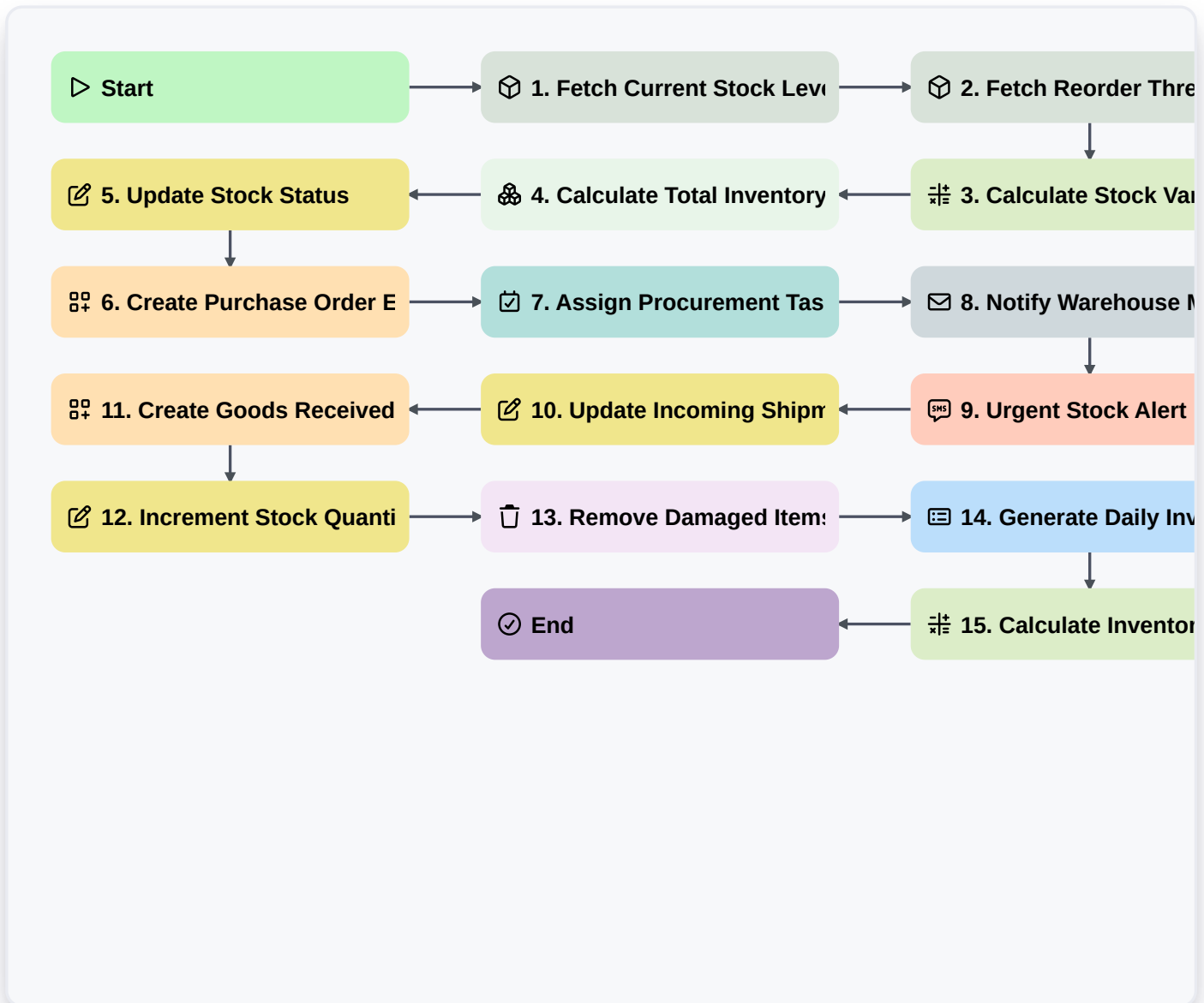


# Real-Time Inventory Tracking Workflow



## Start

Start of the Workflow/Process.

## 1. Fetch Current Stock Levels

Retrieve all active entries from the Inventory Data Model to check current quantities.

## 2. Fetch Reorder Thresholds

Retrieve the minimum stock level settings for each SKU to identify items needing replenishment.

## 3. Calculate Stock Variance

Subtract Current Stock Level from Reorder Threshold to determine the deficit amount.

## 4. Calculate Total Inventory Value

Sum the (Unit Price \* Quantity) for all entries in the inventory data model.

## 5. Update Stock Status

Update the 'Status' field of an item to 'Low Stock' or 'Out of Stock' based on calculated variance.

## 6. Create Purchase Order Entry

Generate a new entry in the Purchase Order data model when stock falls below threshold.



### **7. Assign Procurement Task**

Create a task for the Purchasing Manager to review and approve the new Purchase Order.

### **8. Notify Warehouse Manager**

Send an email alert to the Warehouse Manager when a stock discrepancy is detected.

### **9. Urgent Stock Alert**

Send an SMS to the Operations Head if a critical 'Zero Stock' event occurs for a high-priority SKU.

### **10. Update Incoming Shipment Date**

Update the 'Expected Delivery' field in the Purchase Order entry once the vendor confirms.

### **11. Create Goods Received Note**

Create a new entry in the Receiving Log when physical stock arrives at the warehouse.

### **12. Increment Stock Quantity**

Update the 'Quantity on Hand' in the Inventory Data Model following a successful receipt.

### **13. Remove Damaged Items**

Delete or flag entries for removal from active inventory if they are marked as 'Unusable' during inspection.

### **14. Generate Daily Inventory Summary**

Create a daily PDF report summarizing total stock value, low stock alerts, and recent arrivals.

### **15. Calculate Inventory Turnover Ratio**

Execute formula to calculate the turnover ratio based on Cost of Goods Sold and Average Inventory.

### **End**

End of the Workflow/Process.