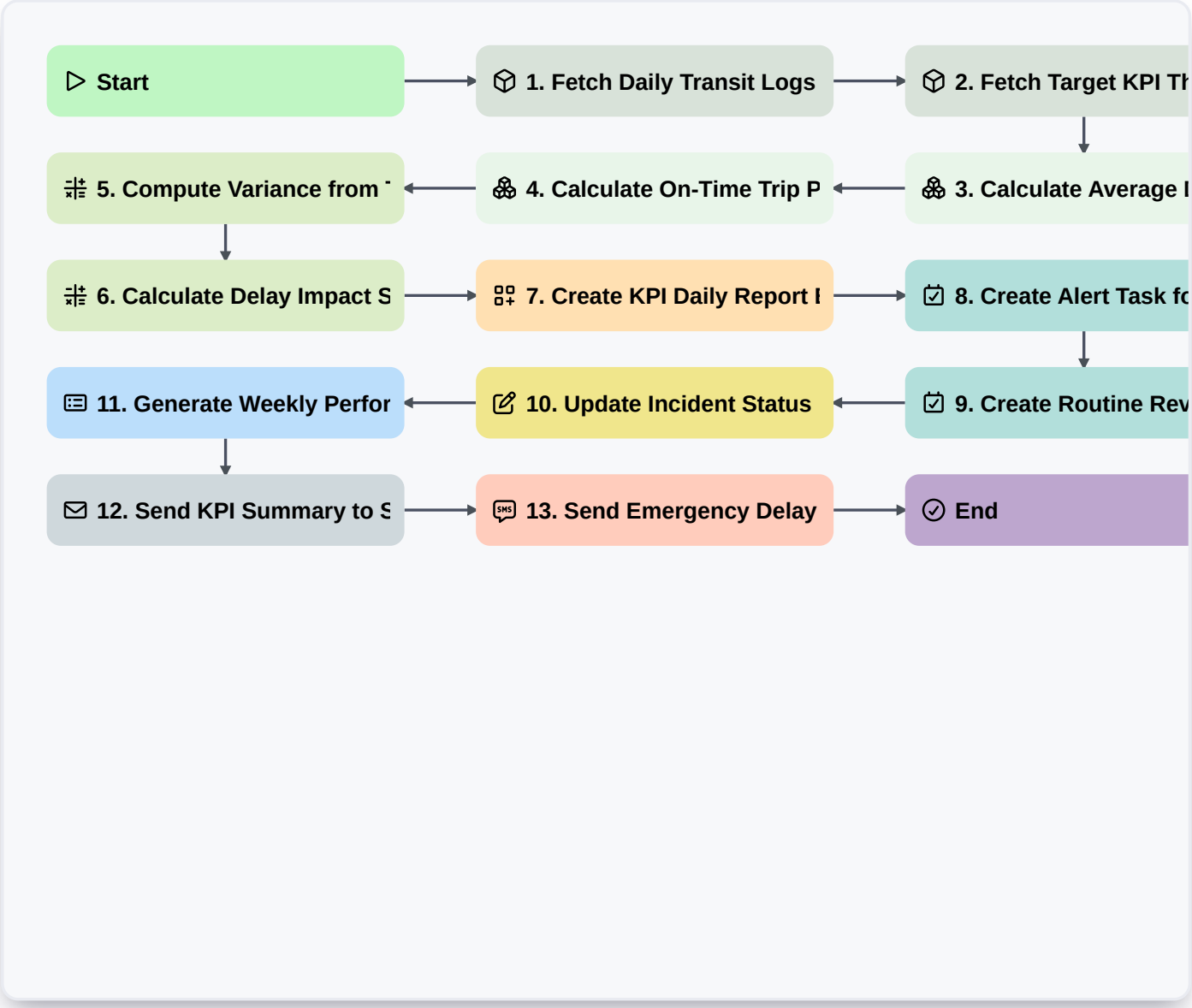
ChecklistGuro

Transit Performance KPI Monitoring And Reporting



Start
Start of the Workflow/Process.

1. Fetch Daily Transit Logs
Retrieve all completed trip entries and delay logs from the Transit Logs data model for the specified period.

2. Fetch Target KPI Thresholds
Retrieve the predefined KPI targets (e.g., On-Time Percentage target) from the KPI Configuration data model.

3. Calculate Average Delay Duration
Calculate the average value of the 'delay_minutes' property from the fetched transit logs.

4. Calculate On-Time Trip Percentage
Calculate the percentage of trips where 'status' equals 'On-Time' relative to total trips.

5. Compute Variance from Target
Calculate the difference between the Actual On-Time Percentage and the Target KPI Threshold.

6. Calculate Delay Impact Score
Execute a formula combining average delay duration and frequency of delays to determine a severity score.

7. Create KPI Daily Report Entry
Create a new record in the KPI Reporting data model containing the calculated metrics for the day.

8. Create Alert Task for Critical Deviations
Create a task for the Operations Manager if the Variance from Target exceeds the allowed threshold.

9. Create Routine Review Task
Create a recurring task for the Data Analyst to verify the accuracy of the aggregated data.

10. Update Incident Status
Update the 'last_reviewed' timestamp in the KPI Reporting entry to indicate the monitoring cycle is complete.

11. Generate Weekly Performance Dashboard
Generate a visual report/dashboard summarizing the KPI trends from the KPI Reporting data model.

12. Send KPI Summary to Stakeholders
Send an automated email containing the daily KPI summary and variance results to the management distribution list.

13. Send Emergency Delay Alert
Send an SMS alert to the Fleet Supervisor if the Delay Impact Score exceeds the critical threshold.

End
End of the Workflow/Process.