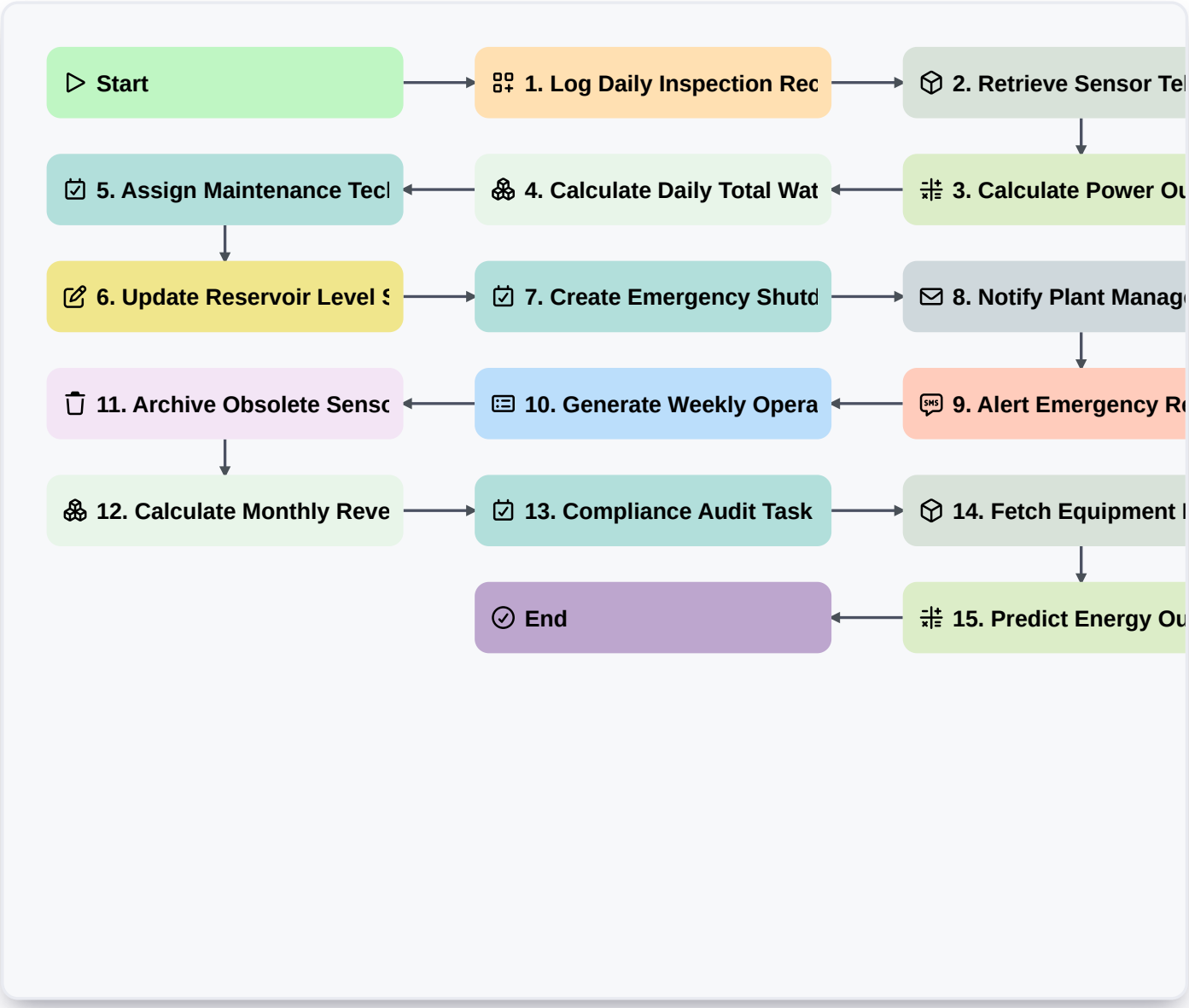
ChecklistGuro

Hydroelectric Power Plant Management



Start
Start of the Workflow/Process.

1. Log Daily Inspection Record
Create a new entry in the 'Daily Inspection' data model to record turbine, dam, and spillway status.

2. Retrieve Sensor Telemetry Data
Fetch real-time pressure, temperature, and flow rate values from the 'Sensor Readings' data model.

3. Calculate Power Output Efficiency
Calculate the efficiency ratio by comparing actual Megawatts generated against theoretical hydraulic head potential.

4. Calculate Daily Total Water Flow
Sum all 'Flow Rate' entries from the 'Water Meter' data model for the last 24-hour period.

5. Assign Maintenance Technician
Create a task for the Engineering Team to perform physical inspection of the turbine bearings.

6. Update Reservoir Level Status
Update the 'Current Water Level' field in the 'Reservoir Management' data model based on new telemetry.

7. Create Emergency Shutdown Protocol Task
Trigger a high-priority task for the Control Room Operator if sensor thresholds are breached.

8. Notify Plant Manager of Anomaly
Send an automated email to the Plant Manager when critical vibration levels are detected.

9. Alert Emergency Response Team
Send an SMS alert to the rapid response technicians in the event of a structural alert or dam breach warning.

10. Generate Weekly Operational Report
Create a comprehensive PDF report summarizing power generation, downtime, and maintenance costs.

11. Archive Obsolete Sensor Logs
Delete or move outdated sensor entries from the active 'Real-time Monitoring' model to long-term storage.

12. Calculate Monthly Revenue Forecast
Aggregate the 'Energy Produced' entries and multiply by the current 'Market Price' variable.

13. Compliance Audit Task
Create a recurring task for the Safety Officer to verify all regulatory safety checklists are completed.

14. Fetch Equipment Maintenance History
Retrieve all past repair entries from the 'Maintenance Log' associated with a specific Turbine ID.

15. Predict Energy Output
Execute a formula using 'Expected Rainfall' and 'Current Reservoir Volume' to predict next week's generation.

End
End of the Workflow/Process.