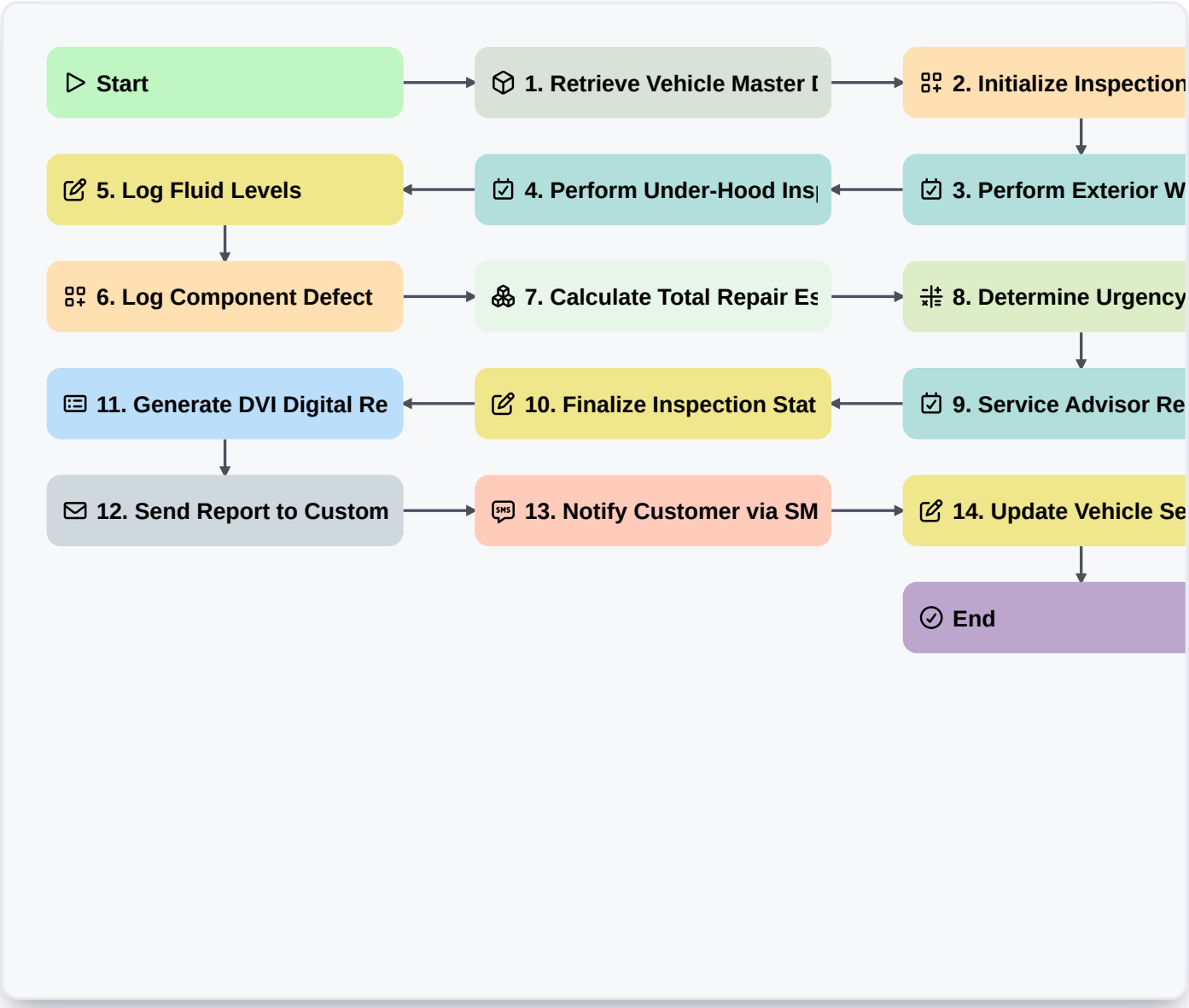
ChecklistGuro

Digital Vehicle Inspection (DVI) Procedure



Start
Start of the Workflow/Process.

1. Retrieve Vehicle Master Data
Fetch existing vehicle details (VIN, Make, Model, Year) from the Vehicle Data Model using a License Plate or VIN.

2. Initialize Inspection Session
Create a new Inspection Entry in the DVI Data Model, linking it to the retrieved Vehicle ID and current Technician.

3. Perform Exterior Walkaround
Assign a task to the Technician to inspect bodywork, lights, and windshield for cracks or damage.

4. Perform Under-Hood Inspection
Assign a task to the Technician to check fluid levels, belt condition, and battery health.

5. Log Fluid Levels
Update the Inspection Entry with specific readings for Oil, Coolant, Brake, and Transmission fluids.

6. Log Component Defect
Create a new 'Defect' entry in the sub-model if a part is found to be worn or broken during inspection.

7. Calculate Total Repair Estimate
Aggregate the cost of all identified 'Defect' entries to provide a total estimated repair cost.

8. Determine Urgency Score
Execute a formula based on the number of 'Critical' defects vs 'Monitor' defects to determine the inspection priority.

9. Service Advisor Review
Create a task for the Service Advisor to review the technician's findings and finalize the quote.

10. Finalize Inspection Status
Update the Inspection Entry status to 'Completed' and timestamp the completion.

11. Generate DVI Digital Report
Generate a customer-facing PDF report containing photos, findings, and the aggregated cost estimate.

12. Send Report to Customer
Send an email containing the link to the Digital Report and the total estimate to the customer's email address.

13. Notify Customer via SMS
Send a text message to the customer notifying them that their vehicle inspection is ready for review.

14. Update Vehicle Service History
Update the original Vehicle Master Data to include a reference to this completed inspection in its service history.

End
End of the Workflow/Process.