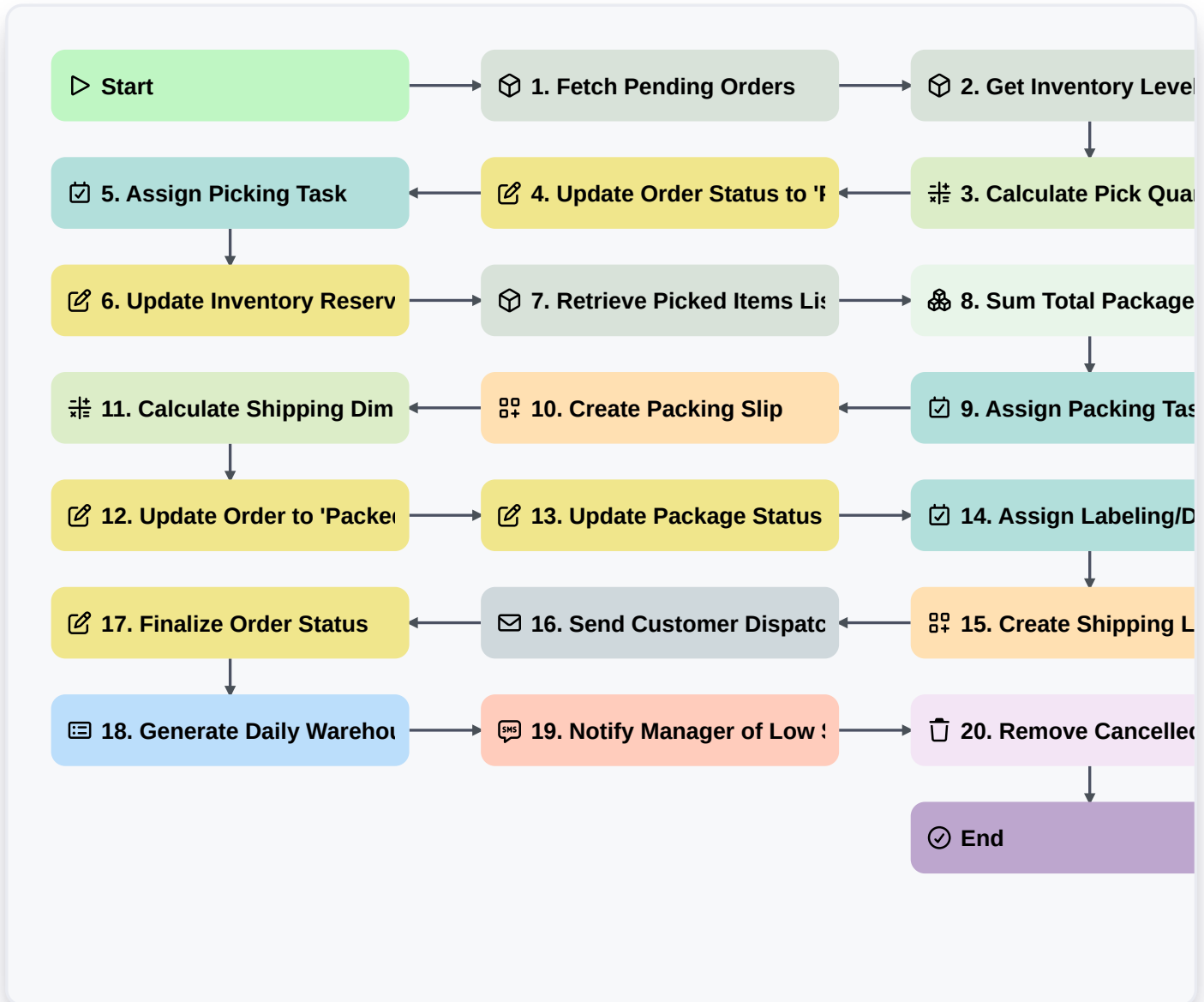


Warehouse Picking And Packing Workflow



▷ Start

Start of the Workflow/Process.

📦 1. Fetch Pending Orders

Retrieve all orders from the Order Data Model that are in 'Ready to Pick' status.

📦 2. Get Inventory Levels

Check current stock levels in the Inventory Data Model for the items listed in the order.

⚖️ 3. Calculate Pick Quantity

Compare requested order quantity against available inventory to determine if the full order can be fulfilled.

✍️ 4. Update Order Status to 'Picking'

Change the status of the selected order entries to 'Picking' to prevent duplicate picking.

📋 5. Assign Picking Task

Create a new task assigned to the Warehouse Picker containing the pick list details.

✍️ 6. Update Inventory Reservation

Reduce the 'Available Stock' property in the Inventory Data Model for the items being picked.



7. Retrieve Picked Items List

Fetch the list of items and quantities marked as 'scanned' by the picker.

8. Sum Total Package Weight

Aggregate the weight property of all items in the current pick to determine packaging requirements.

9. Assign Packing Task

Create a task for the Packing Station operator once picking is confirmed complete.

10. Create Packing Slip

Generate a new entry in the Packing Slips Data Model containing order details and itemized lists.

11. Calculate Shipping Dimensions

Calculate the total volume/dimensions of the box based on the aggregated item sizes.

12. Update Order to 'Packed'

Update the Order Data Model status to 'Packed' and link the Packing Slip ID.

13. Update Package Status

Update the specific package entry to reflect it is ready for labeling.

14. Assign Labeling/Dispatch Task

Create a task to print shipping labels and move the package to the dispatch area.

15. Create Shipping Label Data

Create an entry in the Logistics Data Model containing tracking numbers and carrier info.

16. Send Customer Dispatch Notification

Send an automated email to the customer with their tracking number and order summary.

17. Finalize Order Status

Update the Order Data Model status to 'Shipped' and close the workflow loop.

18. Generate Daily Warehouse Throughput Report

Create a summary report of all orders picked and packed during the current shift.

19. Notify Manager of Low Stock

Send an SMS alert to the Warehouse Manager if an item quantity falls below the safety threshold.

20. Remove Cancelled Order from Queue

Delete the entry from the 'Active Picking Queue' if an order is cancelled by the customer.

End

End of the Workflow/Process.