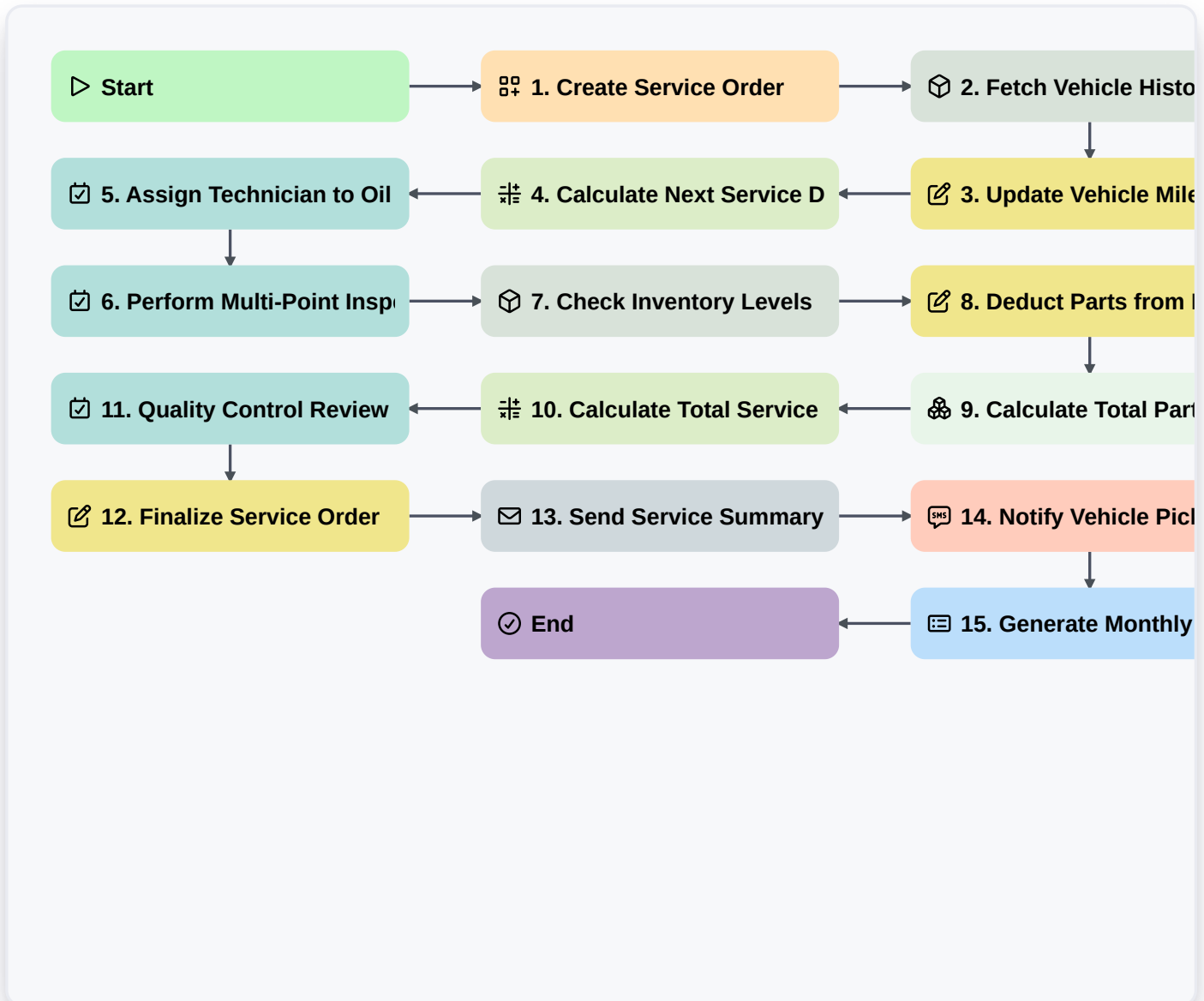


Oil Change And Preventative Maintenance Workflow



▶ Start

Start of the Workflow/Process.

🗄️ 1. Create Service Order

Create a new entry in the 'Service Orders' data model when a customer requests maintenance.

📦 2. Fetch Vehicle History

Retrieve previous service records from the 'Service History' data model using the License Plate ID.

✍️ 3. Update Vehicle Mileage

Update the 'Last Service Mileage' field in the 'Vehicle' data model with the current odometer reading.

📅 4. Calculate Next Service Due Date

Calculate the future date by adding 6 months or 5,000 miles (whichever comes first) to the current date.

📋 5. Assign Technician to Oil Change

Create a task for the assigned Mechanic to perform the oil and filter replacement.



6. Perform Multi-Point Inspection

Create a task for the technician to follow a checklist for tire pressure, brakes, and fluid levels.

7. Check Inventory Levels

Get entries from the 'Parts Inventory' data model to verify availability of oil filters and specific oil grades.

8. Deduct Parts from Inventory

Reduce the quantity of oil filters and motor oil in the 'Parts Inventory' data model after use.

9. Calculate Total Parts Cost

Aggregate the cost of all parts used in this service order to determine total material expense.

10. Calculate Total Service Cost

Sum the cost of labor and the aggregated parts cost to produce the final invoice amount.

11. Quality Control Review

Create a task for the Shop Foreman to verify that all inspection points were completed and signed off.

12. Finalize Service Order

Update the 'Service Order' status to 'Completed' and attach the final cost calculation.

13. Send Service Summary to Customer

Send an email to the customer's email address containing the work performed and the next service due date.

14. Notify Vehicle Pickup Ready

Send an SMS to the customer's phone number notifying them that their vehicle is ready for pickup.

15. Generate Monthly Maintenance Report

Create a report summarizing all completed oil changes and total revenue generated during the month.

End

End of the Workflow/Process.