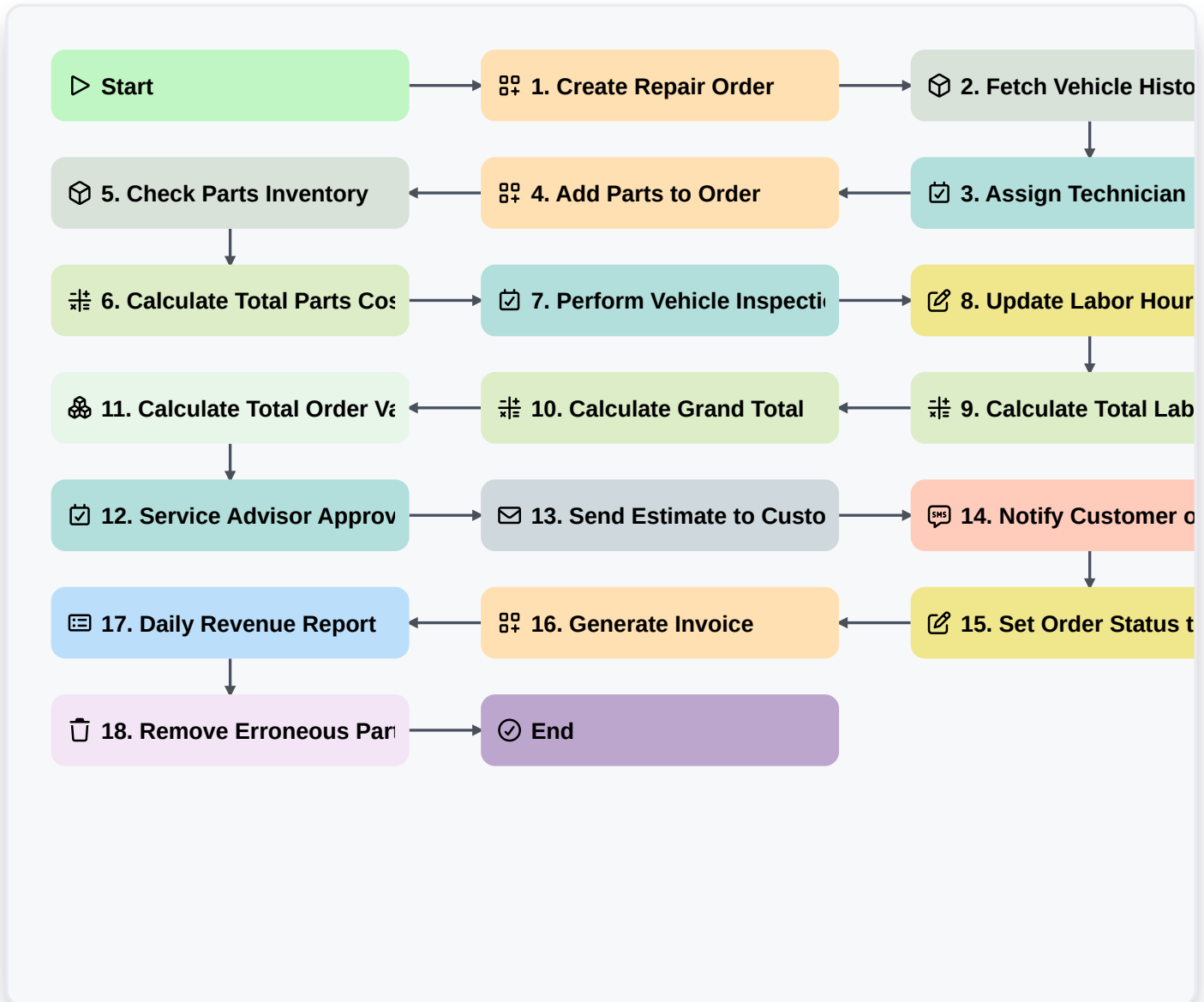


Automotive Repair Order Management



▷ Start

Start of the Workflow/Process.

☰ 1. Create Repair Order

Initialize a new Repair Order entry in the Data Model with customer and vehicle details.

📦 2. Fetch Vehicle History

Retrieve previous repair entries from the Data Model linked to the specific VIN or License Plate.

☑ 3. Assign Technician

Create a task for the Service Manager to assign a specific mechanic to the Repair Order.

☰ 4. Add Parts to Order

Create new entries in the Parts Data Model linked to the active Repair Order.

📦 5. Check Parts Inventory

Retrieve current stock levels from the Parts Data Model to verify availability.

⚖ 6. Calculate Total Parts Cost

Sum the unit price and quantity of all parts entries linked to the Repair Order.



7. Perform Vehicle Inspection

Create a task for the Technician to complete the multi-point inspection checklist.

8. Update Labor Hours

Update the Repair Order entry with the actual hours worked by the technician.

9. Calculate Total Labor Cost

Multiply the updated labor hours by the predefined hourly shop rate.

10. Calculate Grand Total

Add Total Parts Cost + Total Labor Cost + Tax to determine the final amount due.

11. Calculate Total Order Value

Aggregate all line item entries (parts and labor) to provide a summary total for the invoice.

12. Service Advisor Approval

Create a task for the Service Advisor to review the final costs before notifying the customer.

13. Send Estimate to Customer

Send an automated email to the customer's email address containing the calculated repair estimate.

14. Notify Customer of Completion

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

15. Set Order Status to 'Closed'

Update the Repair Order entry status to 'Closed' once payment is confirmed.

16. Generate Invoice

Create a final Invoice entry in the Billing Data Model linked to the closed Repair Order.

17. Daily Revenue Report

Generate a daily summary report showing all closed Repair Orders and total revenue earned.

18. Remove Erroneous Parts Entry

Delete a part entry from the Repair Order if it was added by mistake during the inspection phase.

End

End of the Workflow/Process.