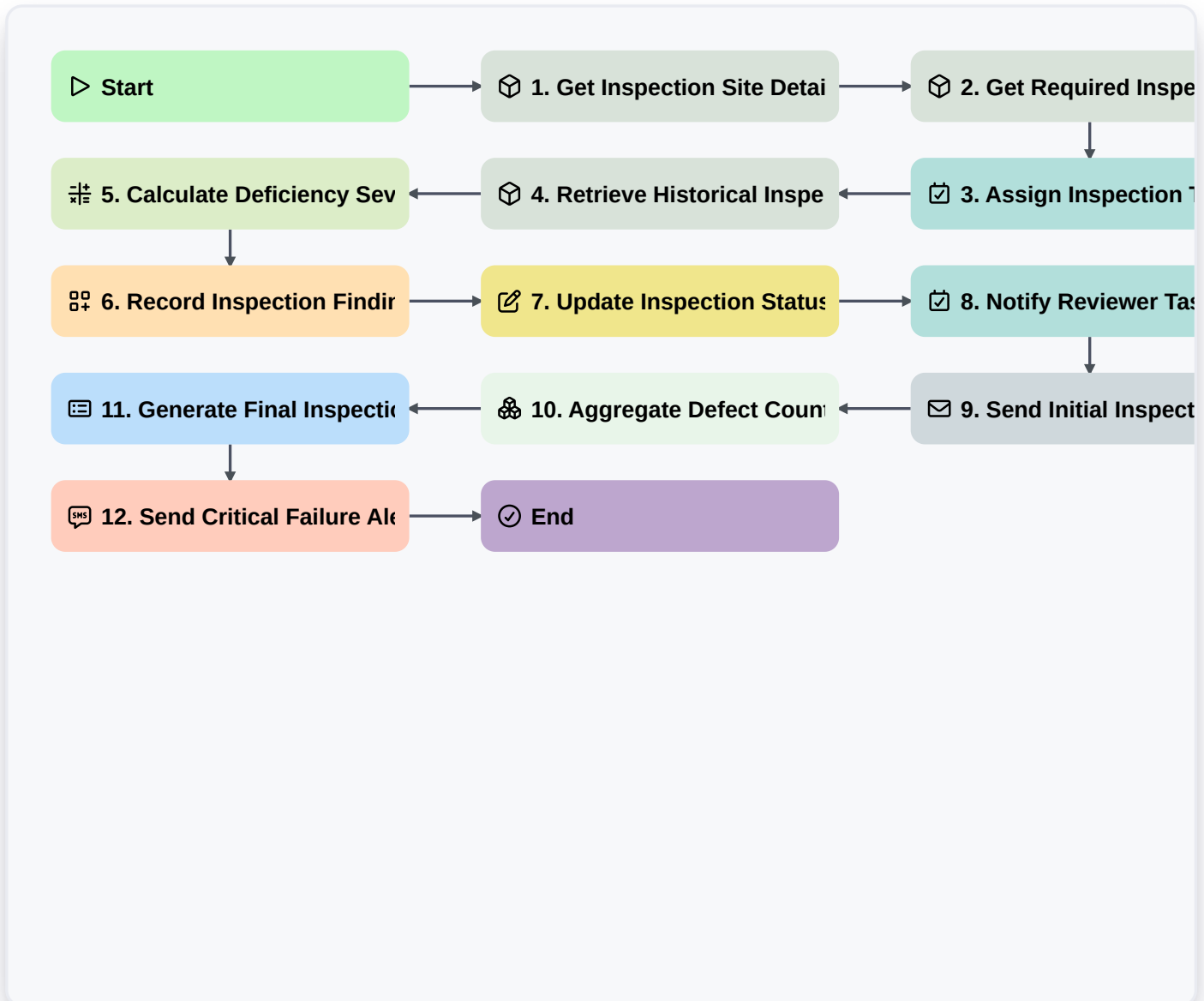


## Streamlined Inspection Workflow Management System



### ▶ Start

Start of the Workflow/Process.

### 1. Get Inspection Site Details

Retrieves predefined site information (e.g., location, asset ID) from the Asset Data Model.

### 2. Get Required Inspection Checklist

Fetches the necessary checklist items and criteria based on the selected inspection type.

### 3. Assign Inspection Task to Inspector

Creates a new task assigned to the assigned inspector user, initiating the inspection process.

### 4. Retrieve Historical Inspection Records

Fetches past inspection data for comparison or compliance checks.

### 5. Calculate Deficiency Severity Score

Executes a formula using collected inspection data to score the overall compliance risk (e.g., sum of weighted failure points).

## **6. Record Inspection Findings/Observations**

Allows the inspector to create a new data entry detailing observations, defects, and notes.

## **7. Update Inspection Status**

Updates the main inspection record status (e.g., 'In Progress' to 'Completed' or 'Failed').

## **8. Notify Reviewer Task Assignment**

Creates a follow-up task assigned to a manager/reviewer to approve the completed inspection.

## **9. Send Initial Inspection Notification**

Sends an automated email notification to the inspector and site supervisor upon task creation.

## **10. Aggregate Defect Counts**

Aggregates the total count of critical, major, and minor defects found across all entries for summary reporting.

## **11. Generate Final Inspection Report**

Compiles all collected data, calculated scores, and observations into a standardized, shareable PDF/digital report.

## **12. Send Critical Failure Alert SMS**

Sends an immediate SMS alert to site management if a critical, unsafe failure is documented.

## **End**

Start of the Workflow/Process.