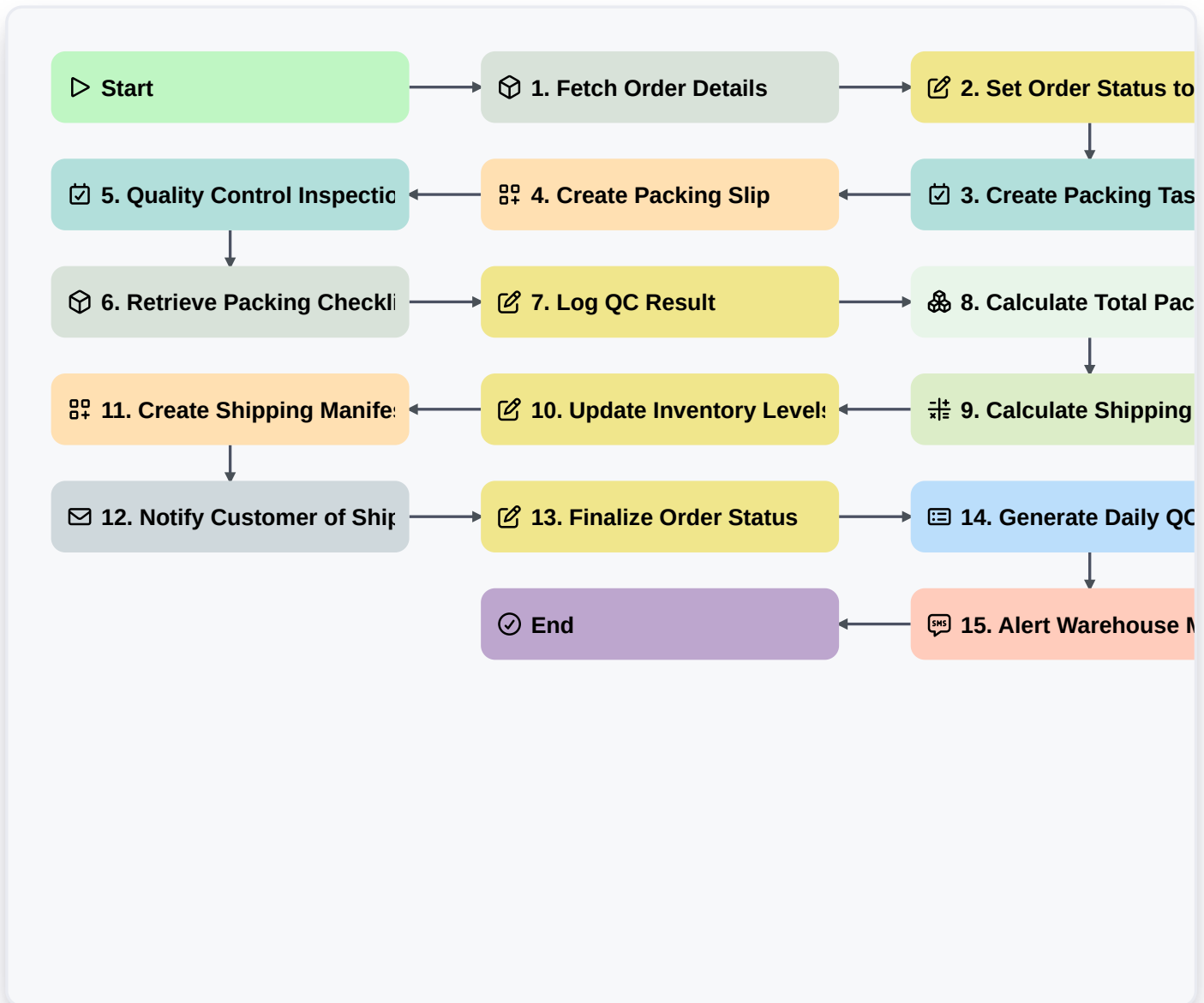


Packing And Quality Control Process



Start

Start of the Workflow/Process.

1. Fetch Order Details

Retrieve the specific Order information and item list from the Orders data model to begin the packing process.

2. Set Order Status to 'Packing'

Update the status of the retrieved Order entry to 'In Progress - Packing' to prevent duplicate processing.

3. Create Packing Task

Assign a task to the Warehouse Operator to begin picking and packing items according to the order list.

4. Create Packing Slip

Generate a new entry in the Packing Slips data model, linked to the current Order.

5. Quality Control Inspection Task

Once packing is marked complete, create a task for the QC Specialist to verify item accuracy and packaging integrity.

6. Retrieve Packing Checklist

Fetch the mandatory quality checklist items to be presented to the QC Specialist.



7. Log QC Result

Update the Packing Slip entry with the QC Pass/Fail result and any recorded discrepancies.

8. Calculate Total Package Weight

Aggregate the weights of all individual items in the order to determine the total shipping weight.

9. Calculate Shipping Dimension Volume

Calculate the total volume ($L * W * H$) to determine the appropriate box size for the order.

10. Update Inventory Levels

Subtract the packed quantities from the Stock levels in the Inventory data model.

11. Create Shipping Manifest Entry

Create a new entry in the Shipping Manifest data model for the completed package.

12. Notify Customer of Shipment

Send an automated email to the customer's email address with the tracking number and order summary.

13. Finalize Order Status

Update the original Order entry status to 'Shipped'.

14. Generate Daily QC Error Report

Create a report summarizing all QC failures and common error types found during the shift.

15. Alert Warehouse Manager of Critical Error

Send an SMS alert to the Warehouse Manager if a 'High Value' item is flagged as damaged during QC.

End

End of the Workflow/Process.