
QR-Based Digital Monitoring System for Public Sanitation Operations

Solution Category

Sanitation Monitoring | Smart Governance | Public Infrastructure Digitization

Overview

SNOH Housekeeping is a QR-based Digital Monitoring System designed to enable structured, transparent, and auditable housekeeping operations across public infrastructure.

The system supports real-time verification of cleaning tasks, contractor performance tracking, and multi-level monitoring for Government departments and Urban Local Bodies.

SNOH operates strictly as a technology provider and does not engage in manpower or contractor services.

Problem Addressed

Public sanitation monitoring often relies on:

- Manual registers
- Supervisor-based verification
- Limited audit traceability
- Lack of real-time visibility

This creates gaps in compliance monitoring and contractor accountability.

Proposed Digital Framework

Each public asset is digitally structured as:

City / Department → Facility → Floor / Zone → Area → QR Code → Assigned Tasks

Cleaning staff scan QR codes after completing assigned tasks.

The system securely logs:

- Staff identity
- Timestamp
- Task type
- Location hierarchy

All data is accessible via monitoring dashboards.

Key Capabilities

- ✓ QR-based task verification
 - ✓ Scheduled housekeeping tracking (hourly/daily)
 - ✓ Real-time dashboard monitoring
 - ✓ Contractor performance visibility
 - ✓ Missed task identification
 - ✓ Audit-ready digital records
 - ✓ Multi-level access (Contractor / ULB / Department / State)
 - ✓ API & Webhook integration capability
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Alignment with Government Initiatives

The system supports:

- Swachh Bharat Mission 2.0 objectives
- Institutional sanitation strengthening
- Smart City digital governance

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- Data-driven performance monitoring
 - Outcome-based sanitation tracking

The platform is modular and API-ready, enabling integration with Command & Control Centers and other Government IT systems.

Future-Ready Capabilities (Optional Phase)

- Citizen visibility of nearby public washrooms
- Display of last cleaned timestamp
- Public feedback integration
- Cleanliness Compliance Index

Activation of public-facing features remains subject to Government approval.

Implementation Model

- Technology-only platform
 - No manpower involvement
 - No interference in contractor selection
 - Scalable across wards, cities, and departments
 - Subscription / deployment-based engagement
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Ideal Use Cases

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- Public washrooms
 - Bus stands & transport hubs
 - Government buildings
 - Parks & public spaces
 - High-footfall urban infrastructure
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Demonstration

System workflow demonstration available upon request.