



Enterprise Resource Planning

System Architecture Flow Document

Comprehensive architecture blueprint covering current modules, new enhancements, and implementation roadmap for the 2XG ERP system.

Version 2.0 | February 2026

Prepared for: 2XG Growth

Stack: React + Express + Supabase (PostgreSQL)

Deployment: Coolify (OVH Self-Hosted)

Table of Contents

1. Executive Summary	3
2. Current System Overview	3
2.1 Existing Modules (28 APIs)	3
2.2 Tech Stack	3
2.3 Current Data Flow	4
3. Gap Analysis: Current vs Required	4
4. Module 1: Enhanced Warehouse & Bin Management	5
5. Module 2: Serial Tracking & Auto-Yield	6
6. Module 3: Sales CRM + KYC Enhancement	7
7. Module 4: Stock Ordering & Discrepancy Flow	8
8. Module 5: Stock Count + Auto-Correction	9
9. Module 6: Issue Bin Workflow	10
10. Complete Data Flow (All Modules Connected)	11
11. Database Schema Changes	12
12. New API Endpoints	13
13. File Changes Summary	13
14. Implementation Roadmap	14

1. Executive Summary

The 2XG ERP system is a production-deployed monorepo application serving as the central business management platform for 2XG Growth. This document outlines the architecture for 6 new/enhanced modules that extend the current system to support **serial-level inventory tracking, advanced warehouse bin management, goods receipt with discrepancy handling, enhanced sales CRM with KYC, scheduled stock audits with auto-correction, and an Issue Bin lifecycle workflow.**

Key Principle: All 28 existing APIs and 48 existing pages remain untouched. New modules are added alongside existing ones, following the established Route → Controller → Service → Supabase pattern.

2. Current System Overview

2.1 Existing Modules (28 API Routes, 48 Pages, 55 Components)

Core Business Modules	Supporting Modules
<ul style="list-style-type: none"> Items / Inventory Management Purchase Orders + Bills Sales Orders + Invoices Payments Made / Received Vendor Credits Expenses + Categories Transfer Orders Delivery Challans 	<ul style="list-style-type: none"> Customer Management Vendor Management Bin Locations (basic) Stock Count (basic) POS Sessions Brands & Manufacturers Reports & AI Insights CRM / CARE / Logistics

2.2 Tech Stack

LAYER	TECHNOLOGY	DETAILS
Frontend	React 18 + Vite + TypeScript	Tailwind CSS, React Router, Axios, Lucide Icons
Backend	Express.js + TypeScript	28 route files, JWT auth, Helmet, Morgan, CORS
Database	PostgreSQL (Supabase)	Self-hosted, PostgREST gateway, Service Role Key (bypasses RLS)
Auth	Custom JWT	bcrypt passwords, 7-day expiry, web + mobile user support
Deployment	Coolify (OVH Server)	Docker-based PaaS, auto-deploy on push to main
URLs	Production	Frontend: erp.2xg.in Backend: api.erp.2xg.in

2.3 Current Data Flow



```
↓  
Response: { success: boolean, data?: T, error?: string }
```

3. Gap Analysis: Current vs Required

FEATURE	STATUS	CURRENT STATE	REQUIRED ENHANCEMENT
Items / Inventory	EXISTS	Quantity-based stock tracking (current_stock)	Per-unit serial tracking, assembly state
Bin Locations	ENHANCE	Basic bin CRUD with location_code, capacity	Bin categories (Electric/Gear/Kids/Issue/Box), state (Assembled/Saleable)
Transfer Orders	ENHANCE	Manual transfer between locations	Auto-generation from stock count discrepancy
Stock Count	ENHANCE	Basic counting interface	Scheduled (Mon/Wed/Fri), physical vs accounting, auto-correction
Purchase Orders	ENHANCE	Full PO CRUD with GST	Goods receipt linking, partial receipt status, shortage handling
Delivery Challans	ENHANCE	Manual DC creation	Auto-DC from reverse pick-up / self pick-up sales
Customers	ENHANCE	Basic CRUD with name, email, GSTIN	Full KYC, B2B/B2C type, pin code, alt mobile
Sales Orders	ENHANCE	Standard sales order flow	Exchange flow, accessory list, delivery type, salesperson assignment
Vendor Credits	ENHANCE	Manual credit note creation	Auto-trigger from goods receipt discrepancy
Serial Tracking	NEW	Does not exist	Per-unit serial numbers, full lifecycle history, auto-yield
Goods Receipt (GRN)	NEW	Does not exist	Receipt against PO, inspection, discrepancy (shortage/damage/mismatch)
Issue Bin Workflow	NEW	Does not exist	Damaged/returned item lifecycle: repair, replace, scrap, return-to-vendor

4. Module 1: Enhanced Warehouse & Bin Management

Type: Enhancement of existing module | **Affects:** bin_locations table, binLocations.service.ts, BinLocationsPage.tsx

4.1 Warehouse Hierarchy

```
WAREHOUSE HIERARCHY

Location (Godown / Store)
└─ Bin Category
    └─ Electric Bin      ← E-bikes, electric scooters
    └─ Gear Bin          ← Geared cycles/bikes
    └─ Non-Gear Bin     ← Single-speed cycles
    └─ Kids Bin          ← Children's cycles
    └─ Issue Bin         ← Damaged / returned items
    └─ Box Bin           ← Inbound unprocessed stock

Each Bin tracks:
• Assembly State: Assembled / Unassembled
• Saleability: Saleable / Non-Saleable
• Serial Items: Linked serial numbers
```

4.2 Database Changes (ALTER bin_locations)

COLUMN	TYPE	VALUES	PURPOSE
location_type	TEXT	godown, store	Physical location classification
bin_category	TEXT	electric, gear, non_gear, kids, issue, box	Product category this bin holds
assembly_state	TEXT	assembled, unassembled, na	Assembly tracking for bin contents
saleability	TEXT	saleable, non_saleable	Whether items in this bin can be sold

4.3 Internal Transfer Logic

```
STOCK MOVEMENT THROUGH BINS

Goods Receipt (Inbound)
↓
Box Bin (Unassembled, Non-Saleable)
↓ [Assembly Process]
Category Bin (Electric/Gear/Non-Gear/Kids)
(Assembled, Saleable)   ← Auto-Yield triggers here
↓
Available for Sale
↓ [If returned/damaged]
Issue Bin (Non-Saleable)
↓
Resolution: Repair / Replace / Scrap / Return to Vendor
```

5. Module 2: Serial Tracking & Auto-Yield

Type: New module | New Tables: serial_numbers, serial_history | New API: /api/serial-tracking

5.1 Serial Lifecycle Flow

```
SERIAL NUMBER LIFECYCLE

Item (SKU: GEAR-001)
├─ Serial #030
│   └─ Status: active / issued / returned / replaced
│   └─ Current Bin: Gear Bin (Store)
└─ History Timeline:
    └─ 2026-01-10 Inbound (I/B) → Box Bin
    └─ 2026-01-12 Assembled → Gear Bin (Store)
    └─ 2026-01-20 SOLD → Invoice #INV-00045
    └─ 2026-02-01 RETURNED → Issue Bin
    └─ 2026-02-02 Credit Note #CN-0012 issued
    └─ 2026-02-05 Replacement #030-R → Gear Bin

└─ Serial #028
    └─ Status: active (in stock, saleable)
```

5.2 New Tables

serial_numbers

COLUMN	TYPE
id	UUID (PK)
item_id	UUID → items
serial_no	TEXT UNIQUE
status	TEXT (active/issued/returned/replaced/scrapped)
current_bin_id	UUID → bin_locations
assembly_state	TEXT
saleability	TEXT
created_at	TIMESTAMP

serial_history

COLUMN	TYPE
id	UUID (PK)
serial_id	UUID → serial_numbers
event_type	TEXT
from_bin_id	UUID (nullable)
to_bin_id	UUID (nullable)
reference_type	TEXT (PO/SO/GRN/CN/TO)
reference_id	UUID
notes	TEXT
created_at	TIMESTAMP

5.3 Auto-Yield Logic

Auto-Yield Rule: When a serial item is moved from **Box Bin** to any **Category Bin** (Electric/Gear/Non-Gear/Kids), the system automatically sets `assembly_state = 'assembled'` and `saleability = 'saleable'`. This represents the physical assembly process being completed.

5.4 Event Types

EVENT	TRIGGER	EFFECT ON SERIAL
inbound	Goods Receipt completed	Serial created, placed in Box Bin
assembled	Transfer from Box Bin → Category Bin	Auto-yield: Assembled + Saleable
transferred	Transfer Order between bins	Updates current_bin_id
sold	Invoice/Sales Order completed	Status = sold, linked to invoice
returned	Customer return	Moves to Issue Bin
issued_cn	Credit Note generated	CN reference linked
replaced	Replacement unit received	New serial created, old marked replaced
scrapped	Item write-off	Status = scrapped, Non-Saleable

6. Module 3: Sales CRM + KYC Enhancement

Type: Enhancement of existing modules | **Affects:** customers table, sales_orders table, customers.service.ts, sales-orders.service.ts

6.1 Sales CRM KYC Flow

SALES CRM KYC CAPTURE (at point of sale)

```

Customer Details
└ Name, Phone, Email, Pin Code
└ Customer Type: B2B / B2C
|   └ B2B → GSTIN required, GST Tax Invoice
|   └ B2C → GSTIN optional, Retail Invoice
└ Alt Mobile No
└ Accessory List (items sold with main product)
└ Delivery Details:
    └ Delivery Date
    └ Self Pick-up?
    |   └ YES → Auto-generate Delivery Challan (D.C.)
    └ Reverse Pick-up?
    |   └ YES → Auto-generate D.C + assign delivery driver
    └ Exchange?
        └ YES → Salesperson enters exchange value
            → Old item → Issue Bin
            → Exchange value deducted from invoice

```

6.2 Database Changes

ALTER customers table

COLUMN	TYPE
customer_type	TEXT (b2b/b2c)
pin_code	TEXT
alt_phone	TEXT
kyc_completed	BOOLEAN

ALTER sales_orders table

COLUMN	TYPE
delivery_type	TEXT (self_pickup/delivery/reverse_pickup)
is_exchange	BOOLEAN
exchange_value	DECIMAL
exchange_item_desc	TEXT
salesperson_id	UUID
auto_dc_generated	BOOLEAN

NEW TABLE: sale_accessories

COLUMN	TYPE	PURPOSE
id	UUID (PK)	Primary key
sales_order_id	UUID → sales_orders	Parent sales order
item_id	UUID → items	Accessory item
item_name	TEXT	Denormalized name

quantity	INTEGER	Qty sold with main product
----------	---------	----------------------------

6.3 Auto-Trigger Logic

When delivery_type = 'reverse_pickup' or 'self_pickup':

→ sales-orders.service.ts auto-calls deliveryChallansService.create() and links the DC to the Sales Order.

When is_exchange = true:

→ Exchange value is deducted from total_amount on the generated invoice.

→ The exchanged old item is recorded into the Issue Bin with source_type = 'sales_order'.

7. Module 4: Stock Ordering & Discrepancy Flow (GRN)

Type: New module | New Tables: goods_receipts, goods_receipt_items | New API: /api/goods-receipts

7.1 Goods Receipt Flow

STOCK ORDERING → GOODS RECEIPT → DISCREPANCY HANDLING

PO Created (15 pcs ordered from Vendor)

↓

Expected Lead Time: 10 days

↓

Goods Receipt (GRN) created against PO

- └ Received: 10 pcs (physically arrived)
- └ Shortage: 5 pcs (not delivered)
- └ Damaged: 1 pc (arrived damaged)
- └ Mismatch: 3 pcs (wrong item/spec)

SYSTEM AUTO-ACTIONS:

- └ 6 Good pcs → Box Bin (Inbound) + create serial numbers
- └ 1 Damaged pc → Issue Bin + serial marked 'issued'
- └ 3 Mismatch pcs → Issue Bin + serial marked 'issued'
- └ Auto Credit Note generated for 4 pcs (damage + mismatch)
- └ PO Status updated to 'partial_received'
- └ Option: Re-order shortage OR adjust PO

PO STATUS FLOW:

draft → sent → partial_received → received → closed
↓
discrepancy_flagged

7.2 New Tables

goods_receipts

COLUMN	TYPE
id	UUID (PK)
purchase_order_id	UUID → purchase_orders
grn_number	TEXT (auto-generated)
receipt_date	DATE
received_by	UUID → users
status	TEXT
notes	TEXT
created_at	TIMESTAMP

goods_receipt_items

COLUMN	TYPE
id	UUID (PK)
goods_receipt_id	UUID → goods_receipts
po_item_id	UUID → purchase_order_items
item_id	UUID → items
ordered_qty	INTEGER
received_qty	INTEGER
damaged_qty	INTEGER
mismatch_qty	INTEGER
shortage_qty	INTEGER (auto-calc)
destination_bin_id	UUID → bin_locations
issue_bin_id	UUID → bin_locations

7.3 Completion Trigger Logic

ON GOODS RECEIPT COMPLETION:

1. Good items → `items.current_stock += received_qty`
2. Good items → `Create serial_numbers (status: active, bin: Box Bin)`
3. Good items → `Create serial_history entries (event: inbound)`
4. Damaged/Mismatch → `Move to Issue Bin (create issue_bin_entries)`
5. IF damaged + mismatch > 0 → `Auto-create Vendor Credit (CN)`
6. IF shortage > 0 → `PO status = 'partial_received'`
7. IF all items received → `PO status = 'received'`

8. Module 5: Enhanced Stock Count + Auto-Correction

Type: Enhancement of existing module | **Affects:** Stock count tables, stockCount.service.ts, StockCountPage.tsx

8.1 Stock Count Audit Flow

STOCK COUNT / AUDIT WORKFLOW

Schedule: Monday / Wednesday / Friday (configurable)

1. **Create Stock Count**
 - |– Select: Specific bin OR full warehouse
 - |– System snapshots current accounting_stock
2. **Physical Count**
 - |– Staff enters actual qty per item
 - |– If serial-tracked: scan/enter serial numbers
3. **System Compare:**
 - |– Accounting Stock (DB current_stock) vs Physical Stock (counted)
4. **Discrepancy Actions:**
 - |– Surplus (+3 pcs)
 - |– Auto-generate Transfer Order Draft
(from "Unknown Source" to correct bin)
 - |– Shortage (-2 pcs)
 - |– Auto-generate Transfer Order Draft (if likely misplaced)
 - |– OR Adjustment Entry (if confirmed loss)
 - |– Match (0)
 - |– Mark as verified ✓
5. **Manager Approval:** Reviews auto-generated drafts
6. **Execute:** Approved drafts update stock

STATUS FLOW:

scheduled → in_progress → pending_review → approved → closed

8.2 Database Enhancements

NEW COLUMN (ON STOCK COUNT TABLES)	TYPE	PURPOSE
scheduled_date	DATE	Planned count date
schedule_day	TEXT	monday / wednesday / friday
bin_id	UUID	Which bin is being counted
accounting_stock	INTEGER	System qty snapshot at count time
physical_stock	INTEGER	Actual counted qty
discrepancy_qty	INTEGER	physical - accounting (auto-calculated)
auto_action	TEXT	transfer_order_draft / adjustment / none
auto_reference_id	UUID	FK to auto-generated TO or adjustment

9. Module 6: Issue Bin Workflow

Type: New module | New Table: issue_bin_entries | New API: /api/issue-bin

9.1 Issue Bin Lifecycle

ISSUE BIN LIFECYCLE

```

Item enters Issue Bin when:
└ Customer Return      (from Sales Order)
└ Damaged on Receipt   (from GRN inspection)
└ Mismatch on Receipt  (from GRN - wrong item/spec)
├ Failed Quality Check (from Stock Count)

Item in Issue Bin:
└ Status: pending_review
└ Linked to: Credit Note / Return Order / GRN
├ Resolution Options:
    └ "Repairable"
        ├ Send to assembly → back to Category Bin (Saleable)
    └ "Replace"
        ├ Wait for vendor replacement
            └ On arrival: New unit → correct Bin (Saleable)
            └ Old unit → Scrap or return to vendor
    └ "Scrap"
        ├ Mark Non-Saleable, write-off from inventory
    └ "Return to Vendor"
        ├ Link to Vendor Credit, schedule return pickup

```

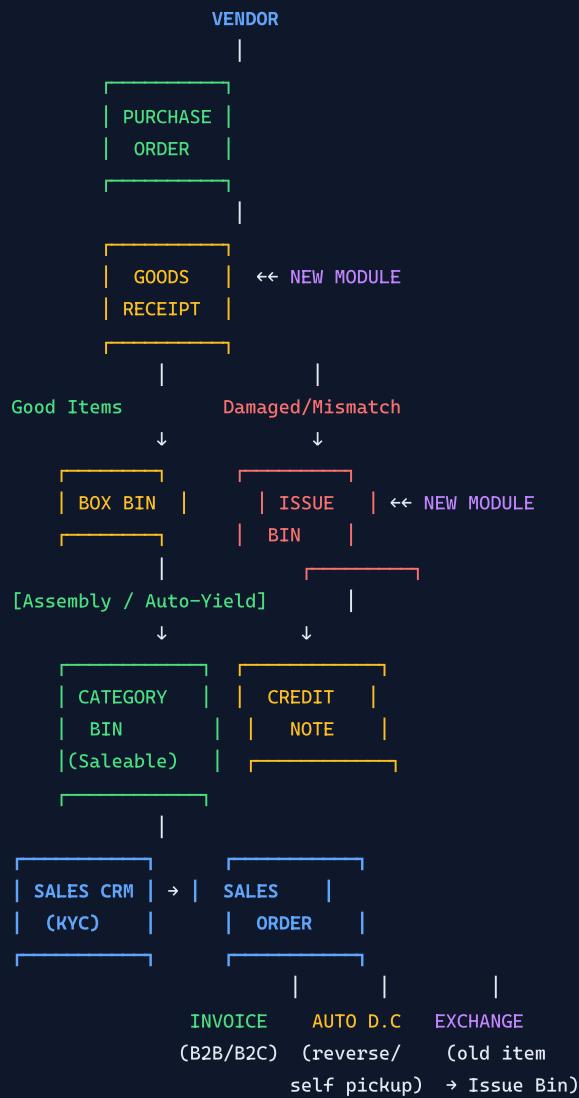
IMPORTANT: Issue Bin items are NEVER available for sale

9.2 issue_bin_entries Table

COLUMN	TYPE	PURPOSE
id	UUID (PK)	Primary key
serial_id	UUID → serial_numbers	If serial tracked (nullable)
item_id	UUID → items	Which item
quantity	INTEGER	Qty in issue bin (if not serial tracked)
bin_id	UUID → bin_locations	Which Issue Bin
reason	TEXT	customer_return / damaged_receipt / mismatch / quality_fail
source_type	TEXT	sales_order / goods_receipt / stock_count
source_id	UUID	FK to source document
resolution	TEXT	pending / repairable / replace / scrap / return_to_vendor
credit_note_id	UUID	FK to vendor_credits (if CN issued)
replacement_serial_id	UUID	FK to replacement serial number

resolved_at	TIMESTAMP	When issue was resolved
resolved_by	UUID → users	Who resolved it
notes	TEXT	Resolution notes
created_at	TIMESTAMP	When item entered Issue Bin

10. Complete Data Flow (All Modules Connected)



SERIAL TRACKING (across ALL flows)
#030: I/B → Box → Assembled → Gear Bin
→ Sold → Returned → Issue → Replaced

11. Database Schema Changes Summary

11.1 New Tables (4)

TABLE	PURPOSE	KEY RELATIONSHIPS
serial_numbers	Per-unit tracking with status and location	items, bin_locations
serial_history	Complete audit trail for each serial	serial_numbers, bin_locations
goods_receipts + goods_receipt_items	Receipt verification against POs	purchase_orders, purchase_order_items, items
issue_bin_entries	Damaged/returned item lifecycle	serial_numbers, items, bin_locations, vendor_credits
sale_accessories	Accessories sold with main product	sales_orders, items

11.2 Altered Tables (4)

TABLE	NEW COLUMNS
bin_locations	location_type, bin_category, assembly_state, saleability
customers	customer_type, pin_code, alt_phone, kyc_completed
sales_orders	delivery_type, is_exchange, exchange_value, exchange_item_desc, salesperson_id, auto_dc_generated
stock_counts / stock_count_items	scheduled_date, schedule_day, bin_id, accounting_stock, physical_stock, discrepancy_qty, auto_action, auto_reference_id

11.3 Updated PO Status Values

CURRENT STATUSES	NEW STATUSES ADDED
draft, sent, received, closed	partial_received, discrepancy_flagged

IMPORTANT: After ALL DDL changes, run NOTIFY pgrst, 'reload schema'; to refresh the PostgREST cache. All new columns must use snake_case naming. Never rename existing columns.

12. New API Endpoints

ENDPOINT	METHOD	PURPOSE
/api/serial-tracking		
/	GET	List all serials (filter by item, bin, status)
/:id	GET	Serial detail + full history timeline
/	POST	Register new serial number
/:id/move	PUT	Move serial between bins (triggers auto-yield)
/:id/history	GET	Serial event timeline

/api/goods-receipts

/	GET	List all GRNs (filter by PO, date, status)
/:id	GET	GRN detail with items and discrepancies
/	POST	Create GRN against a Purchase Order
/:id	PUT	Update GRN (inspection results)
/:id/complete	POST	Complete receipt (triggers all auto-actions)

/api/issue-bin

/	GET	List all issue bin entries (filter by reason, resolution)
/:id	GET	Issue entry detail with linked documents
/	POST	Add item to issue bin
/:id/resolve	PUT	Resolve issue (repair/replace/scrap/return)

13. File Changes Summary

13.1 New Files to Create (9 backend + 10 frontend = 19 files)

MODULE	BACKEND FILES	FRONTEND FILES
Serial Tracking	services/serial-tracking.service.ts controllers/serial-tracking.controller.ts routes/serial-tracking.routes.ts	services/serial-tracking.service.ts pages/SerialTrackingPage.tsx pages/SerialDetailPage.tsx components/serial-tracking/SerialHistoryTimeline.tsx
Goods Receipt	services/goods-receipt.service.ts controllers/goods-receipt.controller.ts routes/goods-receipt.routes.ts	services/goods-receipt.service.ts pages/GoodsReceiptPage.tsx pages/GoodsReceiptDetailPage.tsx components/goods-receipt/NewGoodsReceiptForm.tsx
Issue Bin	services/issue-bin.service.ts controllers/issue-bin.controller.ts routes/issue-bin.routes.ts	services/issue-bin.service.ts pages/IssueBinPage.tsx components/issue-bin/ResolveIssueModal.tsx

13.2 Existing Files to Modify (9 files)

FILE	CHANGES REQUIRED
backend/src/ server.ts	Register 3 new route prefixes: /api/serial-tracking, /api/goods-receipts, /api/issue-bin
frontend/src/ App.tsx	Add ~12 new routes for Serial, GRN, and Issue Bin pages
frontend/src/components/layout/ Sidebar.tsx	Add navigation items: Serial Tracking, Goods Receipt, Issue Bin
backend/src/services/ binLocations.service.ts	Add filters by bin_category, assembly_state, saleability
backend/src/services/ customers.service.ts	Handle new KYC fields (customer_type, pin_code, alt_phone)
backend/src/services/ sales-orders.service.ts	Add exchange logic, delivery_type, auto-DC trigger
backend/src/services/ purchase-orders.service.ts	Add partial_received / discrepancy_flagged statuses, GRN linking
backend/src/services/ items.service.ts	Link serial numbers to items, assembly state awareness
frontend/src/services/ stockCount.service.ts	Add scheduling, auto-correction, discrepancy APIs

14. Implementation Roadmap

Each phase can be deployed independently without breaking production. Dependencies flow downward.

Phase 1 Foundation

Database Foundation (No dependencies on other new modules)

- 1a. ALTER bin_locations table — add location_type, bin_category, assembly_state, saleability columns
- 1b. CREATE serial_numbers + serial_history tables
- 1c. ALTER customers table — add customer_type, pin_code, alt_phone, kyc_completed columns
- 1d. Run NOTIFY pgrst, 'reload schema';

Phase 2 Core Flows

Core New Workflows (Depends on Phase 1 tables)

- 2a. Build Goods Receipt (GRN) module — CREATE tables, backend service/controller/routes, frontend pages
- 2b. Build Issue Bin workflow — CREATE table, backend service/controller/routes, frontend pages + ResolvedIssueModal
- 2c. Build Serial Tracking module — backend service/controller/routes, frontend pages + SerialHistoryTimeline
- 2d. Implement Auto-Yield logic in serial tracking service (Box Bin → Category Bin = assembled + saleable)

Phase 3 Business Logic

Business Logic Integration (Depends on Phase 2 modules)

- 3a. Sales CRM KYC flow — enhance customer forms with B2B/B2C, accessory list
- 3b. GRN discrepancy handling — auto Credit Note, auto Issue Bin entry, PO status updates
- 3c. Exchange flow in Sales Orders — salesperson valuation, old item → Issue Bin, invoice adjustment
- 3d. Auto-DC generation — trigger DC from reverse/self pickup sales orders

Phase 4 Automation

Scheduled Automation (Depends on Phase 3 integrations)

- 4a. Stock Count scheduling — Mon/Wed/Fri auto-creation, physical vs accounting comparison
- 4b. Stock Count auto-correction — auto Transfer Order Draft / Adjustment Entry generation
- 4c. Serial History Timeline UI — visual lifecycle display on item detail pages
- 4d. Manager approval workflow for auto-generated drafts (TO, adjustments)

14.1 Phase Dependency Graph

IMPLEMENTATION DEPENDENCY FLOW

Phase 1 (Foundation)

- └ 1a. Bin table columns
- └ 1b. Serial tables
- └ 1c. Customer KYC columns
- ├ 1d. PostgREST reload
 - |
 - ↓

Phase 2 (Core Workflows) – depends on Phase 1 tables

- └ 2a. GRN module (needs bins)
- └ 2b. Issue Bin module (needs bins + serials)
- └ 2c. Serial Tracking (needs serial tables)
- ├ 2d. Auto-Yield logic (needs bins + serials)
 - |
 - ↓

Phase 3 (Business Logic) – depends on Phase 2 modules

- └ 3a. Sales CRM KYC (needs customer columns)
- └ 3b. GRN discrepancy (needs GRN + Issue Bin)
- └ 3c. Exchange flow (needs Issue Bin + Sales Orders)
- ├ 3d. Auto-DC (needs Sales Orders + DC service)
 - |
 - ↓

```
|  
↓  
Phase 4 (Automation) – depends on Phase 3 integrations  
└ 4a. Stock Count scheduling  
└ 4b. Auto-correction  
└ 4c. Serial Timeline UI  
└ 4d. Approval workflows
```

Deployment Note: Each phase is independently deployable. Push to `main` branch after each phase passes `npm run build` in both `/backend` and `/frontend`. Coolify auto-deploys on push.



Enterprise Resource Planning

Architecture Flow Document v2.0

Modules: 6 New/Enhanced

New Tables: 5 | Altered Tables: 4

New API Endpoints: 14 | New Files: 19

Modified Files: 9

Prepared for 2XG Growth | February 2026
Stack: React + Express + Supabase (PostgreSQL)
Deployed via Coolify on OVH Self-Hosted Infrastructure