

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.

