

A role-based waste collection management system for Admins, Truck Drivers, Garbage Collectors, Barangay Heads, and Residents.

This README is structured for quick onboarding and prelim defense preparation.

1) System Overview

KOLEKTRASH streamlines municipal solid waste collection through role-based workflows, daily route scheduling, task assignment, notifications, and citizen engagement (issue reporting, schedules, feedback).

- Frontend: React + Vite (SPA) under the project root src/
- Backend: PHP (procedural + helpers) under backend/ with REST-like endpoints in backend/api/
- Database: MySQL/MariaDB (PDO, prepared statements)
- Deployment: Static build to dist/ + PHP API hosted together (e.g., Hostinger cPanel)

2) Core Features by Role

- Admin
 - Manage users, routes, daily schedules, and assignments
 - Monitor barangay activities, issues, feedback
 - Approve/manage special pickup requests
- Truck Driver
 - View assigned routes and tasks, run live route view
 - Receive notifications and update task status
- Garbage Collector
 - View tasks, schedules, and assigned routes
 - Update progress and receive notifications
- Barangay Head
 - Submit special pickup requests, view schedules, IEC
 - Monitor barangay issues and notifications
- Resident
 - View collection schedules and IEC
 - Report issues and submit feedback

See role guides in docs/roles/ for more details.

