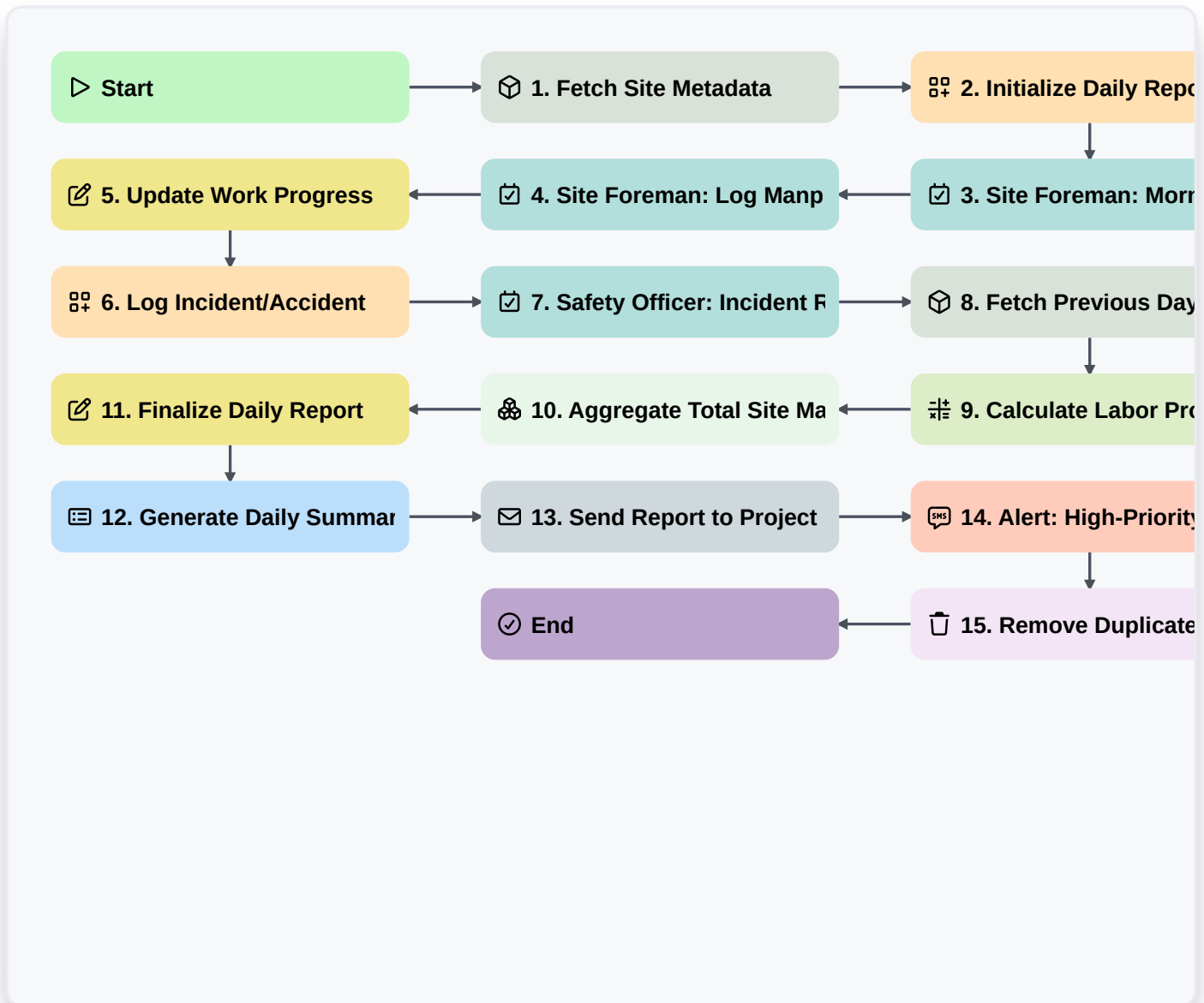


Daily Construction Site Reporting Process



Start

Start of the Workflow/Process.

1. Fetch Site Metadata

Retrieve project details, site location, and supervisor info from the Project Data Model.

2. Initialize Daily Report Entry

Create a new entry in the Daily Report Data Model for the current date and site.

3. Site Foreman: Morning Inspection

Assign a task to the Site Foreman to perform the initial safety and equipment walkthrough.

4. Site Foreman: Log Manpower & Equipment

Assign a task to log the number of workers and heavy machinery present on site today.

5. Update Work Progress

Update the Daily Report entry with specific details regarding tasks completed vs. planned.

6. Log Incident/Accident

If an incident occurs, create a new entry in the Incident Report Data Model.



7. Safety Officer: Incident Review

Trigger a task for the Safety Officer if an Incident Entry was created.

8. Fetch Previous Day's Progress

Retrieve the previous day's completion percentage to compare with today's performance.

9. Calculate Labor Productivity

Calculate the ratio of completed work units vs. total man-hours logged today.

10. Aggregate Total Site Man-Hours

Sum the total hours worked by all subcontractors listed in today's entries.

11. Finalize Daily Report

Update the Daily Report entry status to 'Completed' and lock it for further editing.

12. Generate Daily Summary PDF

Generate a formatted PDF report summarizing all activities, weather, and safety logs for the day.

13. Send Report to Project Manager

Email the generated Daily Summary PDF to the Project Manager and Stakeholders.

14. Alert: High-Priority Delay

Send an SMS alert to the Site Superintendent if the 'Delay' field in the entry is marked as 'Critical'.

15. Remove Duplicate Entries

Clean up any accidentally duplicated daily logs created by users.

End

End of the Workflow/Process.