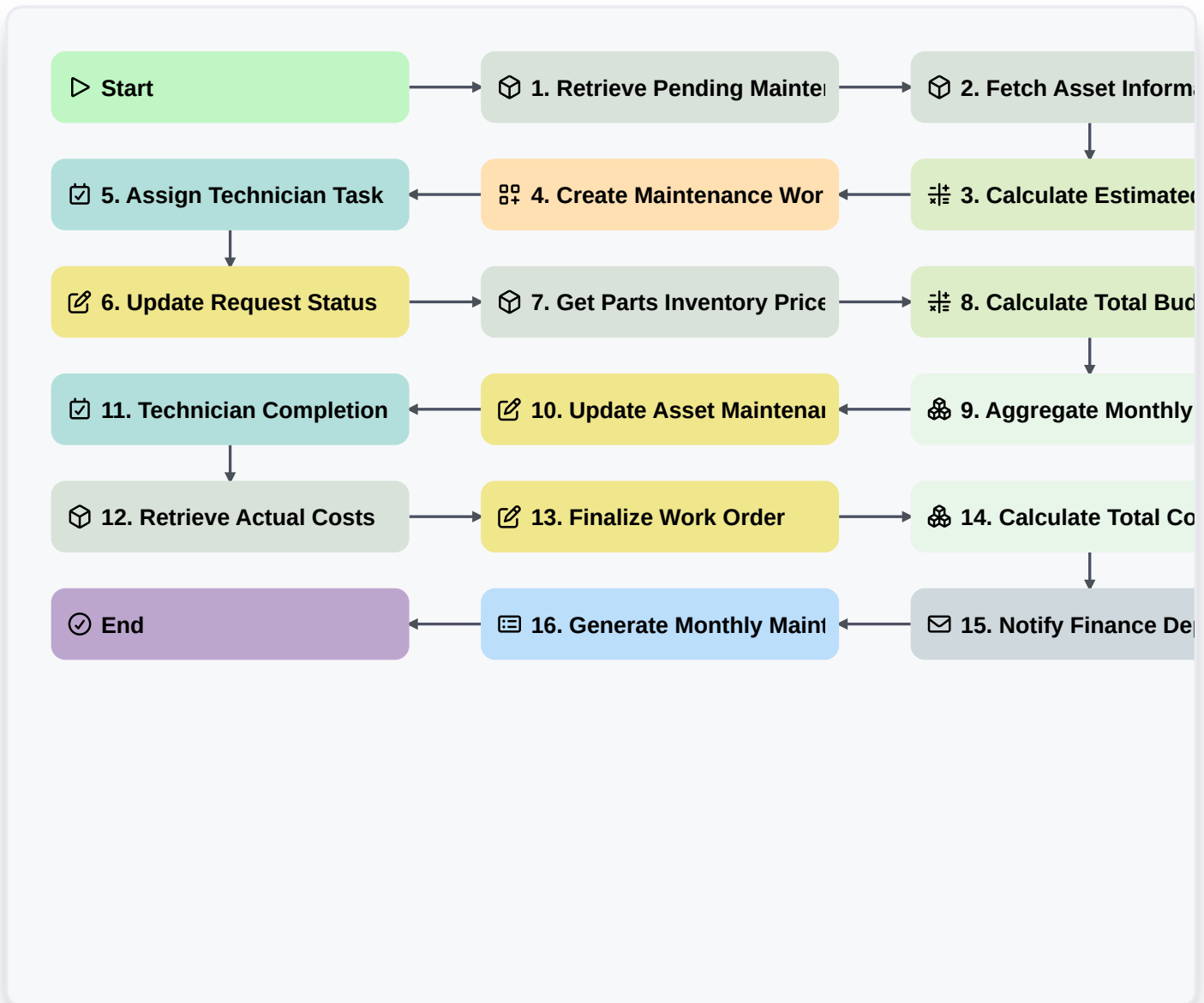


Maintenance Cost Tracking Process



Start

Start of the Workflow/Process.

1. Retrieve Pending Maintenance Requests

Fetch all entries from the Maintenance Requests data model where status is 'New' or 'Unassigned'.

2. Fetch Asset Information

Retrieve details from the Assets data model (e.g., age, warranty status) associated with the maintenance request.

3. Calculate Estimated Repair Cost

Calculate total cost by summing parts_cost and labor_cost retrieved from the request.

4. Create Maintenance Work Order

Create a new entry in the Work Orders data model based on the maintenance request details.

5. Assign Technician Task

Create a task for the Maintenance Manager to review and assign a technician to the newly created Work Order.

6. Update Request Status

Update the original Maintenance Request entry status to 'In Progress'.



7. Get Parts Inventory Prices

Retrieve unit prices for the required parts from the Inventory data model.

8. Calculate Total Budget Impact

Calculate the sum of parts and labor against the remaining annual maintenance budget.

9. Aggregate Monthly Maintenance Spend

Calculate the SUM of all completed maintenance costs for the current month to track budget consumption.

10. Update Asset Maintenance Log

Update the 'Last Maintenance Date' field in the Assets data model for the specific asset being repaired.

11. Technician Completion Task

Create a task for the assigned technician to complete the repair and log actual costs.

12. Retrieve Actual Costs

Get the final parts and labor cost entries from the completed Work Order.

13. Finalize Work Order

Update the Work Order status to 'Closed' and set the final cost field.

14. Calculate Total Cost Variance

Calculate the difference between the Estimated Repair Cost and the Final Actual Cost.

15. Notify Finance Department

Send an email to the Finance team with the summary of the completed maintenance cost for budget reconciliation.

16. Generate Monthly Maintenance Cost Report

Create a structured report aggregating all maintenance expenditures, assets serviced, and budget variances for the month.

End

End of the Workflow/Process.