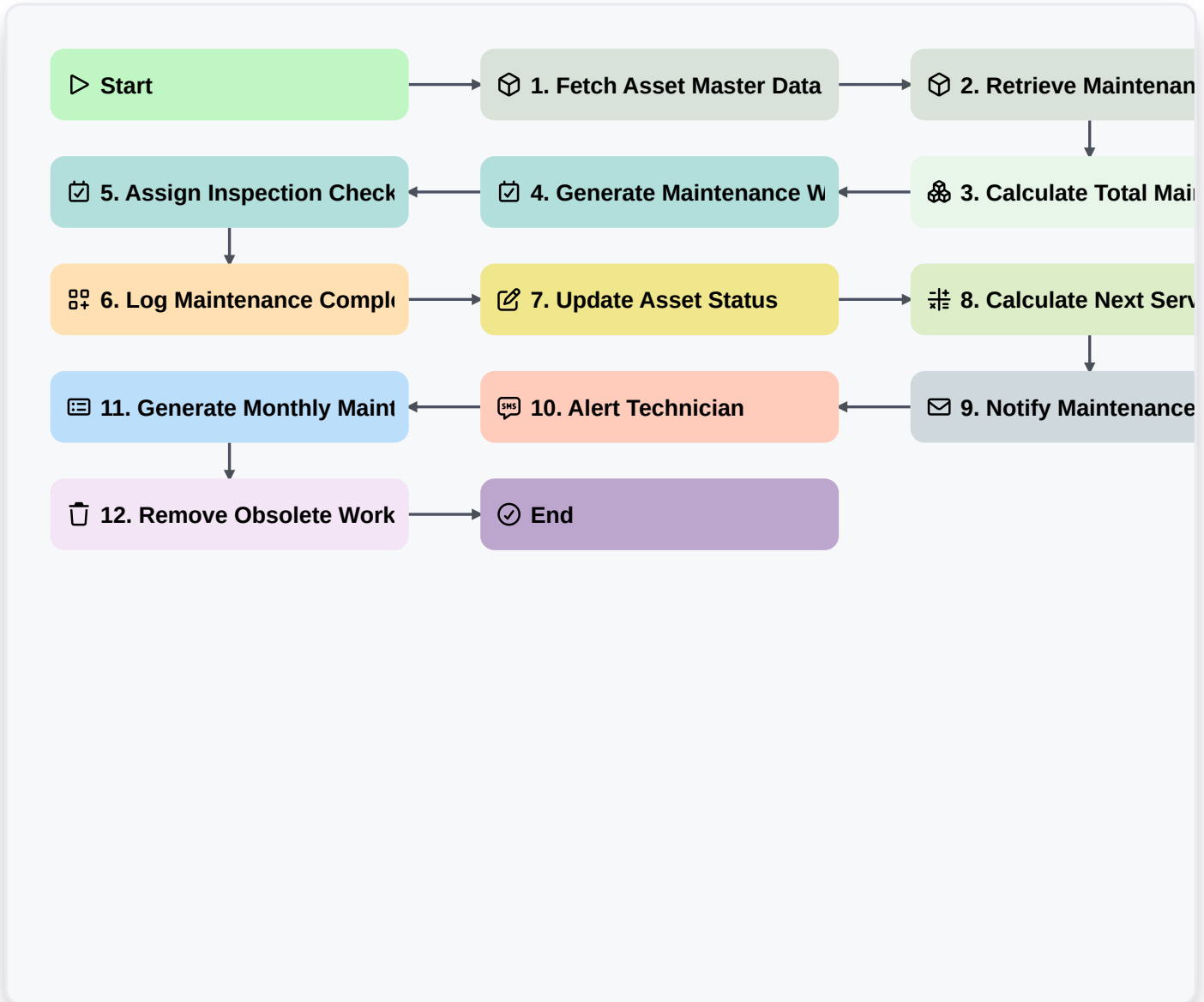


Automated Preventive Maintenance & Asset Lifecycle Management Workflow



▶ Start

Start of the Workflow/Process.

📦 1. Fetch Asset Master Data

Retrieve asset details and maintenance schedules from the Asset Data Model

📦 2. Retrieve Maintenance History

Get previous maintenance logs and repair history for the specific asset

🔗 3. Calculate Total Maintenance Cost

Sum the costs of all previous repair entries to calculate total cost of ownership

✅ 4. Generate Maintenance Work Order

Create a new task assigned to the Maintenance Technician with predefined steps

✅ 5. Assign Inspection Checklist

Attach a standardized safety and operational checklist to the maintenance task



6. Log Maintenance Completion

Create a new entry in the Maintenance Log data model upon task completion

7. Update Asset Status

Update the asset status to 'Under Maintenance' or 'Operational' in the Asset Model

8. Calculate Next Service Date

Calculate the next scheduled maintenance date based on the interval frequency

9. Notify Maintenance Manager

Send an email notification to the manager when a critical fault is detected

10. Alert Technician

Send an SMS alert to the assigned technician regarding an urgent work order

11. Generate Monthly Maintenance Summary

Create a monthly report summarizing completed tasks, costs, and downtime

12. Remove Obsolete Work Orders

Delete redundant or duplicate work order entries from the system

End

End of the Workflow/Process.