

Smart Waste Management Tracker – Salesforce Project

Phase 1: Problem Understanding & Industry Analysis

Step 1: Goal of Phase 1

- Understand the problem.
 - Why we are building Smart Waste Management Tracker.
 - Who will use it (stakeholders).
 - What is the expected outcome.
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Step 2: Requirement Gathering

Stakeholders to consider (or imagine for demo):

- Municipal Authorities / Waste Management Company
- City Residents
- Maintenance Teams

Requirements:

1. Track all waste bins in city (location, type).
 2. Track pickup schedules.
 3. Alert if bin is full / needs maintenance.
 4. Generate reports: Weekly/Monthly pickup, recycling rate.
 5. Assign collection tasks to staff.
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Step 3: Stakeholder Analysis

Stakeholder	Role / Use
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Admin (You)	Setup Salesforce objects, flows, user access.
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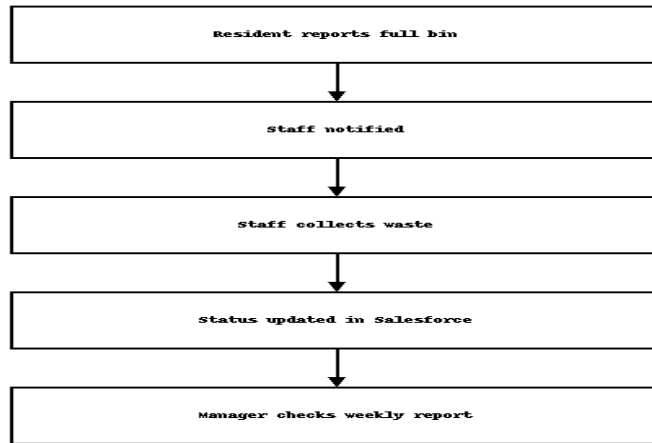
Collection Staff	Update collection status, mark bins full/empty.
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Manager	Monitor city waste stats, generate reports.
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Resident	Report issues, feedback via portal (optional).
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Step 4: Business Process Mapping (Workflow)

Flow:



Resident reports full bin → Staff notified → Staff collects waste → Status updated in Salesforce → Manager checks weekly report

Expected Outcome:

We now have a clear workflow and stakeholder understanding.

This ensures we can design Salesforce objects and automation correctly in the next phases.

Step 5: Industry-Specific Use Case

- Waste bins: **Recyclable, Organic, Non-Recyclable**.
- Pickup frequency varies by **location & bin type**.
- Bins may need **maintenance** if broken/delayed pickup.

Salesforce solution needs to:

- Track bins & types → WasteBin__c (custom object).
- Track collection schedule → CollectionRecord__c (custom object).
- Automate alerts & notifications → Flow + Email Alerts.

- Generate Reports → Daily / Weekly / Monthly dashboards.
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Step 6: AppExchange Exploration

- If we search "Waste Management" in AppExchange → mostly **paid enterprise apps**.
- We will build a **custom simple solution** → Learn Salesforce **Admin + Developer concepts**.