

EcoBin Sync - Project Charter

Project Title	EcoBin Sync - Smart Waste Management System
Project Duration	1 July 2025 – 31 December 2025
Project Manager	Rakhshanda
Software Process Model Used	Agile (Scrum)

Project Objective:
EcoBin Sync aims to revolutionize waste management by integrating IoT-based smart bins, real-time monitoring, and cloud-based analytics to optimize waste collection, reduce operational costs, and promote environmental sustainability.

Project Scope:
The system will include hardware (smart bins with sensors), software (mobile & web apps for monitoring), data analytics, and integration with municipal systems. It will support predictive collection schedules, real-time alerts, and detailed reporting for decision-making.

Deliverable	Description
Smart Bin Hardware	Bins with fill-level and environmental sensors
Mobile Application	Android/iOS app for municipal workers
Web Dashboard	Real-time monitoring for administrators
Cloud Integration	Data storage, analytics, and alerts
Training & Documentation	User manuals and training sessions

- Stakeholders:**
- Municipality Waste Management Department
 - Engineering & Development Team
 - End Users (Municipal Workers & Citizens)
 - Environmental Agencies
 - Cloud Service Providers

Approval Signatures:
Project Sponsor: _____
Project Manager: _____