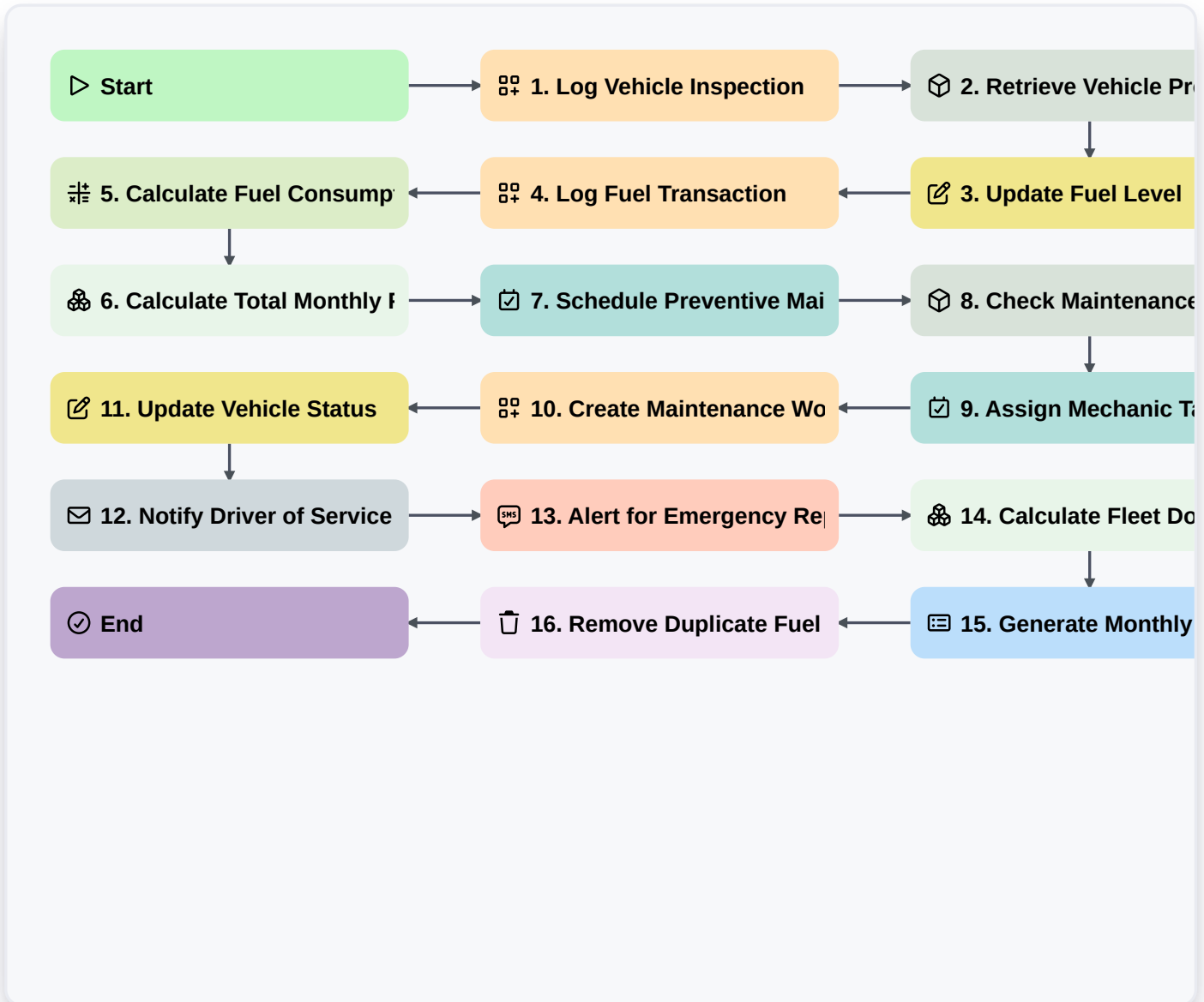


Fleet Maintenance & Fuel Management Process



▷ Start

Start of the Workflow/Process.

☰ 1. Log Vehicle Inspection

Create a new inspection entry in the Vehicle Inspection data model when a driver starts a shift.

📦 2. Retrieve Vehicle Profile

Fetch vehicle specifications and maintenance history from the Fleet Data Model.

✍️ 3. Update Fuel Level

Update the 'Current Fuel Level' field in the Vehicle entry after a refueling event is recorded.

☰ 4. Log Fuel Transaction

Create a new entry in the Fuel Log data model containing liters, cost, and odometer reading.

📊 5. Calculate Fuel Consumption (MPG/Lpk)

Calculate fuel efficiency by dividing distance traveled by fuel consumed since the last entry.

🔗 6. Calculate Total Monthly Fuel Spend

Sum the 'Total Cost' property from all Fuel Log entries within the current month.



7. Schedule Preventive Maintenance

Create a task for the Fleet Manager when a vehicle reaches a specific mileage threshold.

8. Check Maintenance Due Date

Retrieve the 'Next Service Date' from the Vehicle Data Model to compare against current date.

9. Assign Mechanic Task

Create a maintenance task assigned to a specific mechanic when a repair is needed.

10. Create Maintenance Work Order

Generate a new Work Order entry linked to the specific vehicle and the required service.

11. Update Vehicle Status

Change vehicle status to 'In Service' or 'Out of Service' based on the Work Order completion.

12. Notify Driver of Service

Send an email to the assigned driver regarding an upcoming scheduled maintenance appointment.

13. Alert for Emergency Repair

Send an SMS alert to the Fleet Supervisor if a critical vehicle breakdown is reported.

14. Calculate Fleet Downtime

Calculate the average number of days vehicles have been in 'Out of Service' status.

15. Generate Monthly Fuel Efficiency Report

Create a summary report showing fuel consumption trends across the entire fleet.

16. Remove Duplicate Fuel Entry

Delete a fuel transaction entry if it is identified as a duplicate during audit.

End

End of the Workflow/Process.