WASTE COLLECTION MANAGEMENT SYSTEM

Indian Institute of Technology Mandi

INTRODUCTION

A smart waste management system that detects and classifies waste automatically for proper and eco-friendly disposal. " Just show your waste, and let technology handle the rest! "

OBJECTIVE

- To implement a management system that integrates all the waste collection processes in IIT Mandi.
- To boost recycling by accurately directing waste.

HOW IT WORKS

SMART DETECTION
Place waste in front of the Camera.

AUTOMATED SORTING
Using AI/ML and sensors, the processor analyzes the waste type (plastic, organic, metal, etc.).
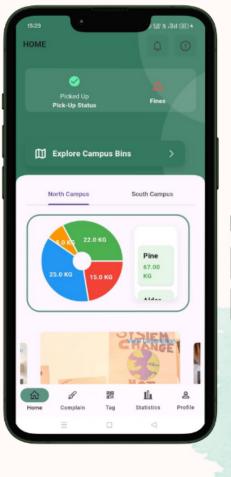
DISPOSAL
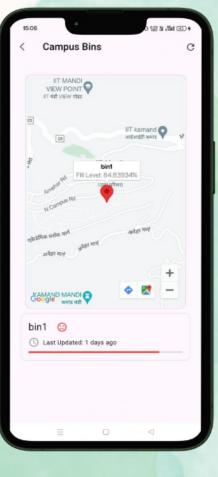The appropriate bin lid opens automatically to receive the waste, ensuring efficient sorting.

ADVANTAGES

- Efficient Waste Management
- Adaptive AI model for classification.
- Promotes recycling and minimizes waste processing cost.
- Touchless operation for better hygiene and safety.

SCAVENGER APP

KEY FEATURES

- Bin Locations
- Real-time monitoring
- Unique tag ID
- Dynamic complaint system
- Mess waste monitoring
- Bin Live Status
- Quick scanner for pick up

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" Smart Bin: Sorting Smarter, Living Cleaner. Join us in building a sustainable future! "