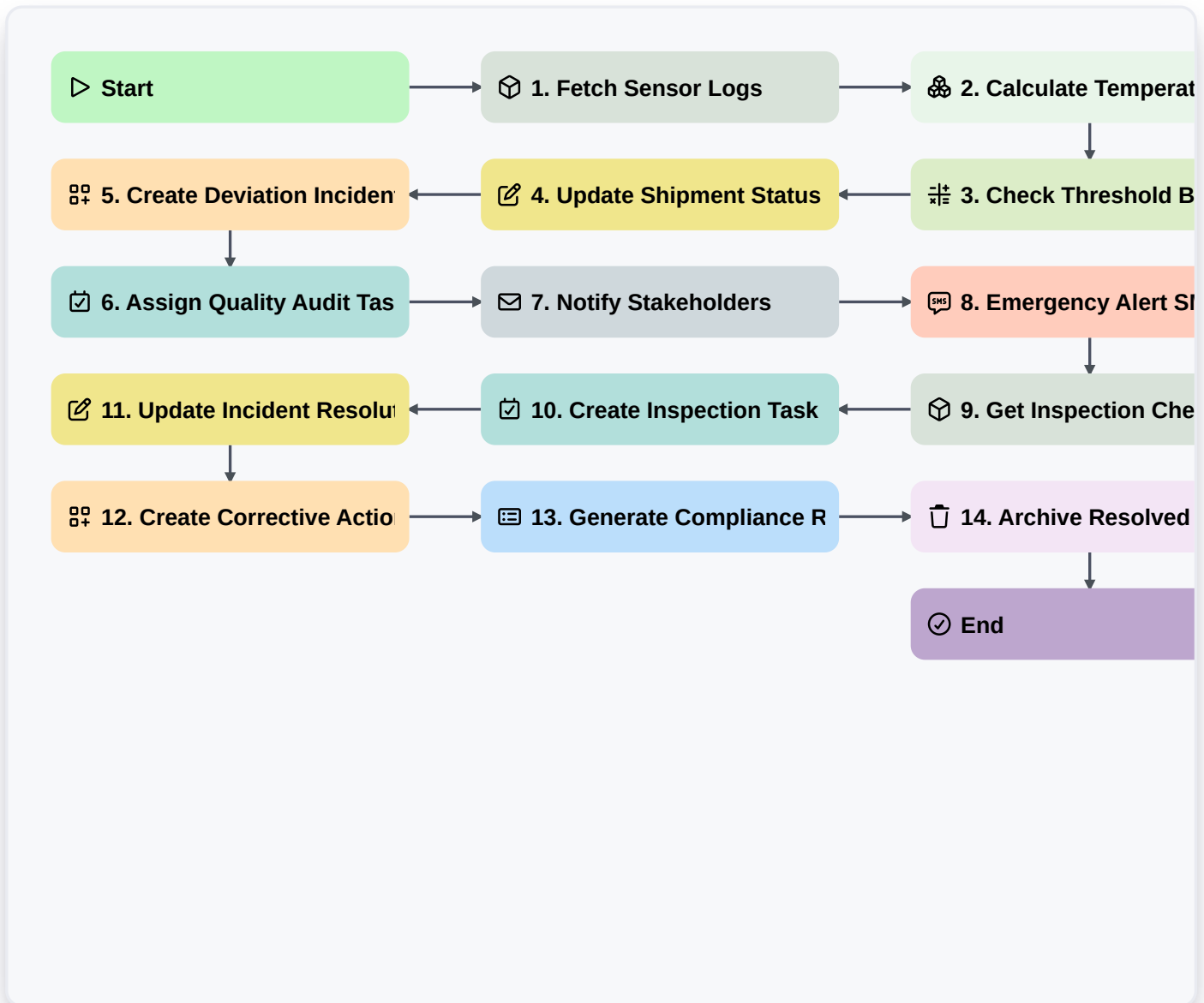


Cold Chain Temperature Monitoring Workflow



▷ Start

Start of the Workflow/Process.

📦 1. Fetch Sensor Logs

Retrieve all temperature and humidity readings from the IoT sensor data model for the current period.

🔍 2. Calculate Temperature Extremes

Calculate the Min and Max temperature values from the retrieved sensor logs to identify excursions.

⚖️ 3. Check Threshold Breach

Compare the Max temperature value against the pre-defined safety threshold (e.g., Max > 8°C).

✍️ 4. Update Shipment Status

Update the 'Temperature Status' field in the Shipment data model to 'Alert' if a breach is detected.

📄 5. Create Deviation Incident

Generate a new entry in the 'Incident Report' data model containing the breach details.

📅 6. Assign Quality Audit Task

Create a task for the Quality Assurance Manager to inspect the potentially compromised goods.



7. Notify Stakeholders

Send an automated email alert to the Logistics Manager and Warehouse Supervisor regarding the temperature excursion.

8. Emergency Alert SMS

Send an urgent SMS to the On-duty Technician if the temperature exceeds the critical 'Danger' threshold.

9. Get Inspection Checklist

Retrieve the standard 'Product Integrity Checklist' from the template data model.

10. Create Inspection Task with Checklist

Create a task for the warehouse operator that includes the retrieved inspection checklist items.

11. Update Incident Resolution

Update the 'Incident Report' entry with the findings from the physical inspection.

12. Create Corrective Action (CAPA)

If the inspection confirms damage, create a new entry in the Corrective and Preventive Action (CAPA) data model.

13. Generate Compliance Report

Generate a monthly Temperature Compliance Report summarizing all excursions and resolutions for regulatory auditing.

14. Archive Resolved Alerts

Remove temporary alert notifications from the active dashboard once the incident is marked as 'Closed'.

End

End of the Workflow/Process.