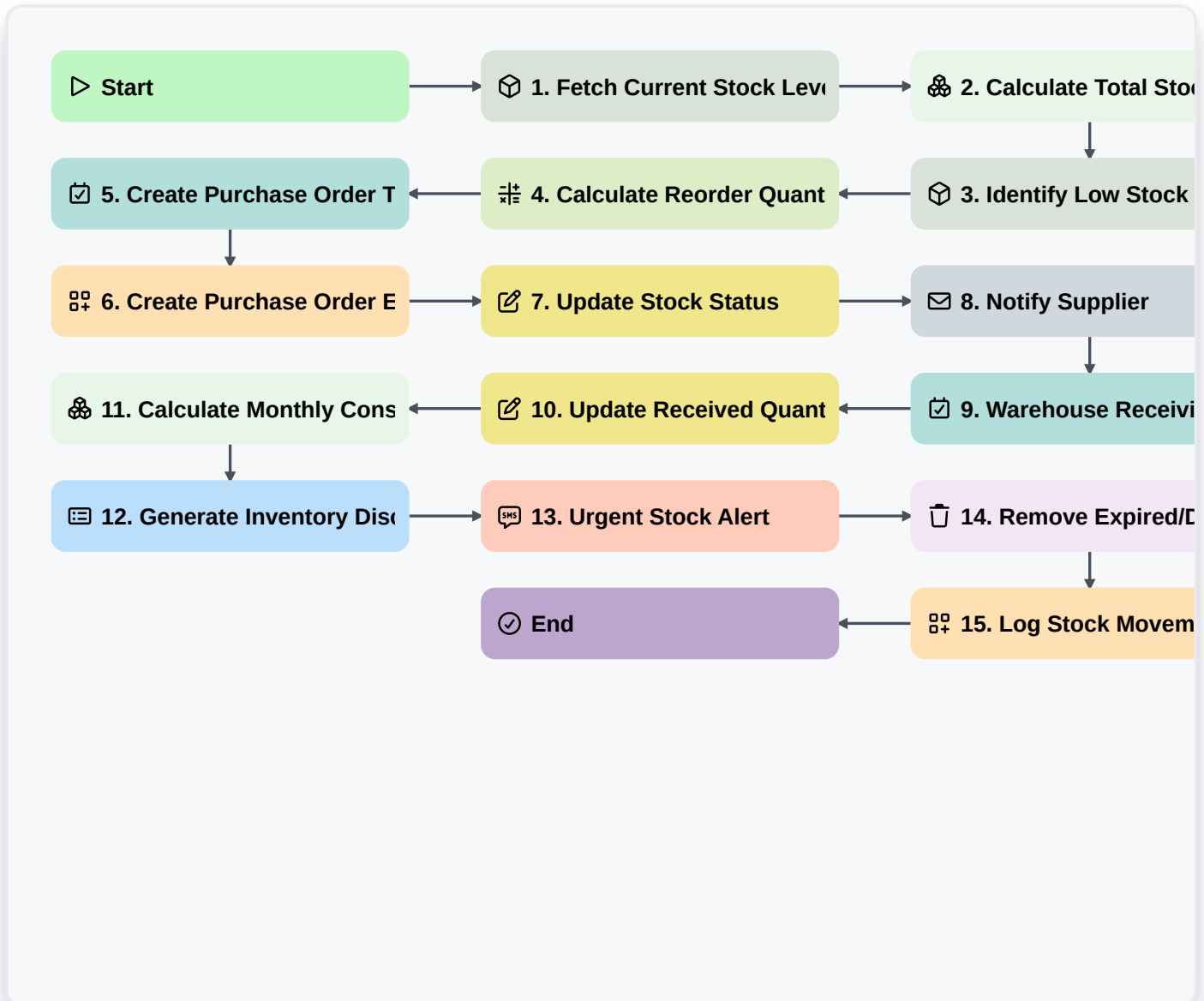


Farm Inventory And Stock Level Management Process



▶ Start

Start of the Workflow/Process.

📦 1. Fetch Current Stock Levels

Retrieve all active entries from the 'Inventory Items' data model to check current quantities.

🧮 2. Calculate Total Stock Value

Sum the 'Unit Price' * 'Quantity' for all items in the inventory to get total inventory valuation.

📦 3. Identify Low Stock Items

Filter the 'Inventory Items' data model to find entries where 'Current Quantity' is less than or equal to 'Reorder Point'.

🧮 4. Calculate Reorder Quantity

Calculate the difference between 'Target Stock Level' and 'Current Quantity' to determine how much to order.

📋 5. Create Purchase Order Task

Assign a task to the Procurement Manager to initiate a purchase for identified low-stock items.



6. Create Purchase Order Entry

Generate a new entry in the 'Purchase Orders' data model for the requested supplies.

7. Update Stock Status

Update the 'Status' field of the inventory item to 'Restocking' once a purchase order is created.

8. Notify Supplier

Send an email to the vendor's email address found in the 'Supplier' data model with the order details.

9. Warehouse Receiving Task

Create a task for the Warehouse Clerk to verify physical goods upon delivery.

10. Update Received Quantities

Update the 'Current Quantity' in the 'Inventory Items' data model after physical verification.

11. Calculate Monthly Consumption Rate

Aggregate usage data from 'Stock Movement' entries to find the average usage per month.

12. Generate Inventory Discrepancy Report

Create a report comparing 'System Stock Level' vs 'Physical Count' results from the audit task.

13. Urgent Stock Alert

Send an SMS to the Farm Owner if a critical item (e.g., essential feed or medicine) hits zero stock.

14. Remove Expired/Damaged Items

Delete or archive entries from the 'Inventory Items' data model that are marked as unusable/expired.

15. Log Stock Movement

Create an entry in the 'Stock Movement Log' whenever an item is added or removed from the inventory.

End

End of the Workflow/Process.