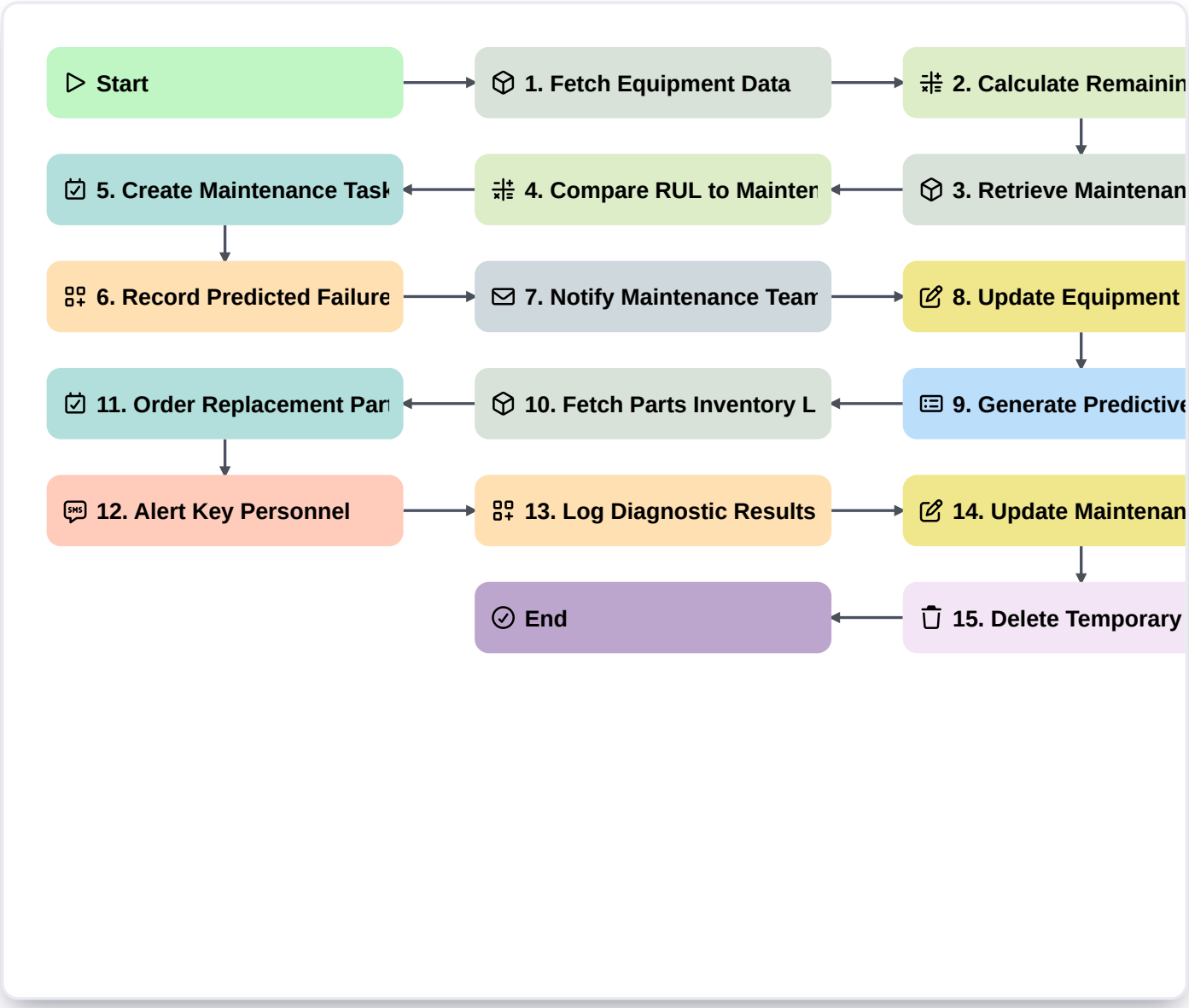
ChecklistGuro

Predictive Equipment Maintenance Workflow



Start
Start of the Workflow/Process.

1. Fetch Equipment Data
Retrieve latest sensor readings and maintenance history for selected equipment.

2. Calculate Remaining Useful Life (RUL)
Calculate the estimated RUL based on sensor data and degradation models.

3. Retrieve Maintenance Schedules
Fetch scheduled maintenance tasks and due dates for the equipment.

4. Compare RUL to Maintenance Threshold
Determine if the RUL is approaching a predefined maintenance threshold.

5. Create Maintenance Task
Automatically create a maintenance task if RUL is below threshold.

6. Record Predicted Failure Entry
Create an entry documenting the predicted failure and associated data.

7. Notify Maintenance Team
Send email notification to the maintenance team about predicted failure.

8. Update Equipment Status
Update the equipment status to 'Predicted Failure' in the equipment data model.

9. Generate Predictive Maintenance Report
Generate a report summarizing the predicted failure, RUL, and associated data.

10. Fetch Parts Inventory Levels
Retrieve current inventory levels for necessary replacement parts.

11. Order Replacement Parts
Automatically create a task to order necessary replacement parts.

12. Alert Key Personnel
Send SMS alert to key personnel about the predicted failure.

13. Log Diagnostic Results
Create an entry for diagnostic results performed before maintenance.

14. Update Maintenance Task Status
Update the maintenance task status upon completion.

15. Delete Temporary Diagnostic Entries
Delete temporary diagnostic entries after maintenance.

End
Start of the Workflow/Process.