

## Project Objective

Municipal Waste Management System is an integrated platform that aims to:

- Improve waste management in the city
- Facilitate waste reporting
- Track report status and scheduling
- Provide interactive waste location mapping
- Manage waste collection schedules

## Database Schema

- 2024\_01\_10\_000000\_create\_users\_table.php
- 2024\_01\_10\_000007\_create\_sessions\_table.php
- 2024\_01\_10\_000008\_create\_sites\_table.php
- 2024\_01\_10\_000009\_create\_waste\_reports\_table.php
- 2024\_01\_10\_000010\_create\_comments\_table.php
- 2024\_01\_10\_000011\_create\_garbage\_schedules\_table.php
- 2024\_01\_10\_000013\_create\_cache\_table.php
- 2024\_01\_10\_000014\_create\_notification\_preferences\_table.php
- 2024\_01\_10\_000015\_add\_frequency\_and\_notes\_to\_garbage\_schedules\_table.php
- 2024\_01\_15\_000001\_add\_coordinates\_to\_waste\_reports\_table.php
- 2024\_01\_20\_000001\_create\_bus\_schedules\_table.php
- 2024\_04\_20\_000000\_create\_locations\_table.php
- 2024\_04\_20\_000001\_create\_garbage\_truck\_schedules\_table.php

- 2025\_04\_19\_231320\_create\_permission\_tables.php
- 2025\_04\_22\_144001\_remove\_role\_column\_from\_users\_table.php
- 2025\_04\_22\_144530\_update\_app\_config\_with\_spatie\_provider.php
- 2025\_04\_22\_145301\_fix\_comment\_dates.php
- 2025\_04\_22\_180000\_create\_bus\_times\_table.php
- 2025\_04\_22\_190000\_create\_waste\_types\_table.php
- 2025\_04\_22\_190100\_update\_waste\_reports\_table.php
- 2025\_04\_22\_190101\_remove\_type\_from\_waste\_reports\_table.php
- 2025\_04\_22\_190200\_update\_comments\_table.php
- 2025\_04\_29\_000001\_add\_quantity\_and\_unit\_to\_waste\_reports.php
- 2025\_04\_29\_000008\_copy\_site\_ids\_to\_locations.php
- 2025\_04\_30\_000008\_create\_location\_worker\_table.php
- 2025\_05\_13\_000001\_add\_phone\_number\_to\_users\_table.php
- 2025\_05\_13\_000002\_add\_coordinates\_to\_locations\_table.php

- 2025\_05\_13\_000003\_rename\_image\_url\_to\_image\_path\_in\_waste\_reports\_table.php
- 2025\_05\_14\_000001\_rename\_user\_id\_to\_reported\_by\_in\_waste\_reports\_table.php
- 2025\_05\_14\_000002\_update\_waste\_reports\_structure.php
- 2025\_05\_14\_000003\_add\_urgency\_level\_to\_waste\_reports.php
- 2025\_05\_14\_000004\_modify\_urgency\_level\_in\_waste\_reports.php
- 2025\_05\_14\_000005\_make\_site\_id\_nullable\_in\_waste\_reports.php
- 2025\_05\_15\_000001\_add\_is\_active\_and\_last\_login\_to\_users\_table.php
- 2025\_05\_16\_000001\_add\_status\_to\_garbage\_schedules\_table.php
- 2025\_05\_21\_000001\_add\_soft\_deletes\_to\_users\_table.php
- 2025\_05\_21\_224506\_create\_role\_user\_table.php
- 2025\_05\_22\_000001\_create\_plaintes\_table.php

## UI Pages

- resources/views/bus-times.blade.php
- resources/views/conservation-tips-simple.blade.php
- resources/views/conservation-tips.blade.php
- resources/views/dashboard-with-roles.blade.php
- resources/views/dashboard.blade.php
- resources/views/statistics.blade.php
- resources/views/terms.blade.php
- resources/views/waste-map.blade.php
- resources/views/welcome.blade.php
- resources/views/admin/dashboard.blade.php
- resources/views/admin/statistics.blade.php
- resources/views/admin/bus-schedules/create.blade.php
- resources/views/admin/bus-schedules/edit.blade.php

- resources/views/admin/bus-schedules/index.blade.php
- resources/views/admin/reports/edit.blade.php
- resources/views/admin/reports/index.blade.php
- resources/views/admin/schedules/create.blade.php
- resources/views/admin/schedules/index.blade.php
- resources/views/admin/sites/index.blade.php
- resources/views/admin/types/index.blade.php
- resources/views/admin/users/create.blade.php
- resources/views/admin/users/edit.blade.php
- resources/views/admin/users/index.blade.php
- resources/views/admin/waste-types/create.blade.php
- resources/views/admin/waste-types/edit.blade.php
- resources/views/admin/waste-types/form.blade.php
- resources/views/admin/waste-types/index.blade.php

- resources/views/admin/waste\_types/create.blade.php
- resources/views/admin/waste\_types/index.blade.php
- resources/views/admin/workers/index.blade.php
- resources/views/admin/workers/reports/edit.blade.php
- resources/views/admin/workers/reports/index.blade.php
- resources/views/auth/confirm-password.blade.php
- resources/views/auth/forgot-password.blade.php
- resources/views/auth/login.blade.php
- resources/views/auth/register.blade.php
- resources/views/auth/reset-password.blade.php
- resources/views/auth/verify-email.blade.php
- resources/views/bus-times/create.blade.php
- resources/views/bus-times/edit.blade.php
- resources/views/bus-times/index.blade.php

- resources/views/bus-times/manage.blade.php
- resources/views/components/application-logo.blade.php
- resources/views/components/auth-session-status.blade.php
- resources/views/components/button.blade.php
- resources/views/components/conservation-nav.blade.php
- resources/views/components/danger-button.blade.php
- resources/views/components/dropdown-link.blade.php
- resources/views/components/dropdown.blade.php
- resources/views/components/edit-truck-schedule-modal.blade.php
- resources/views/components/input-error.blade.php
- resources/views/components/input-label.blade.php
- resources/views/components/modal.blade.php
- resources/views/components/nav-link.blade.php
- resources/views/components/primary-button.blade.php



- resources/views/components/responsive-nav-link.blade.php
- resources/views/components/role-based-container.blade.php
- resources/views/components/role-button.blade.php
- resources/views/components/role-container.blade.php
- resources/views/components/role-dropdown-link.blade.php
- resources/views/components/role-form.blade.php
- resources/views/components/role-input.blade.php
- resources/views/components/role-layout.blade.php
- resources/views/components/role-nav-link.blade.php
- resources/views/components/role-responsive-nav-link.blade.php
- resources/views/components/role-select.blade.php
- resources/views/components/role-styles.blade.php
- resources/views/components/secondary-button.blade.php
- resources/views/components/text-input.blade.php

- resources/views/examples/role-components.blade.php
- resources/views/garbage-schedules/index.blade.php
- resources/views/garbage-truck-schedules/create.blade.php
- resources/views/garbage-truck-schedules/edit.blade.php
- resources/views/garbage-truck-schedules/index.blade.php
- resources/views/layouts/app.blade.php
- resources/views/layouts/guest.blade.php
- resources/views/layouts/map.blade.php
- resources/views/layouts/navigation.blade.php
- resources/views/layouts/role-app.blade.php
- resources/views/layouts/role-navigation.blade.php
- resources/views/locations/reports.blade.php
- resources/views/profile/edit.blade.php
- resources/views/profile/partials/delete-user-form.blade.php

- resources/views/profile/partials/update-password-form.blade.php
- resources/views/profile/partials/update-profile-information-form.blade.php
- resources/views/reports/create.blade.php
- resources/views/reports/index.blade.php
- resources/views/reports/map.blade.php
- resources/views/reports/show.blade.php
- resources/views/schedules/create.blade.php
- resources/views/schedules/edit.blade.php
- resources/views/schedules/index.blade.php
- resources/views/schedules/show.blade.php
- resources/views/sites/create.blade.php
- resources/views/sites/edit.blade.php
- resources/views/sites/index.blade.php
- resources/views/sites/map.blade.php

- resources/views/sites/show.blade.php
- resources/views/user/dashboard.blade.php
- resources/views/waste-reports/create-with-roles.blade.php
- resources/views/waste-reports/create.blade.php
- resources/views/waste-reports/edit.blade.php
- resources/views/waste-reports/index.blade.php
- resources/views/waste-reports/map.blade.php
- resources/views/waste-reports/multi-step-create-scripts.blade.php
- resources/views/waste-reports/multi-step-create.blade.php
- resources/views/waste-reports/select-location.blade.php
- resources/views/waste-reports/show.blade.php
- resources/views/worker/bus-schedules/edit.blade.php
- resources/views/worker/bus-schedules/index.blade.php

# Models

- BusSchedule.php
- BusTime.php
- Comment.php
- GarbageSchedule.php
- GarbageTruckSchedule.php
- Location.php
- NotificationFailure.php
- NotificationPreference.php
- NotificationSchedule.php
- Role.php
- Site.php
- User.php
- WasteReport.php



# Technical Requirements

## Core Requirements:

- Laravel 10.x
- PHP 8.2
- MySQL 8.0
- Node.js & NPM
- Composer

## Libraries & Add-ons:

- Tailwind CSS
- Alpine.js
- Spatie Permissions
- Leaflet.js for maps
- FPDF for reports
- Laravel Sanctum for authentication