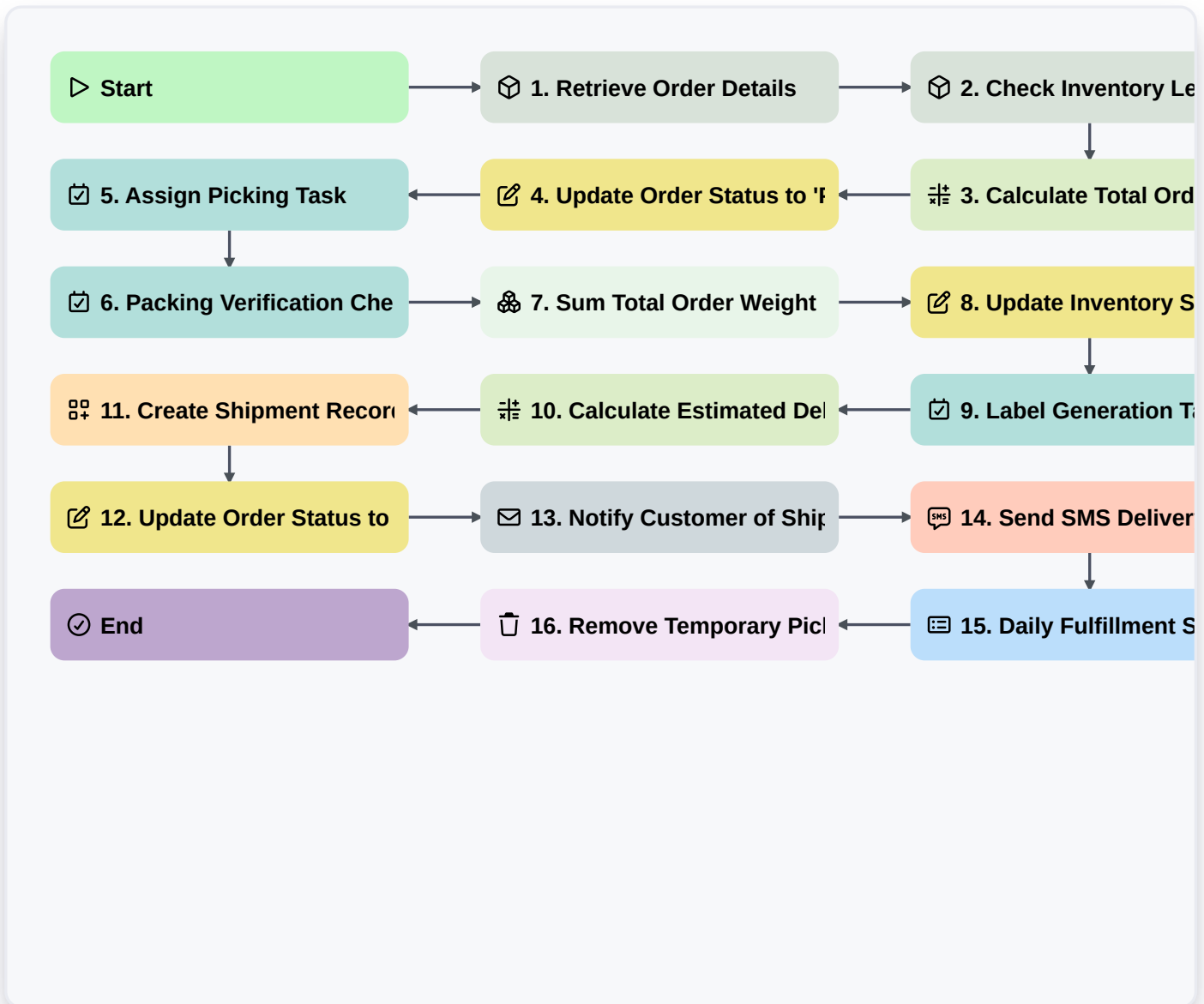


Order Fulfillment Lifecycle



▷ Start

Start of the Workflow/Process.

📦 1. Retrieve Order Details

Fetch the specific order entry and associated customer data from the Order Data Model.

📦 2. Check Inventory Levels

Retrieve current stock levels from the Inventory Data Model for all items in the order.

🧮 3. Calculate Total Order Value

Calculate the total price by summing line items, including tax and shipping fees.

✍️ 4. Update Order Status to 'Processing'

Update the status field of the Order entry to reflect that the fulfillment has begun.

📋 5. Assign Picking Task

Create a task for the Warehouse Staff to pick items from the warehouse shelves.

📋 6. Packing Verification Checklist

Assign a task to the Packing Agent including a checklist to verify item accuracy and quality.



7. Sum Total Order Weight

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

8. Update Inventory Stock

Decrement the quantity available in the Inventory Data Model for the picked items.

9. Label Generation Task

Create a task for the Shipping Clerk to generate and print the shipping label.

10. Calculate Estimated Delivery Date

Calculate the delivery date based on the current date plus the shipping method transit time.

11. Create Shipment Record

Create a new entry in the Shipments Data Model containing tracking number and carrier info.

12. Update Order Status to 'Shipped'

Update the Order entry status to 'Shipped' and attach the tracking number.

13. Notify Customer of Shipment

Send an automated email to the customer's email address with their tracking information.

14. Send SMS Delivery Alert

Send a text message to the customer's phone number notifying them that the order is on the way.

15. Daily Fulfillment Summary

Generate a report summarizing all orders processed, shipped, and completed during the day.

16. Remove Temporary Picking List

Delete the transient picking list entry once the packing task is successfully completed.

End

End of the Workflow/Process.