

Supply Chain & Inventory Management System

Project Details

Project Name: Supply Chain & Inventory Management System

Objective: Improve inventory visibility and automate Purchase Order (PO) generation to reduce stockouts and delays in order fulfillment, with real-time SKU insights for better decision-making through Unicommerce integration.

Time Period: 20 Nov 24 - 18 Dec 2024

Team Size:

- Product Manager
 - UI Designer
 - Tech Team
 - Customer Support team
 - Ops Team
 - Finance Team
 - Warehouse Team
 - QA Testers (PM)
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Roles and Responsibilities

- Managed the product roadmap and maintained a feature backlog.
 - Collaborated with stakeholders from operations, finance, and development teams to define requirements.
 - Conducted market and user research to identify key inefficiencies in inventory and PO processes.
 - Prioritized features and enhancements based on business objectives and operational feedback.
 - Monitored system performance metrics to track improvements and ensure SLA compliance.
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Key Challenges & Solutions

- **Challenge:** Limited visibility of inventory across sales channels leading to stockouts.
Solution: Developed a centralized dashboard integrating with Unicommerce for real-time SKU insights.
 - **Challenge:** Manual and error-prone PO generation processes.
Solution: Automated PO generation with pre-filled fields, PDF creation, and dynamic approval workflows.
 - **Challenge:** Delayed PO approvals causing fulfillment bottlenecks.
Solution: Implemented SLA-based alert systems for timely PO approval and processing.
 - **Challenge:** Lack of communication with artisans for PO acknowledgment and delivery timelines.
Solution: Integrated WhatsApp and email notifications for real-time communication with artisans.
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Features Delivered

- Dashboard for SKU Visibility: Real-time inventory tracking, sales analysis, and forecasting.
 - PO Generation Dashboard: Automated PO creation with product details, cost calculations, and approval workflows.
 - Alert & Notification System: SLA-based alerts for PO approvals, payment processing, and goods receipt tracking.
 - Role-Based Access Control (RBAC): Controlled access for admin, user, and finance roles.
 - PO Lifecycle Management: Automated tracking of PO creation, approval, artisan communication, and payment processing.
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Metrics & Results (Impact Analysis)

- Reduction in Stockouts: Achieved a <5% stockout rate per month.
 - Faster PO Approval Time: Reduced average approval time to <24 hours.
 - Improved Inventory Forecast Accuracy: Attained >90% accuracy in demand forecasting.
 - SLA Breach Reduction: Decreased breaches by 80%, enhancing operational efficiency.
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Tools & Technologies Used

- Product Management: Clickup,
- Data Analysis: Google Sheets

- Backend Integration: Unicommerce APIs, Database, Shopify APIs,WhatsApp Business API, Email API
 - Design Collaboration: Figma
 - Automation & Communication: PDF generation tools, role-based alert system
 - Ops Portal
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Stakeholder Engagement

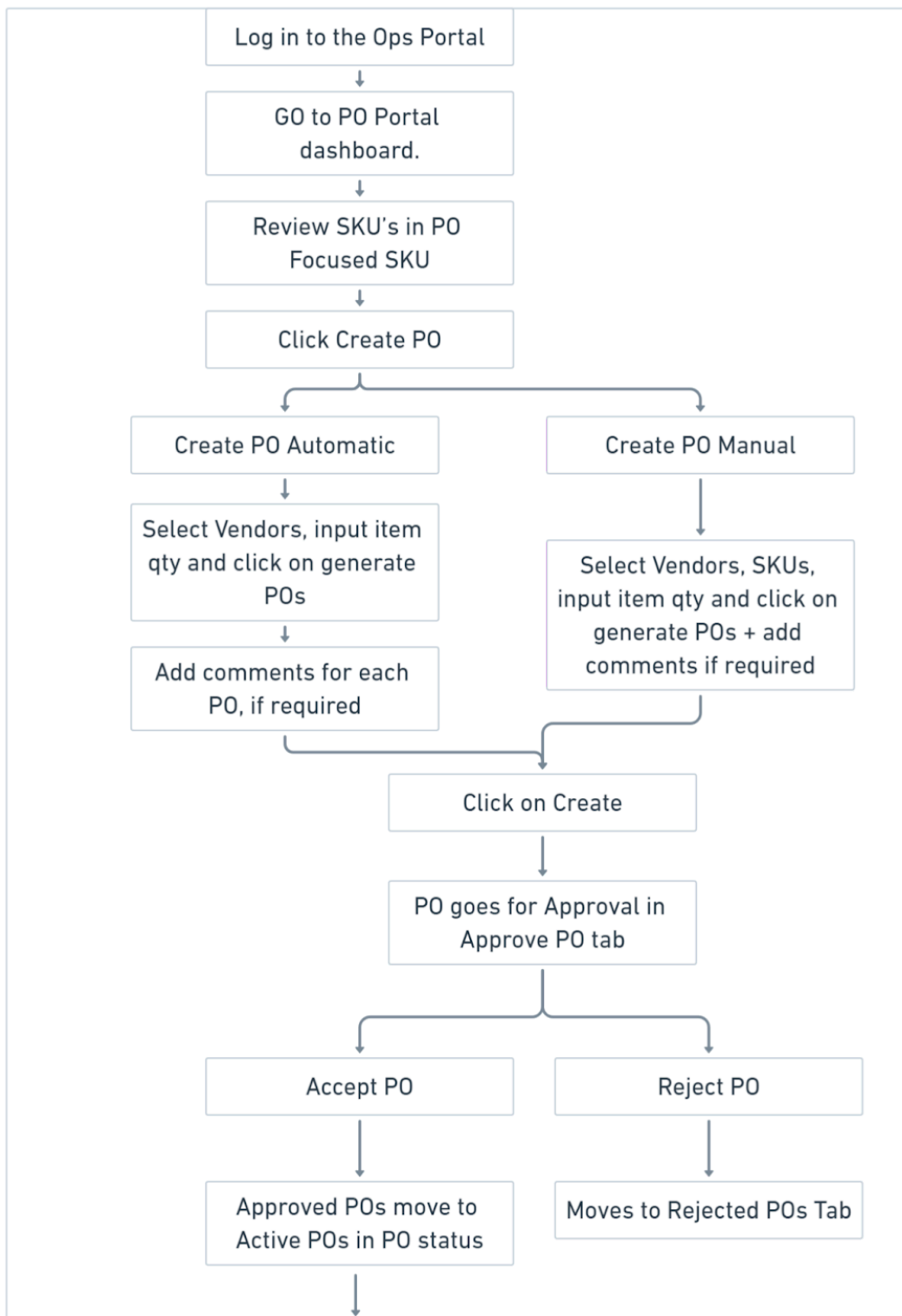
- Conducted regular sync-ups with cross-functional teams to gather feedback and align on development priorities.
 - Collaborated closely with operations and finance teams to design and validate the PO lifecycle process.
 - Secured management buy-in for automation initiatives through data-backed presentations.
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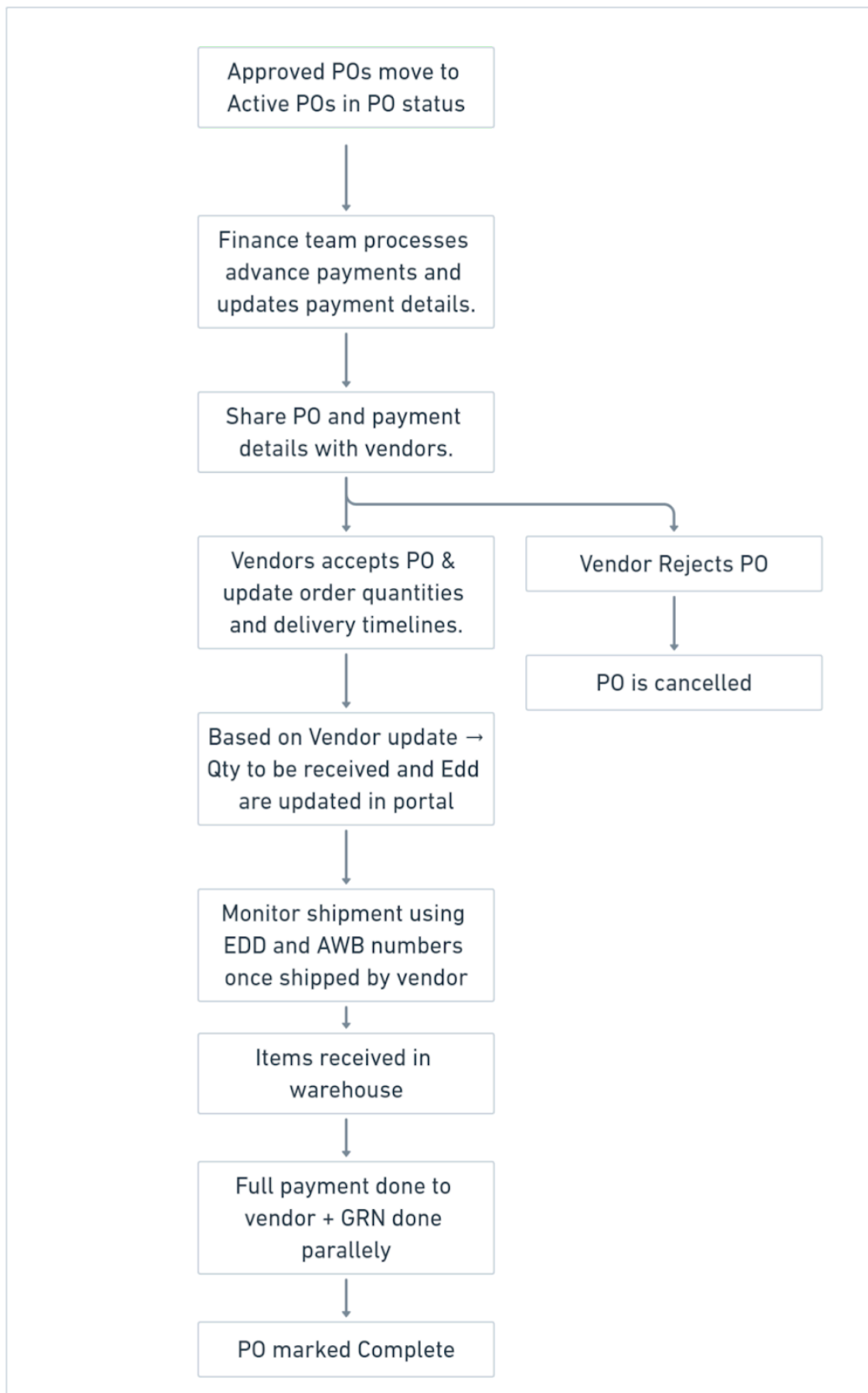
Learnings & Key Takeaways

- Automation Reduces Errors: Automating PO processes significantly reduced manual errors and improved efficiency.
 - Real-Time Visibility Drives Decisions: Providing real-time SKU data enabled proactive decision-making.
 - Effective Communication is Key: Integration of communication channels improved collaboration with artisans and internal stakeholders.
 - Stakeholder Collaboration Enhances Adoption: Early engagement and feedback loops ensured smooth adoption of new features.
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Supporting Visuals

Workflow





Dashboard

Approve PO

Pending PO

Rejected POs

PO Focused SKU

LIT SKU Fortnight

Create PO Automatic

Create PO Manual

Fetch POs

Purchase Orders | Status

Export PO SKU Level

Export PO Level

Active POs

Active POs

Pending POs

Vendor Name	Active PO count (Total: 113)	POs
Bright light Ventures	1	852683
P B TEXTILE	1	1500136
AMEEN D HANDICRAFT	4	878048, 1500260, 1500199, 1500298
Alrehmn International	1	1500263
BALAJI ARTS	2	1500229, 1500276
BANDARU VENKATESHWARLU	1	1500292
Chizami weaves - Home decor	3	1500278, 1500296, 1500250

Search PO By

Status

PO Number : 805027

Download

Upload Invoice

PO + TAT Acknowledged

Add AWB

Nema

Delivery : 2024-12-07

Vendor Code: PT-52

Vendor Details: [REDACTED]

Created At: [REDACTED]

Approved By: [REDACTED]

Approved At: [REDACTED]

Total PO Price: ₹[REDACTED]

Amount Paid: ₹0.00

Finance Status No Advance Payment

Add Finance Details

Item SKU	Item Name	Quantity	Item Price	Expected Quantity					
PT-A-8067-HS	Pure Cotton Hand Towel Teal	Ordered 600	Expected Quantity 600	GRN Completed 0	₹68.25	Quantity	EDD	Received	
						472	2024-11-07	<div></div>	<div></div>
						4	2024-12-31	<div></div>	<div></div>
						120	2025-01-28	<div></div>	<div></div>
						4	2025-02-08	<div></div>	<div></div>
						+			
						Quantity	EDD	Received	
						4	2024-12-31	<div></div>	<div></div>







All Cha...

unicomSKU

Search...

All Products

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Image	Name ↑	unicommerceSKU	ProcurementType	Cost Price	Available Inventory	product Type	sold Qty	pending OrderItems
	Amber Pure Handwoven Ombre Pashmina Stole - Length: 78.7...	PT-AM-S-1256-HS	Non-Focus	-	-	SIMPLE	-	-
	Applique Cutwork Cotton Double Bed Cover in White...	PT-AP-2813-HS	LIT	2730	17	SIMPLE	2	-
	Applique Work Cotton Cushion Cover in Off-White (Set of...	PT-AP-2729-HS	LIT	168	33	SIMPLE	1	-
	Applique Work Cotton Cushion Cover in Off-White (Set of...	PT-AP-C-2758-HS_NEW	LIT	336	16	BUNDLE	4	-
Image	Name	mavenSku	procurementType	costPrice	Inventory	Multiplier	PendingLineItemQty	
	Applique Work Cotton Cushion Cover in Off-White (Set of 1/2/4) 16 x 16 inches [...	PT-AP-2729-HS	LIT	168	33	2	-	
	Apricot Rust Cotton Door Curtain Length 7ft Maroon	PT-A-8221-HS	LIT	577	14	SIMPLE	2	1

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