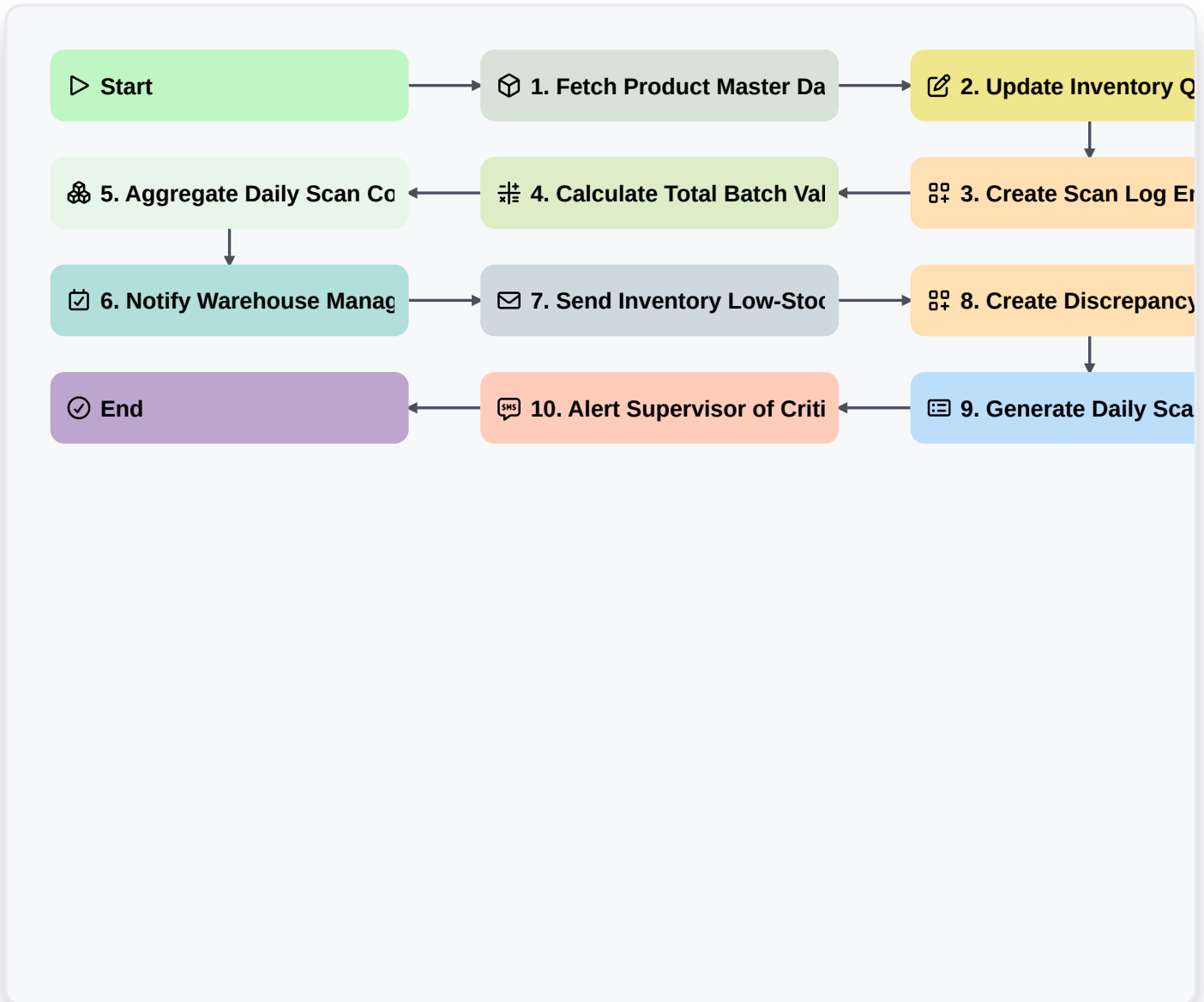


Barcode Scanning And Data Entry Workflow



▷ Start

Start of the Workflow/Process.

📦 1. Fetch Product Master Data

Retrieve product details (name, SKU, unit price) from the Product Data Model using the scanned barcode.

✍️ 2. Update Inventory Quantity

Update the existing stock level in the Inventory Data Model after a successful scan.

📄 3. Create Scan Log Entry

Create a new entry in the Scanning History model to record the timestamp, user, and scanned item.

🔢 4. Calculate Total Batch Value

Execute a formula to multiply the scanned quantity by the unit price retrieved from the Product model.

🔗 5. Aggregate Daily Scan Count

Sum the total number of successful scans recorded in the Scanning History for the current day.

📧 6. Notify Warehouse Manager of Discrepancy

Create a task for the Warehouse Manager if the scanned quantity does not match the expected system quantity.



✉ **7. Send Inventory Low-Stock Alert**

Send an automated email to the Procurement Team if the updated inventory level falls below the reorder threshold.

🗃️ **8. Create Discrepancy Report Entry**

Create a new entry in the Discrepancy Data Model when a barcode scan fails or quantity mismatch is detected.

📄 **9. Generate Daily Scanning Summary**

Create a summary report at the end of the shift showing total items processed and total value scanned.

📱 **10. Alert Supervisor of Critical Error**

Send an SMS to the floor supervisor if a restricted/unauthorized barcode is scanned.

✅ **End**

End of the Workflow/Process.