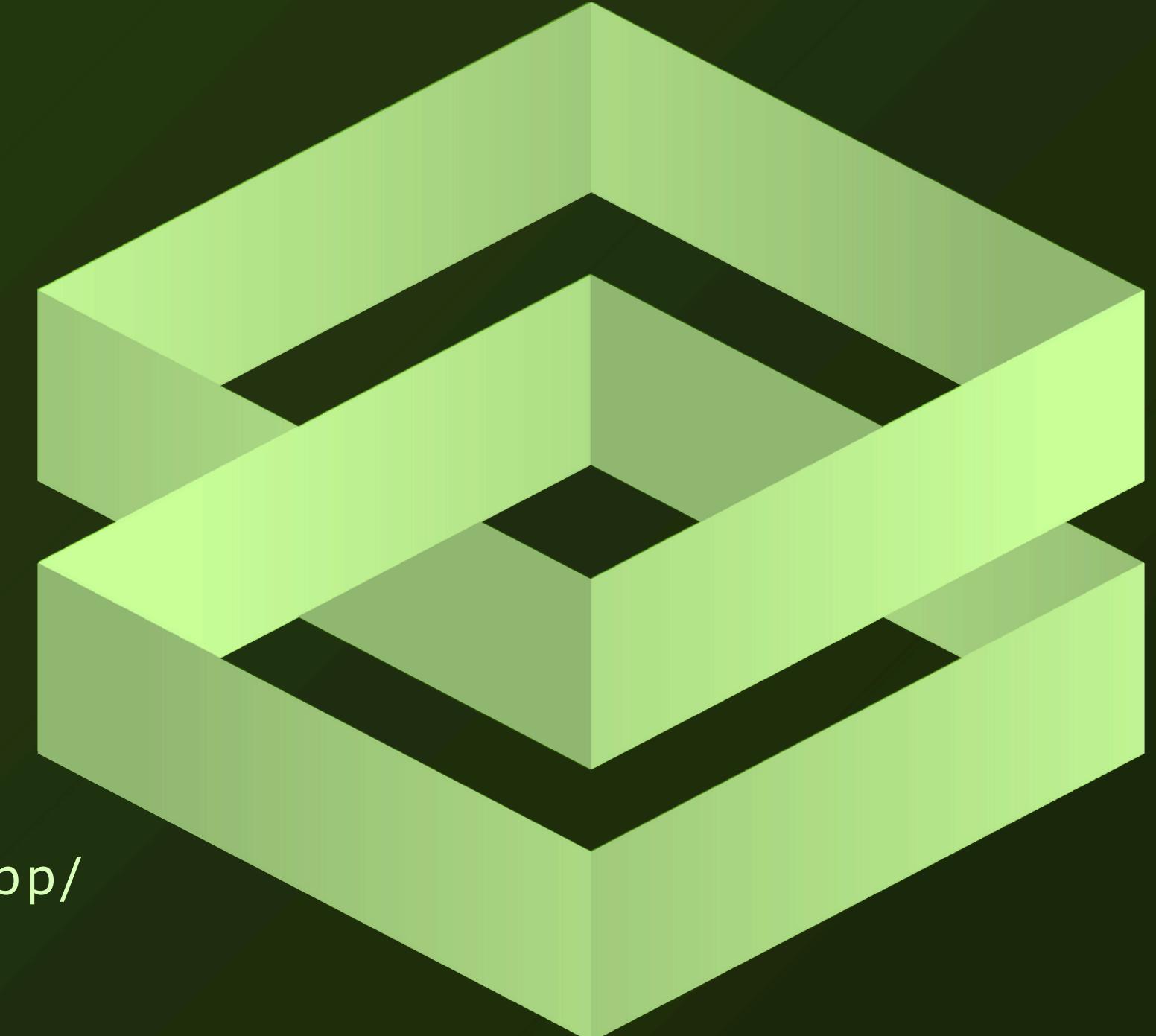




AVINYA INNOVATE 2026

HackVerse

Deployment link: <https://swachhprahari.vercel.app/>





PROBLEM STATEMENT

Delhi's Cleanliness Crisis Needs Community-Powered Action

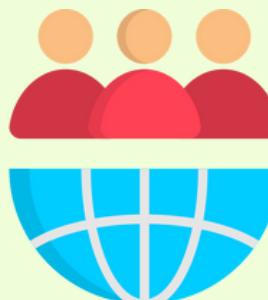
THE GROUND REALITY

- India generates 1.6 lakh+ tonnes waste daily; only ~60% processed. (CPCB)
- Delhi produces 11,000+ TPD, landfills near saturation. (MCD)
- Many garbage complaints remain unresolved. (TOI/NCR reports)
- No real-time civic coordination or transparent tracking system.

CURRENT SYSTEM GAPS

Citizens →

- No easy way to organize cleanups.
- Individual efforts feel useless.



Authorities →

- Limited manpower
- Delayed reporting
- No community mobilization



What if every citizen could become an active cleanup force — coordinated by AI?

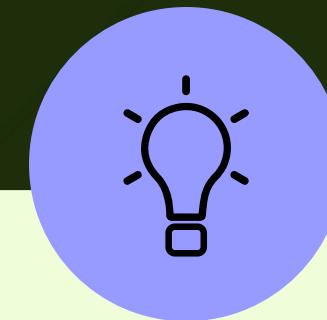




SOLUTION

CLEANCONNECT DELHI – AI POWERED COMMUNITY CLEANUP PLATFORM

A platform that uses AI to identify dirty areas, mobilize nearby volunteers, and verify cleanup impact in real time.



Smart Issue Detection

FIRST MILESTONE

- Citizens upload images of dirty areas.
- AI analyzes waste density and estimates cleanup effort.



Intelligent Volunteer Mobilization

SECOND MILESTONE

- Nearby users are automatically notified.
- Volunteers form cleanup groups with optimized manpower.



Verified Action + Rewards

THIRD MILESTONE

- After cleanup, AI verifies improvement using before-after images.
- Contributors earn Green Credits and impact recognition.

Upload Area

AI Analysis

Volunteer Match

Cleanup

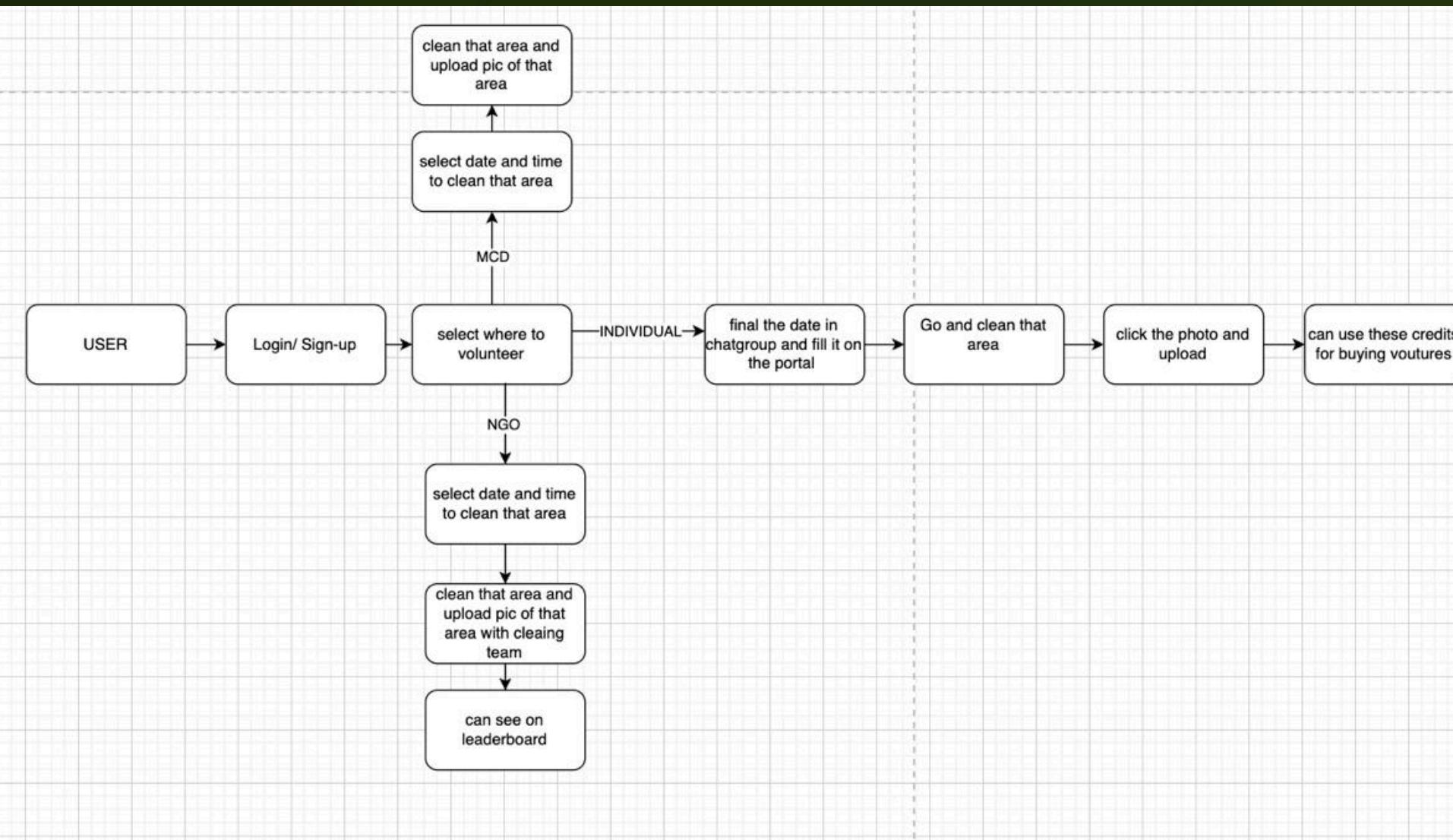
AI Verification

Rewards + Impact





ARCHITECTURE



Swachh Prahari

Home Leaderboard About Us Contact Us Login

Together We Clean. Together We Rise.

Swachh Prahari connects citizens who care about cleanliness. Post areas that need attention, volunteer to clean, and build a cleaner community — one action at a time.

Every photo shared is a step towards change. Every volunteer is a hero.

Join The Movement

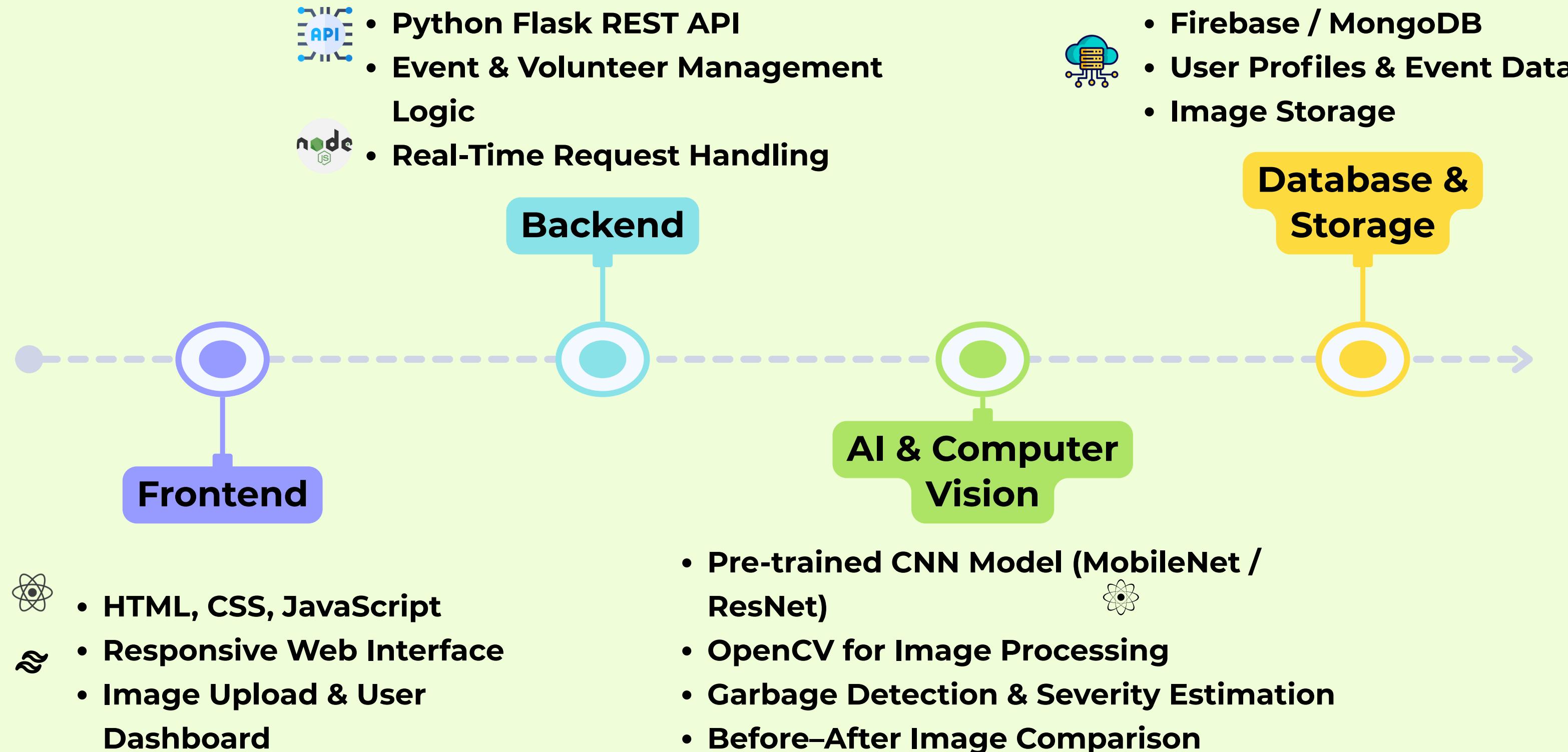


N





TECHNOLOGY USED





FEATURE/USP

📍 Issue Upload System

Users upload dirty area images with location tagging.

⚡ Real-Time Community Mobilization

Nearby volunteers receive instant cleanup notifications.

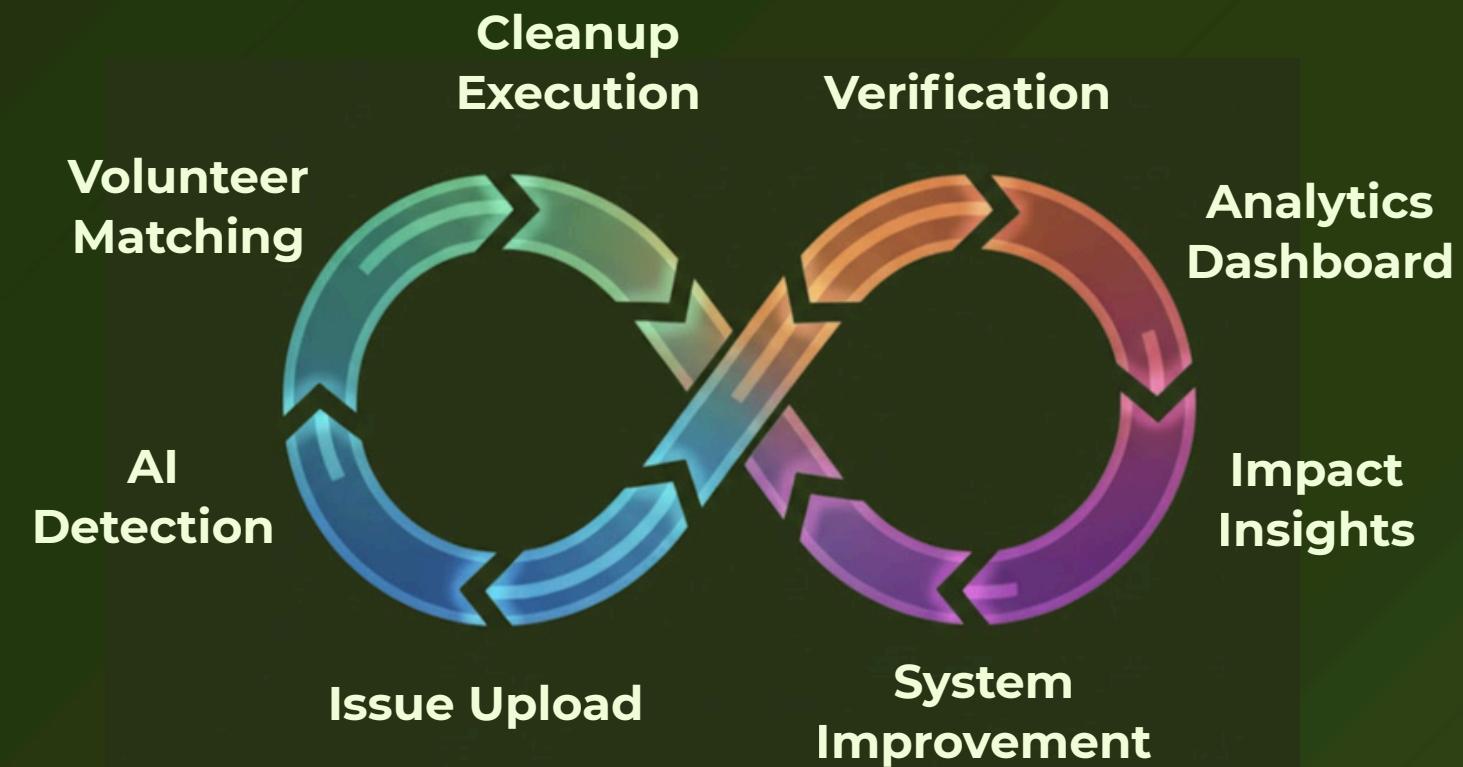
🏆 Gamified Green Credits

Reward points motivate consistent citizen participation.

📊 Live Impact Dashboard

Displays cleanups completed, volunteers involved, and environmental impact.

SEAMLESS OPERATIONS + CONTINUOUS INTELLIGENCE



KEY DIFFERENTIATORS (USP)

AI-Powered Cleanup Detection



Automatically detects garbage severity and predicts required manpower.

Smart Volunteer Capacity Control



AI auto-locks registrations when optimal volunteer count is reached.

Verified Action System



Before-after image verification ensures only real cleanups are rewarded.



FEASIBILITY IN REAL LIFE

Deployment Ready

- Web-based platform — no hardware required
- Works on existing smartphones
- Can be piloted in campuses, parks, and local communities
- Minimal setup and onboarding effort

Technically Practical

- Uses pre-trained AI models
- Lightweight backend architecture
- Low compute and hosting cost
- Reliable open-source tools

Scalable & Sustainable

- City-independent design
- Modular feature expansion
- Supports large user base
- Data-driven system improvement

WHY PEOPLE WILL JOIN & STAY

Social Recognition

- Leaderboards
- Public profile credibility
- Digital contribution badges

Rewards & Incentives

- Voucher-based Green Coin system
- Redeemable benefits and perks

Community Impact

- Visible environmental contribution
- Real-world change participation

Brand Visibility for Partners

- NGO branding during cleanup drives
- CSR exposure for sponsoring organizations



THANK YOU