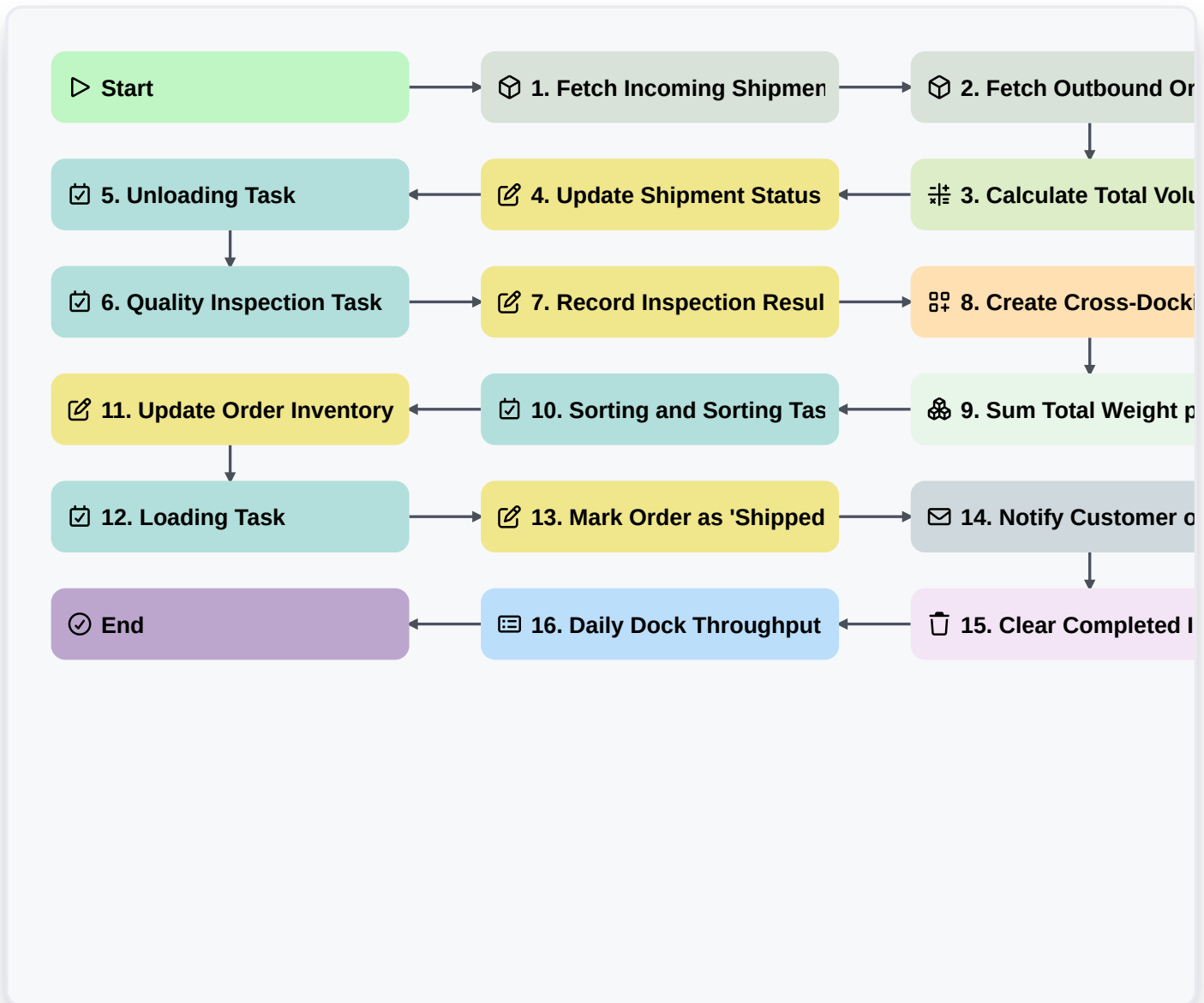


Cross-Docking Operational Workflow



Start

Start of the Workflow/Process.

1. Fetch Incoming Shipments

Retrieve all pending incoming delivery entries from the Shipment Data Model.

2. Fetch Outbound Orders

Retrieve all pending outbound orders from the Order Data Model for matching.

3. Calculate Total Volume Mismatch

Compare the total volume of incoming stock vs. outbound orders to identify capacity gaps.

4. Update Shipment Status to 'Arrived'

Update the status of the incoming shipment entry to 'In Processing' once docked.

5. Unloading Task

Assign a task to the Warehouse Operator to unload the specific container.

6. Quality Inspection Task

Assign a task to the QC Specialist to verify the contents of the incoming goods.



7. Record Inspection Results

Update the inspection entry with pass/fail status and any observed damages.

8. Create Cross-Docking Instruction

Generate a new instruction entry that links the incoming shipment ID to the outbound order ID.

9. Sum Total Weight per Dock

Aggregate the total weight of all items currently assigned to a specific loading dock.

10. Sorting and Sorting Task

Assign a task to the Floor Staff to move items from the inbound lane to the outbound lane.

11. Update Order Inventory

Update the outbound order entry to reflect that items are now 'Ready for Loading'.

12. Loading Task

Assign a task to the Driver/Loader to load the sorted goods into the outbound vehicle.

13. Mark Order as 'Shipped'

Update the outbound order status to 'Departed'.

14. Notify Customer of Departure

Send an automated email to the customer with the shipment tracking details.

15. Clear Completed Instructions

Remove the temporary cross-docking instruction entry once the process is finalized.

16. Daily Dock Throughput Report

Generate a report summarizing the number of shipments processed and total volume moved during the shift.

End

End of the Workflow/Process.