Contract Warehouses operating under client-specific SLAs
- **Primary Decision Owner Role (from Stage-4):**
  Warehouse Operations Manager / Admin

2️⃣ SCREEN INVENTORY (CANONICAL — NO DESIGN YET)

Functional names only.
Every screen has an entry and exit.
No orphan screens allowed.

Screen Name	Screen Type	Primary Role(s)	Entry From	Exit To
Warehouse Performance Dashboard	Informational	Ops Manager	Login	SLA Risk Review
SLA Risk Review	Review Screen	Ops Manager	Dashboard	Work Authorization
SLA-Binding Work Authorization	**Decision Screen**	Ops Manager	SLA Risk Review	Execution Board
Locked Work Execution Board	Execution Screen	Floor Supervisor	Authorization	Completion Log
Exception Handling Review	Review Screen	Ops Manager	Execution Board	Authorization
Billing Eligibility Review	Review Screen	Finance Manager	Authorization	Invoice Log
Invoice Generation Log	Execution Screen	Finance Manager	Billing Review	Audit Log
Warehouse Decision Audit Log	Audit / History	Admin, Ops	Any Screen	Read-Only

Client SLA Configuration	Configuration Screen	Tenant Admin	Admin Home	Dashboard
Warehouse Activity Timeline	Informational	All Roles	Dashboard	None

3️⃣ SCREEN-LEVEL INPUT / OUTPUT CONTRACTS

Screen: SLA-Binding Work Authorization

- **Screen Type:** Decision Screen
- **Primary Role:** Warehouse Operations Manager

A. Required Inputs

Input Name	Source	Mandatory	Notes
Order Batch ID	System State	Yes	Orders under decision
Client SLA Terms	Tenant Configuration	Yes	Contractual obligations
Pick/Pack Status	System State	Yes	Execution readiness
Labor Availability	System State	Yes	Capacity check
SLA Risk Indicator	AI (Advisory)	No	Informational only

B. User Actions

Action Name	Description	Creates / Changes
Approve SLA-Binding Work	Authorizes irreversible execution	Irreversible decision
Reject Authorization	Prevents execution	Compensating outcome
Request Override	Escalates authority	Draft request

C. Outputs Produced

Output Artifact	Trigger	Mutable?	Label
Work Authorization Record	Approve	No	**Irreversible**
SLA Commitment Snapshot	Approve	No	**Irreversible**
Billing Eligibility Flag	Approve	No	Commit
Rejection Record	Reject	No	Compensating
Audit Log Entry	Any Action	No	Immutable

D. Decision & Locking Behavior

- **Decision Screen:** ☑ Yes
- **Locks:**
    - Order batch
    - SLA terms at decision time
    - Decision owner identity
    - Timestamp
- **Cannot Be Edited:**
    - Authorization outcome
    - SLA snapshot
    - Approver identity
- **Overrides:**
    - Higher authority role only
    - Mandatory justification
    - Original decision remains immutable and visible

4️⃣ SCREEN FLOW CONNECTION SUMMARY

✅ Happy Path (Authoritative)

1. Ops Manager logs into **Warehouse Performance Dashboard**
2. SLA risks reviewed on **SLA Risk Review** screen
3. Manager commits decision on **SLA-Binding Work Authorization**
4. Execution lock generated
5. Supervisor executes tasks on **Locked Work Execution Board**
6. Finance validates charges on **Billing Eligibility Review**
7. Decision finalized in **Warehouse Decision Audit Log**

Final State:

- SLA met
- Costs justified
- Billing valid
- Full audit trail preserved

⚠️ Exception Path

- **Trigger:** Inventory shortfall or execution failure
- **System Response:**
    - Execution blocked
    - **Exception Handling Review** required
- **Final State:**
    - SLA breach explicitly acknowledged
    - Compensating decision recorded
    - Audit trail preserved

5️⃣ GLOBAL FIGMA → AI DESIGN INSTRUCTION BLOCK (MANDATORY)

This block must be reused verbatim in all design and AI prompts.

Design & Interaction Principles

- Enterprise-grade, decision-centric UI
- Evidence is always visible when decisions exist
- Draft vs Locked vs Overridden states are visually distinct
- No decorative UI without functional meaning
- No hidden or implicit system actions

Irreversible Action Design Rules

- No blind confirmation modals
- Users must always see:
    - What will lock
    - What cannot be undone
    - Who is accountable

6️⃣ SUPER-FEATURE DESIGN CONSTRAINTS (MANDATORY)

Multi-Tenant SaaS

- Tenant context visible: ☑ Yes
- Cross-tenant isolation enforced: ☑ Yes

Configurable SaaS

- Policies config-driven: ☑ Yes
- UI reflects configuration influence: ☑ Yes

AI Configurability

- AI signals clearly labeled as advisory: ☑ Yes
- AI ON/OFF does not break flows: ☑ Yes

Scalability Assumptions

- Lists assume 10,000+ records: ☑ Yes
- No fixed-size UI assumptions: ☑ Yes

7️⃣ FIGMA READINESS DECLARATION (MANDATORY)

We confirm that all screens, flows, inputs, outputs, AI behavior, SaaS assumptions, and scalability constraints are explicitly defined and safe for Figma and AI-assisted design. No design interpretation or product inference is required.

- **Team Representative Name:** Neel
- **Role:** Founder / Product Owner
- **Date:** 26-Dec-2025