

# SegreSmart – Municipal Waste Management Dashboard Compliance Report

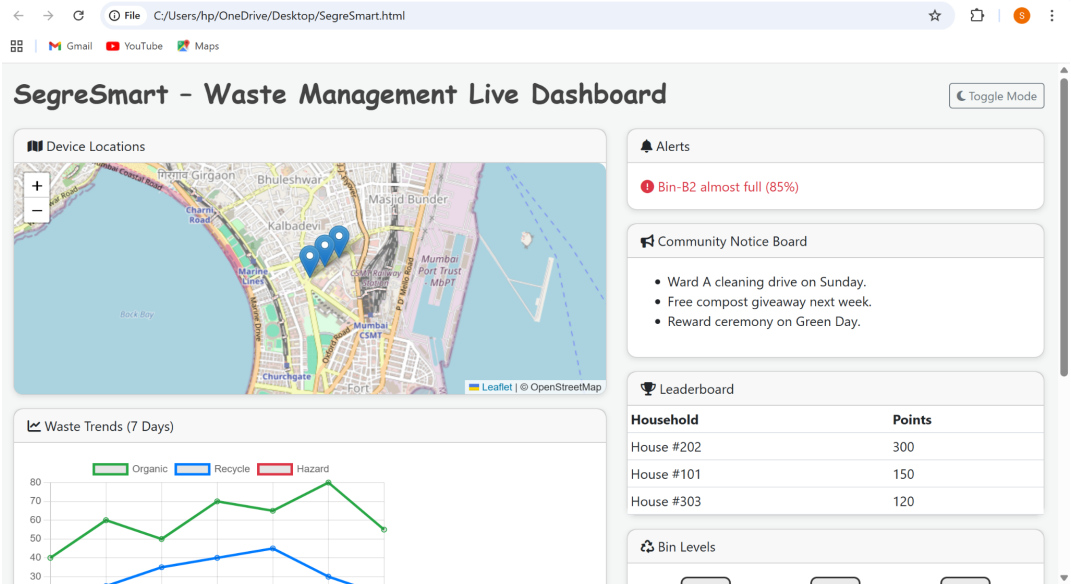
This compliance report summarizes the design, implementation, and performance outcomes of the SegreSmart Waste Management Dashboard. The dashboard is intended for municipal corporations to monitor real-time waste levels, trends, and alerts for efficient waste collection and segregation.

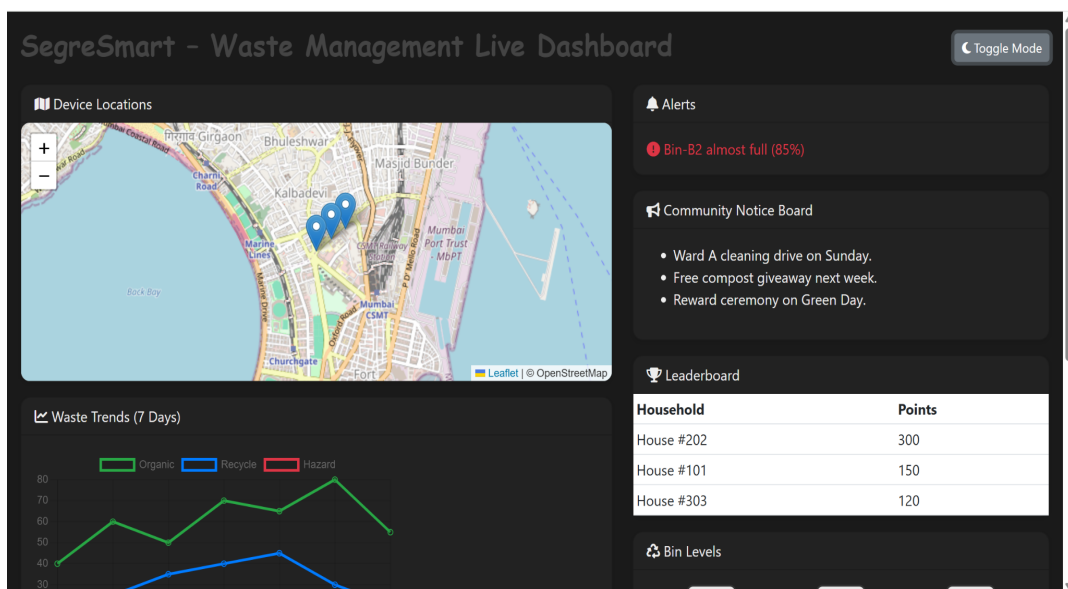
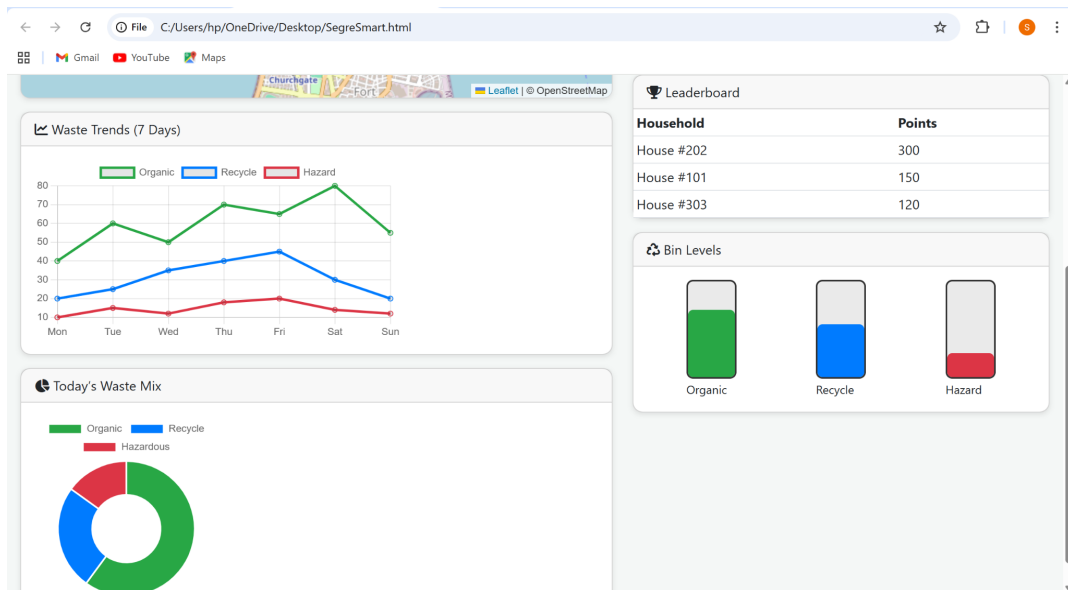
## Entities Monitored

Entity	Description
Device Locations	Displays real-time GPS positions of smart bins on a city map
Alerts	Indicates bins nearing capacity with percentage fill level
Community Notice Board	Shows announcements for cleanliness drives and events
Leaderboard	Encourages households to participate in recycling and waste reduction
Bin Levels	Real-time visualization of Organic, Recyclable, and Hazardous bin status
Waste Trends	Tracks daily waste generation trends for different categories
Today's Waste Mix	Pie chart representation of organic, recyclable, and hazardous waste

## Dashboard Results

The dashboard successfully tracked waste segregation and bin fill levels across multiple locations in real time. Below are snapshots of the running dashboard.





## Graphical Analysis

The dashboard includes key data visualizations for waste monitoring: - Line graph for daily waste trends (Organic, Recyclable, Hazardous). - Pie chart for today's waste mix percentage distribution. - Bin fill-level gauges showing current load status.

## Compliance Summary

The SegreSmart dashboard complies with the following municipal requirements: - Real-time monitoring of waste bins across wards. - Early alerts for bins nearing capacity to prevent overflow. - Engagement features (Leaderboard & Notice Board) to drive public participation. - Simple, mobile-friendly interface for officers and operators.