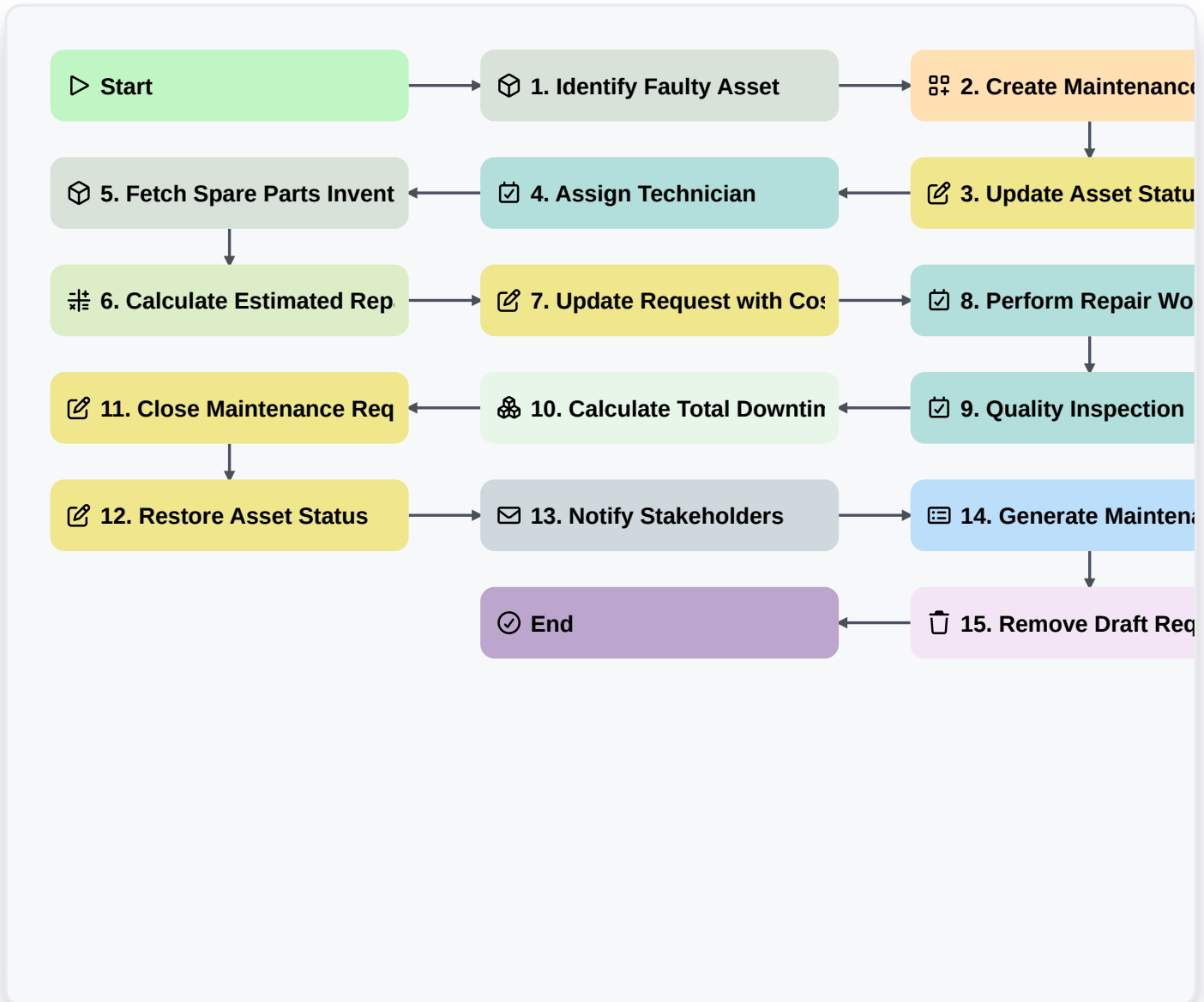


Corrective Maintenance Management Process



▷ Start

Start of the Workflow/Process.

📦 1. Identify Faulty Asset

Retrieve the specific Asset entry from the Asset Data Model that requires maintenance.

📄 2. Create Maintenance Request

Generate a new Maintenance Request entry linked to the identified Asset and the reporter.

📝 3. Update Asset Status

Update the status of the Asset entry to 'Under Repair' or 'Out of Service'.

📝 4. Assign Technician

Create a task for a Maintenance Technician to inspect the reported fault.

📦 5. Fetch Spare Parts Inventory

Retrieve available parts from the Inventory Data Model to check for availability.

📄 6. Calculate Estimated Repair Cost

Calculate the total cost by summing labor rates and parts costs ($\text{labor_cost} + \text{parts_cost}$).



7. Update Request with Cost Estimate

Update the Maintenance Request entry with the calculated estimated cost.

8. Perform Repair Work

Create a task for the technician to execute the repair according to the maintenance plan.

9. Quality Inspection

Create a task for a Supervisor to verify that the repair meets safety standards.

10. Calculate Total Downtime

Aggregate the duration of all maintenance entries for this asset to calculate total downtime.

11. Close Maintenance Request

Update the Maintenance Request entry status to 'Completed'.

12. Restore Asset Status

Update the Asset entry status back to 'Operational'.

13. Notify Stakeholders

Send an email to the Operations Manager notifying them that the asset is back in service.

14. Generate Maintenance Summary Report

Create a report summarizing the costs and time spent on this specific maintenance event.

15. Remove Draft Request

Delete the initial draft entry if the maintenance request was created in error.

End

End of the Workflow/Process.