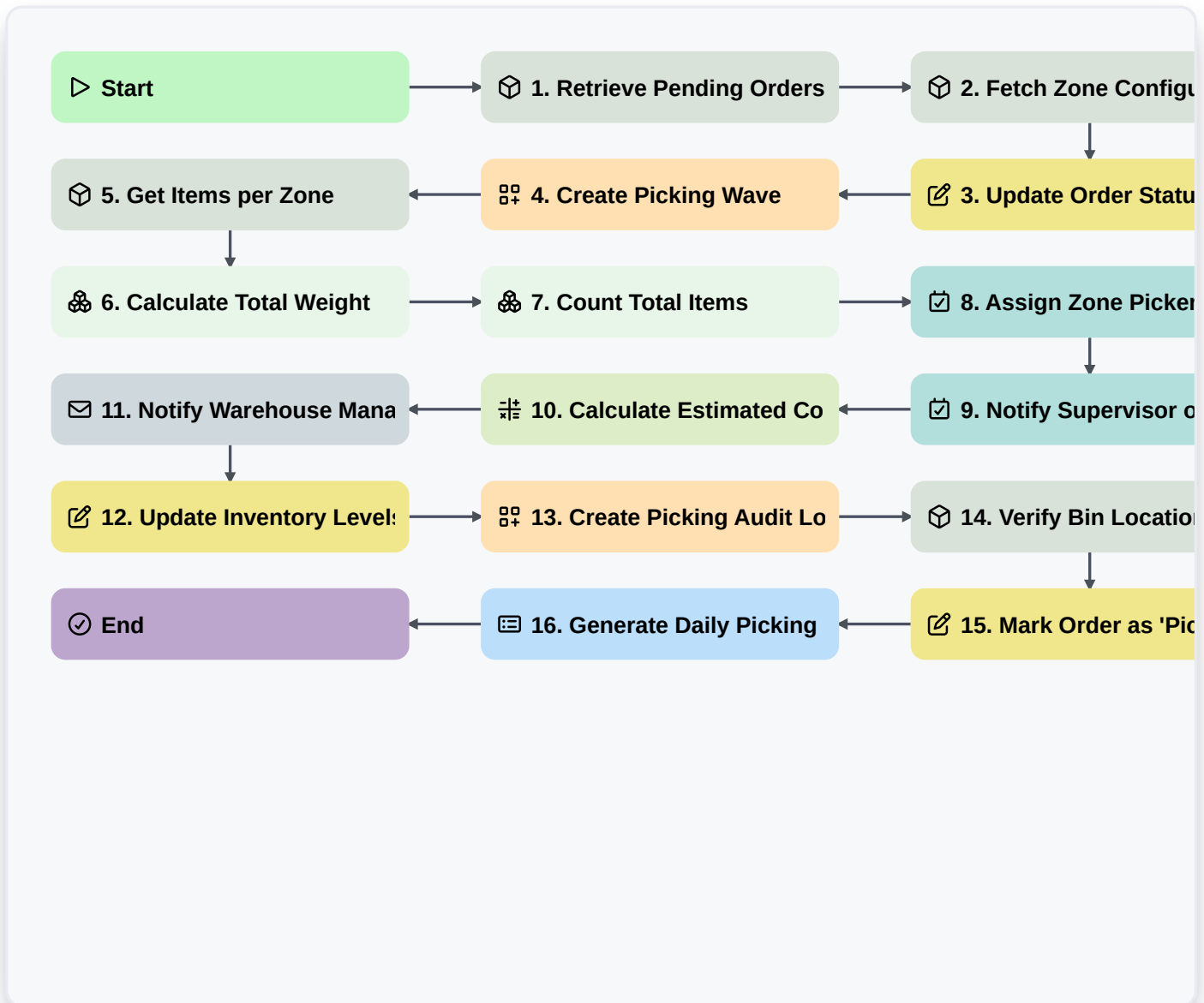


Zone Picking Workflow Management



▷ Start

Start of the Workflow/Process.

📦 1. Retrieve Pending Orders

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

📦 2. Fetch Zone Configuration

Retrieve the specific zone assignments and picking rules for the warehouse layout.

✍️ 3. Update Order Status to 'Picking'

Change the status of the retrieved orders to 'In Progress' to prevent duplicate picking.

📦 4. Create Picking Wave

Generate a new 'Picking Wave' entry that groups multiple orders together for a single zone run.

📦 5. Get Items per Zone

Extract all line items associated with the current picking wave, grouped by warehouse zone.

📦 6. Calculate Total Weight

Sum the weight of all items in the current picking wave to determine if a specific cart/tote is needed.



7. Count Total Items

Count the total number of units to be picked to estimate the workload duration.

8. Assign Zone Picker Task

Create a task for the Picker assigned to the specific zone (e.g., Zone A, Zone B).

9. Notify Supervisor of Discrepancy

Create a high-priority task for the Floor Supervisor if a 'Short Pick' is reported.

10. Calculate Estimated Completion Time

Calculate ETA based on total item count multiplied by the average picking speed per item.

11. Notify Warehouse Manager

Send an email summary of the completed picking wave and any identified stock shortages.

12. Update Inventory Levels

Decrement the 'On Hand' quantity in the Inventory Data Model based on the items picked.

13. Create Picking Audit Log

Create a record in the Audit Data Model documenting the time, user, and zone of the completed task.

14. Verify Bin Location

Retrieve the bin location details to ensure the picker is directed to the correct aisle/shelf.

15. Mark Order as 'Picked'

Update the original Order entry to 'Picked' status once all items in the wave are processed.

16. Generate Daily Picking Productivity Report

Create a report summarizing items picked vs. errors encountered per zone for the shift.

End

End of the Workflow/Process.