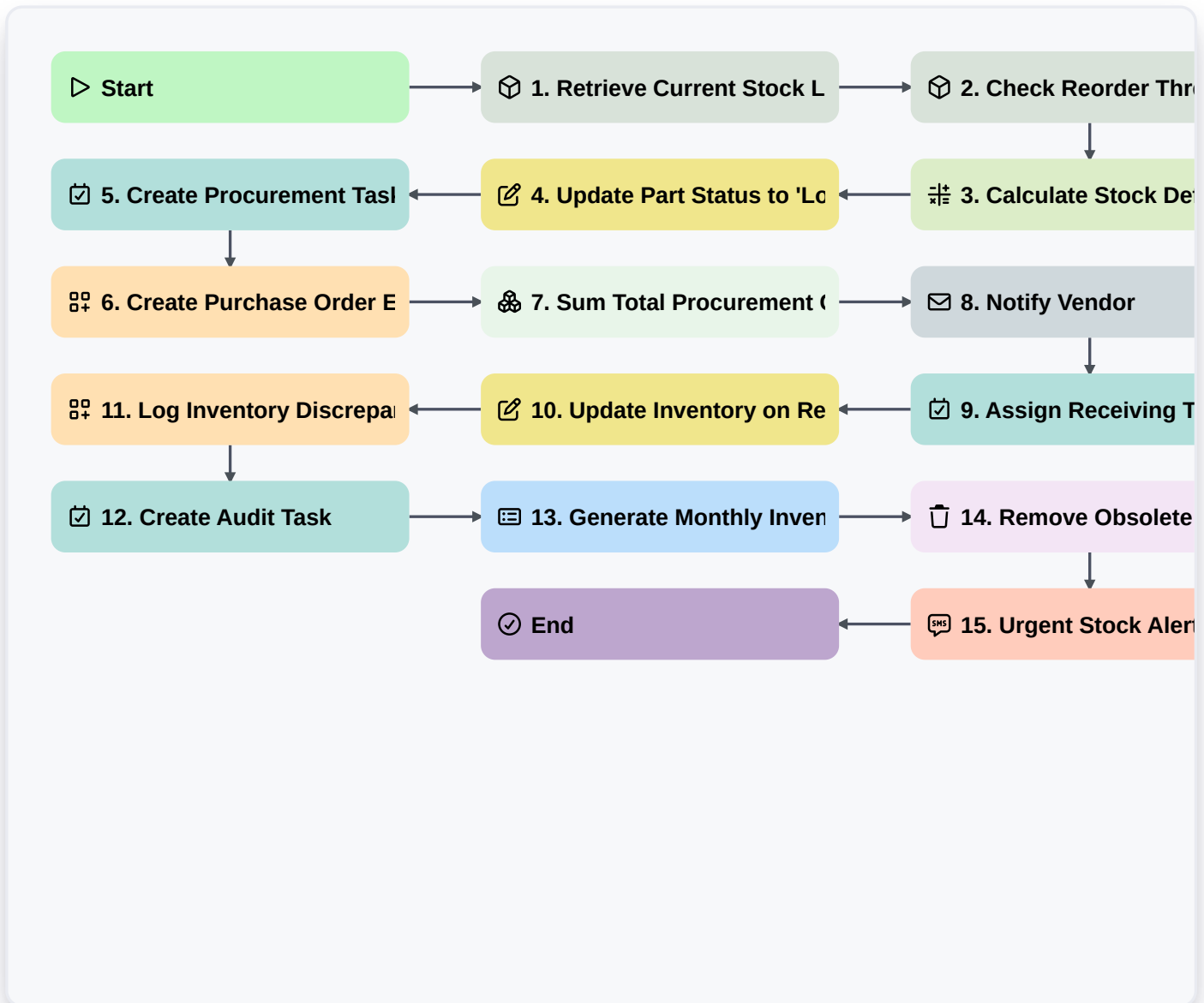


Automotive Parts Inventory Control



Start

Start of the Workflow/Process.

1. Retrieve Current Stock Levels

Fetch all existing entries from the Parts Inventory Data Model to check current quantities.

2. Check Reorder Thresholds

Retrieve the minimum stock level settings for each part ID to identify items needing replenishment.

3. Calculate Stock Deficit

Subtract current stock quantity from the reorder threshold to determine the number of units needed.

4. Update Part Status to 'Low Stock'

Update the status field in the Parts Data Model for items that have fallen below the threshold.

5. Create Procurement Task

Generate a new task for the Purchasing Manager to initiate a purchase order for low-stock parts.

6. Create Purchase Order Entry

Generate a new entry in the Purchase Orders Data Model containing the required part quantities and estimated costs.



7. Sum Total Procurement Cost

Aggregate the cost values from all new Purchase Order entries to calculate total upcoming expenditure.

8. Notify Vendor

Send an automated email to the supplier with the details of the new purchase order.

9. Assign Receiving Task

Create a task for the Warehouse Clerk to inspect parts upon their physical arrival.

10. Update Inventory on Receipt

Update the 'Quantity on Hand' in the Parts Data Model once the clerk confirms the shipment arrival.

11. Log Inventory Discrepancy

Create an entry in the Discrepancy Log if the received quantity does not match the purchase order quantity.

12. Create Audit Task

Schedule a periodic cycle count task for high-value parts to ensure data accuracy.

13. Generate Monthly Inventory Valuation Report

Create a summary report showing the total value of all stock on hand and total shrinkage recorded.

14. Remove Obsolete Part Records

Delete entries from the Parts Data Model for parts that are officially discontinued and no longer stocked.

15. Urgent Stock Alert

Send an SMS to the Warehouse Supervisor if a critical 'Class A' part reaches zero stock.

End

End of the Workflow/Process.