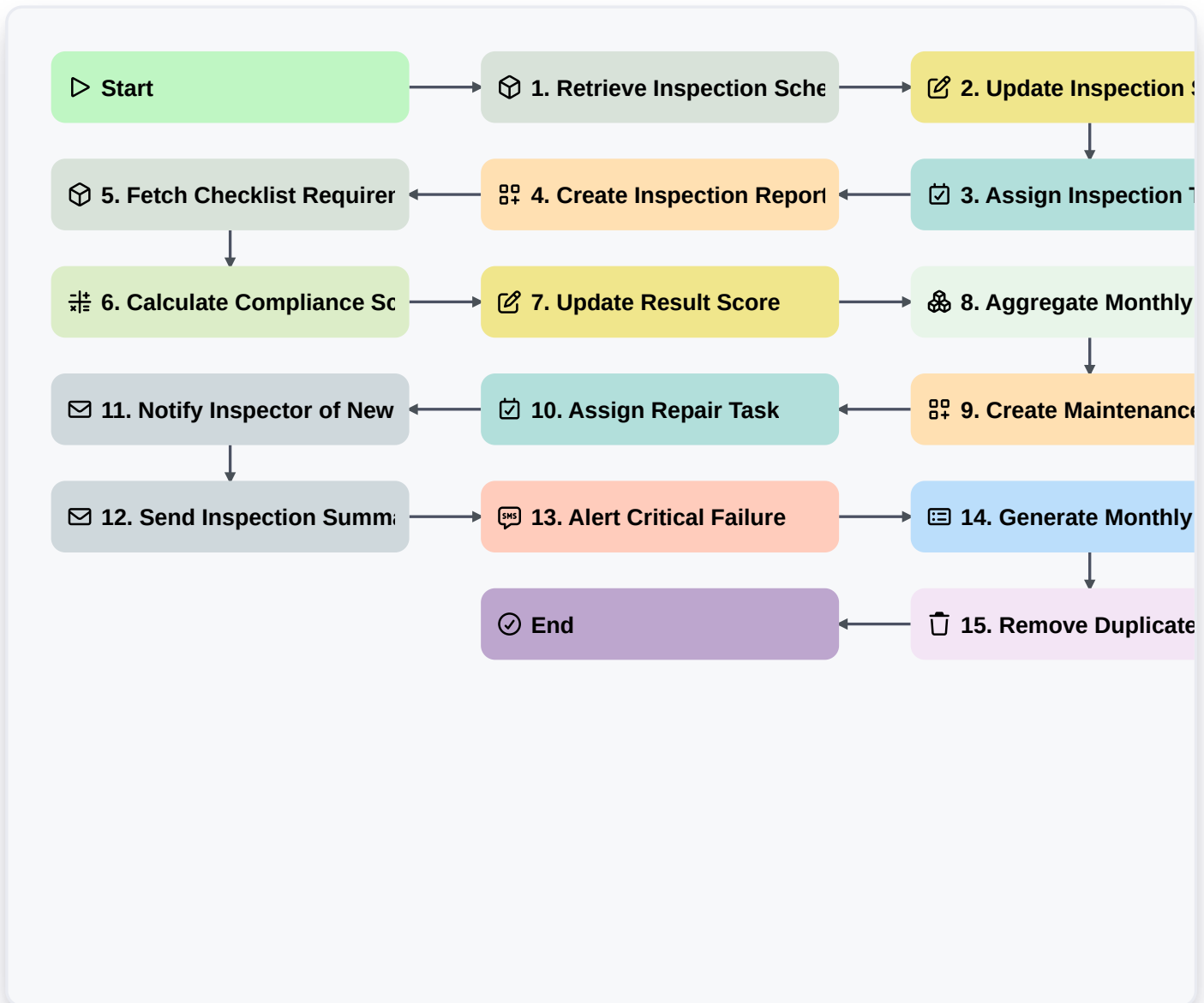


Scheduled Inspection And Checklist Workflow



▷ Start

Start of the Workflow/Process.

📅 1. Retrieve Inspection Schedule

Fetch all upcoming scheduled inspection records from the Inspection Schedule data model.

✍️ 2. Update Inspection Status to 'In Progress'

Change the status of the selected inspection entry to 'In Progress' once the inspector starts the task.

📝 3. Assign Inspection Task

Create a new task assigned to the designated Field Inspector containing the specific inspection details.

📄 4. Create Inspection Report Entry

Generate a new data entry in the Inspection Results data model once the inspection task is completed.

📦 5. Fetch Checklist Requirements

Retrieve the specific checklist items and safety standards associated with the inspected asset type.

📊 6. Calculate Compliance Score

Calculate a final percentage score based on the number of passed vs. failed items in the inspection checklist.



7. Update Result Score

Write the calculated compliance score back into the Inspection Results data entry.

8. Aggregate Monthly Failure Rate

Sum the number of 'Failed' inspection entries within the current month to track maintenance trends.

9. Create Maintenance Work Order

If a critical failure is detected, automatically create a new entry in the Maintenance Work Order data model.

10. Assign Repair Task

Create a high-priority task for the Maintenance Team if the inspection result indicates a defect.

11. Notify Inspector of New Schedule

Send an automated email to the assigned inspector when a new inspection task is added to their queue.

12. Send Inspection Summary to Manager

Send a summary of the completed inspection and its compliance score to the Operations Manager.

13. Alert Critical Failure

Send an urgent SMS alert to the Safety Officer if a 'Critical' status is recorded during the inspection.

14. Generate Monthly Compliance Report

Generate a comprehensive PDF/Dashboard report aggregating all inspection results from the last 30 days.

15. Remove Duplicate Schedule

Delete any redundant or duplicate inspection entries identified during the validation step.

End

End of the Workflow/Process.