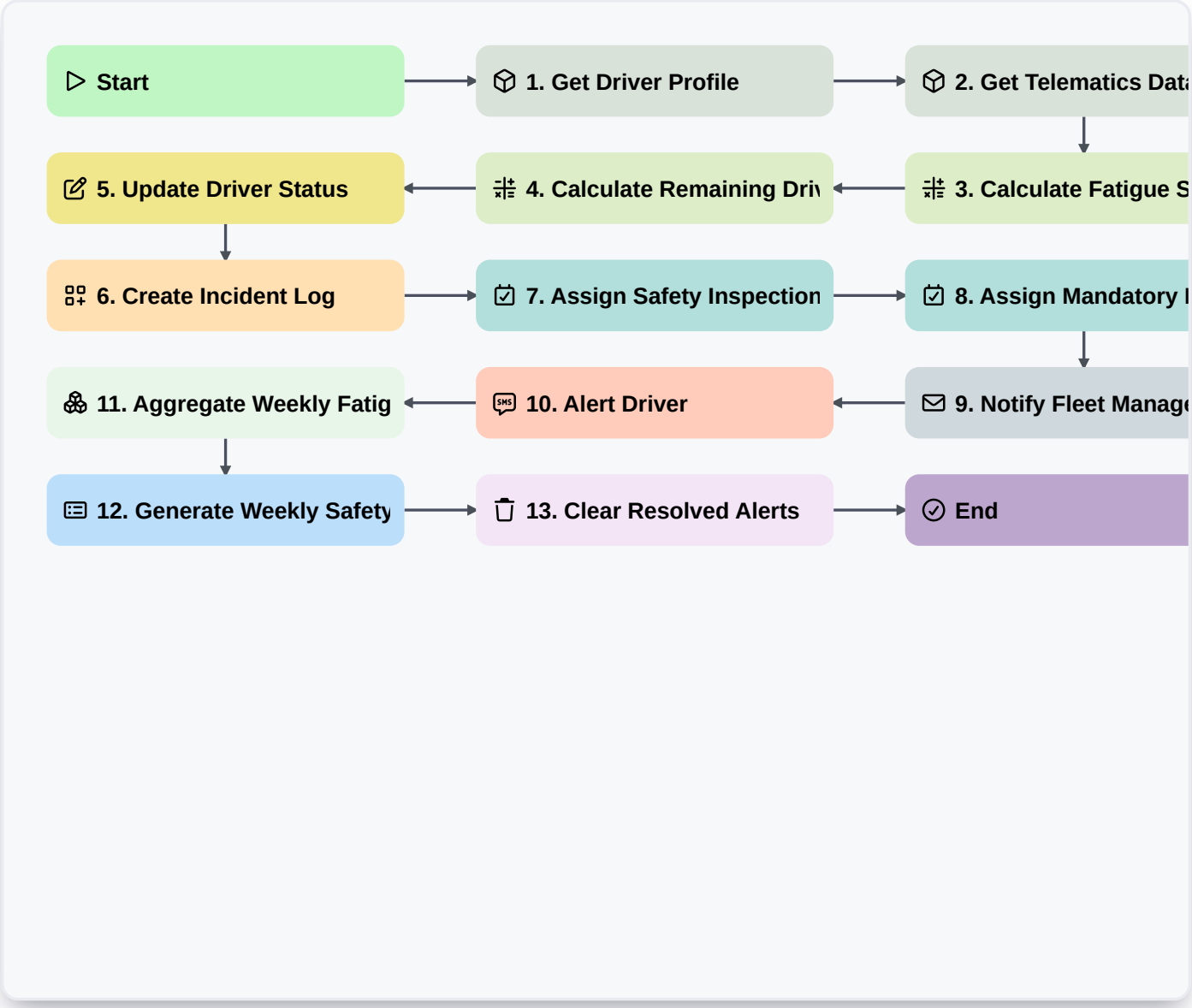
ChecklistGuro

Bus Driver Fatigue And Safety Monitoring Workflow



Start
Start of the Workflow/Process.

1. Get Driver Profile
Retrieve driver details (license info, shift history, and fatigue threshold settings) from the Driver Data Model.

2. Get Telematics Data
Retrieve recent vehicle telemetry, including braking intensity and driving duration, from the Telematics Data Model.

3. Calculate Fatigue Score
Execute a formula combining driving hours, time since last break, and recent braking incidents to calculate a real-time fatigue risk score.

4. Calculate Remaining Drive Time
Calculate the time remaining before the driver hits their mandatory rest period based on current shift start time.

5. Update Driver Status
Update the Driver Data Model entry to reflect current status (e.g., 'Active', 'At Risk', or 'Mandatory Rest').

6. Create Incident Log
Create a new entry in the Safety Incident Data Model if the fatigue score exceeds the safety threshold.

7. Assign Safety Inspection Task
Create a task for the Fleet Manager to review the flagged fatigue incident.

8. Assign Mandatory Rest Task
Create a task for the Driver to perform a vehicle inspection and complete a rest period checklist.

9. Notify Fleet Manager
Send an email alert to the Fleet Manager when a high-risk fatigue event is detected.

10. Alert Driver
Send an urgent SMS to the Driver's mobile number instructing them to pull over safely.

11. Aggregate Weekly Fatigue Trends
Sum and average all fatigue score entries for a specific driver over the last 7 days to identify long-term patterns.

12. Generate Weekly Safety Compliance Report
Generate a summary report of all fatigue alerts, response times, and completed rest periods for the weekly management review.

13. Clear Resolved Alerts
Delete temporary high-priority alert entries once the safety task has been marked as completed.

End
End of the Workflow/Process.