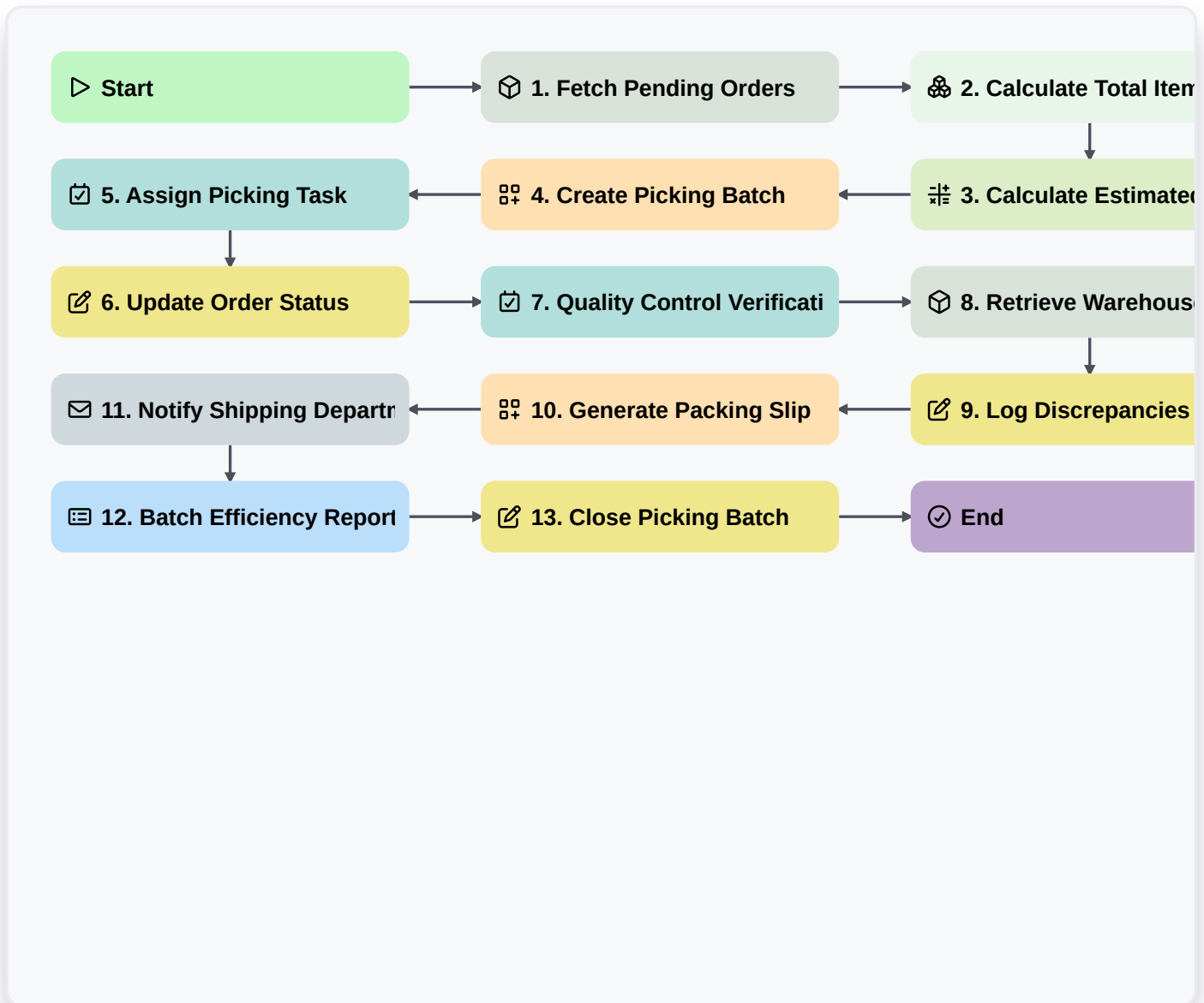


Batch Picking Process Optimization



▷ 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. Calculate Total Item Count

Sum the total quantity of all individual line items within the selected batch of orders.

⌚ 3. Calculate Estimated Picking Time

Calculate the estimated duration of the batch based on total item count multiplied by a standard pick-rate constant.

📋 4. Create Picking Batch

Create a new entry in the 'Picking Batch' Data Model containing the aggregated order IDs and calculated metrics.

📌 5. Assign Picking Task

Create a task assigned to the Warehouse Operator to begin the physical picking process for the new batch.

✍️ 6. Update Order Status

Update the status of all included orders from 'Ready to Pick' to 'In Progress' within the Order Data Model.



7. Quality Control Verification

Create a sub-task for the QC Specialist to verify the contents of the batch once picking is completed.

8. Retrieve Warehouse Bin Locations

Get the location data for all items included in the current picking batch to generate a pick-path.

9. Log Discrepancies

Update the Picking Batch entry with any quantity mismatches found during the physical pick.

10. Generate Packing Slip

Create a new entry in the Documentation Data Model to serve as the manifest for the completed batch.

11. Notify Shipping Department

Send an email to the Shipping Team indicating that a batch has completed picking and is ready for packing.

12. Batch Efficiency Report

Generate a performance report comparing the estimated picking time vs. actual time taken for the batch.

13. Close Picking Batch

Update the Picking Batch entry status to 'Completed' or 'Closed'.

End

End of the Workflow/Process.