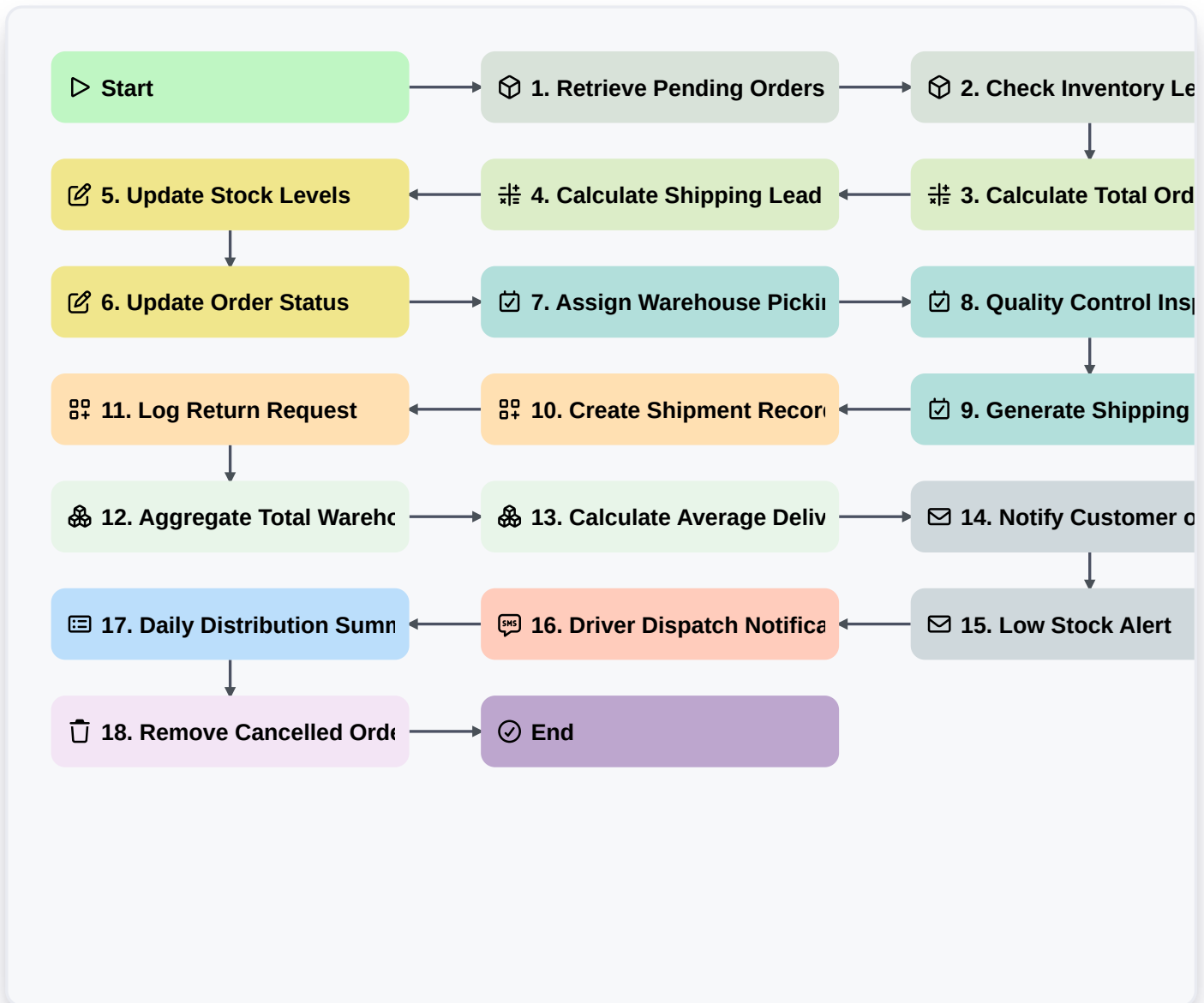


# Retail Distribution And Logistics Management



## ▷ Start

Start of the Workflow/Process.

## 📦 1. Retrieve Pending Orders

Fetch all entries from the 'Orders' data model where status is 'Pending'.

## 📦 2. Check Inventory Levels

Retrieve current stock quantities from the 'Inventory' data model for specific SKUs.

## 📊 3. Calculate Total Order Value

Sum the unit price multiplied by quantity for all line items in an order entry.

## 📊 4. Calculate Shipping Lead Time

Calculate the difference between the 'Order Date' and the 'Expected Delivery Date'.

## ✍️ 5. Update Stock Levels

Decrement the 'Available Quantity' in the Inventory data model after an order is processed.

## ✍️ 6. Update Order Status

Change the status of an Order entry from 'Processing' to 'Shipped'.



### **7. Assign Warehouse Picking Task**

Create a task for the Warehouse Manager to begin the picking process for a specific order.

### **8. Quality Control Inspection**

Create a task for the QC Specialist to verify items before packaging.

### **9. Generate Shipping Label**

Create a task for the Logistics Clerk to print and attach labels to outgoing parcels.

### **10. Create Shipment Record**

Create a new entry in the 'Shipments' data model once items leave the warehouse.

### **11. Log Return Request**

Create a new entry in the 'Returns' data model when a customer initiates a claim.

### **12. Aggregate Total Warehouse Value**

Sum the 'Total Value' property of all items in the Inventory data model.

### **13. Calculate Average Delivery Time**

Calculate the average duration of completed shipments to monitor carrier performance.

### **14. Notify Customer of Shipment**

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

### **15. Low Stock Alert**

Send an email to the Procurement Team when inventory falls below the reorder point.

### **16. Driver Dispatch Notification**

Send an SMS to the delivery driver containing the pickup location and time.

### **17. Daily Distribution Summary**

Generate a report summarizing total orders processed, shipped, and cancelled in the last 24 hours.

### **18. Remove Cancelled Order Lines**

Delete specific line-item entries from an order if they are no longer available in stock.

### **End**

End of the Workflow/Process.