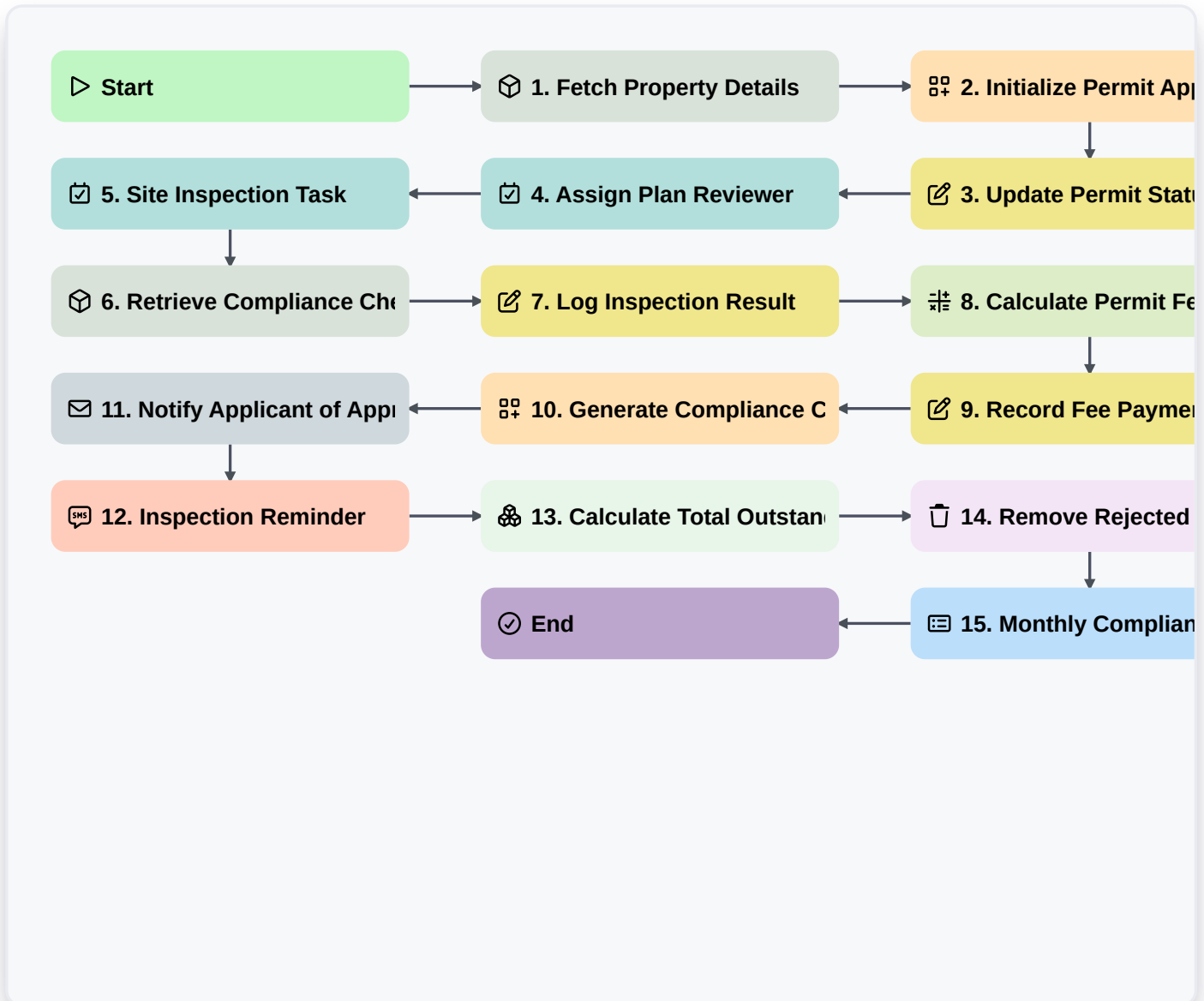


Construction Permit And Compliance Management



▶ Start

Start of the Workflow/Process.

📦 1. Fetch Property Details

Retrieve existing property data (address, zone, owner) from the Property Data Model to pre-fill the permit application.

📋 2. Initialize Permit Application

Create a new entry in the 'Permit Applications' data model to track the lifecycle of the new request.

✍️ 3. Update Permit Status

Update the status of the permit entry from 'Draft' to 'Submitted' once all required documents are uploaded.

📅 4. Assign Plan Reviewer

Create a task for the Engineering Department to begin the technical review of the architectural blueprints.

📅 5. Site Inspection Task

Create a task for the Field Inspector to visit the construction site for compliance verification.



6. Retrieve Compliance Checklist

Get all required compliance items from the 'Regulation Library' based on the specific building type.

7. Log Inspection Result

Update the Permit Entry with the notes and pass/fail result from the site inspector.

8. Calculate Permit Fee

Calculate the total permit fee based on the square footage and building type variables (e.g., $\text{area} * \text{rate_per_sqft}$).

9. Record Fee Payment

Update the Permit Entry with the payment confirmation and transaction ID after successful billing.

10. Generate Compliance Certificate

Create a new entry in the 'Certificates' data model once all inspections are marked as 'Passed'.

11. Notify Applicant of Approval

Send an automated email to the property owner/contractor notifying them that the permit has been issued.

12. Inspection Reminder

Send an SMS alert to the site contractor 24 hours before the scheduled inspection time.

13. Calculate Total Outstanding Fees

Aggregate all unpaid 'Invoices' related to this permit to check for any remaining balance.

14. Remove Rejected Drafts

Delete temporary draft entries that were abandoned or failed initial validation.

15. Monthly Compliance Report

Generate a monthly summary report showing the number of approved vs. rejected permits and average processing time.

End

End of the Workflow/Process.