# **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**

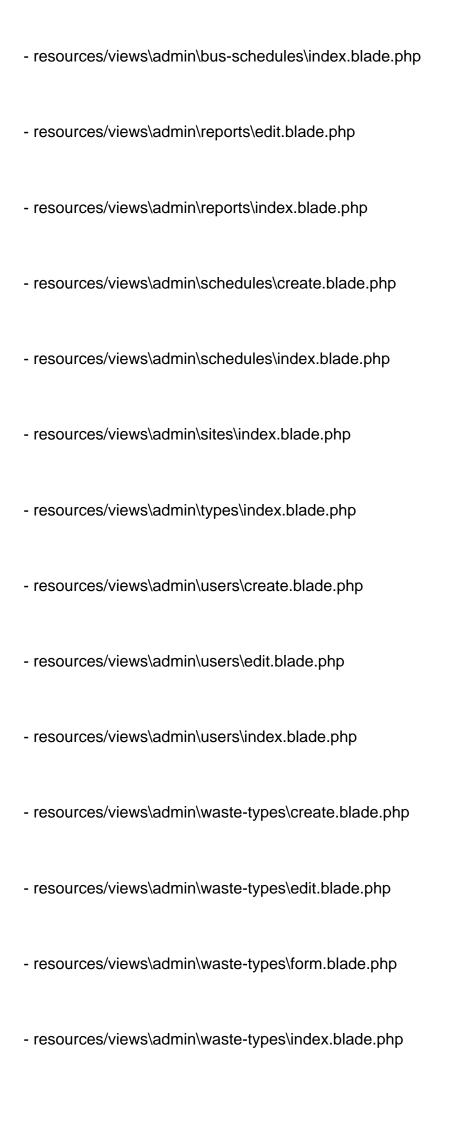
- 2024\_01\_10\_000000\_create\_users\_table.php
- 2024\_01\_10\_000007\_create\_sessions\_table.php
- 2024\_01\_10\_000008\_create\_sites\_table.php
- 2024\_01\_10\_000009\_create\_waste\_reports\_table.php
- 2024\_01\_10\_000010\_create\_comments\_table.php
- 2024\_01\_10\_000011\_create\_garbage\_schedules\_table.php
- 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

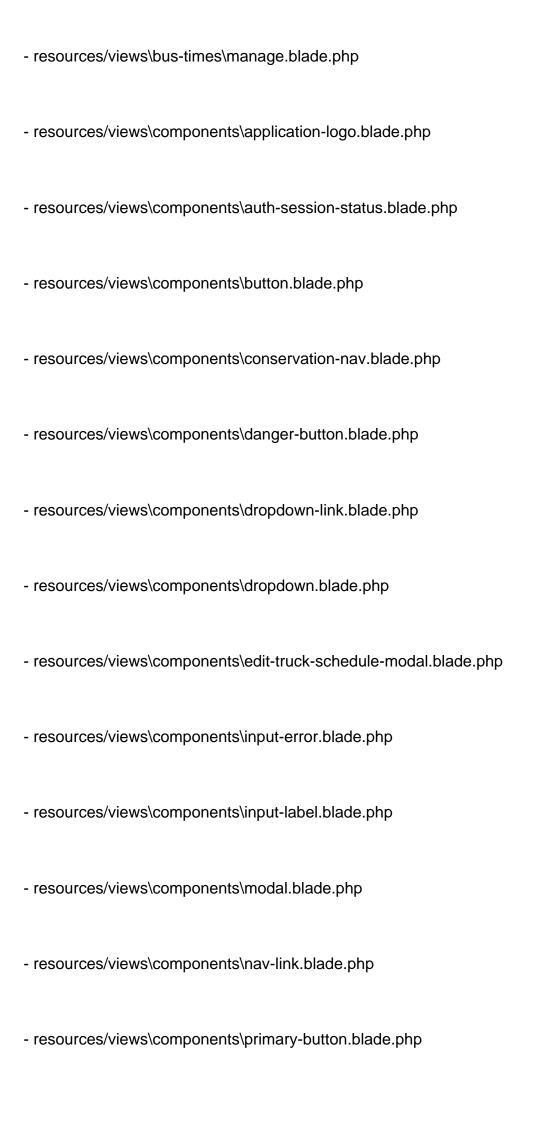
- 2025\_05\_13\_000003\_rename\_image\_url\_to\_image\_path\_in\_waste\_reports\_table.php
- 2025\_05\_14\_000001\_rename\_user\_id\_to\_reported\_by\_in\_waste\_reports\_table.php
- 2025\_05\_14\_000002\_update\_waste\_reports\_structure.php
- 2025\_05\_14\_000003\_add\_urgency\_level\_to\_waste\_reports.php
- 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

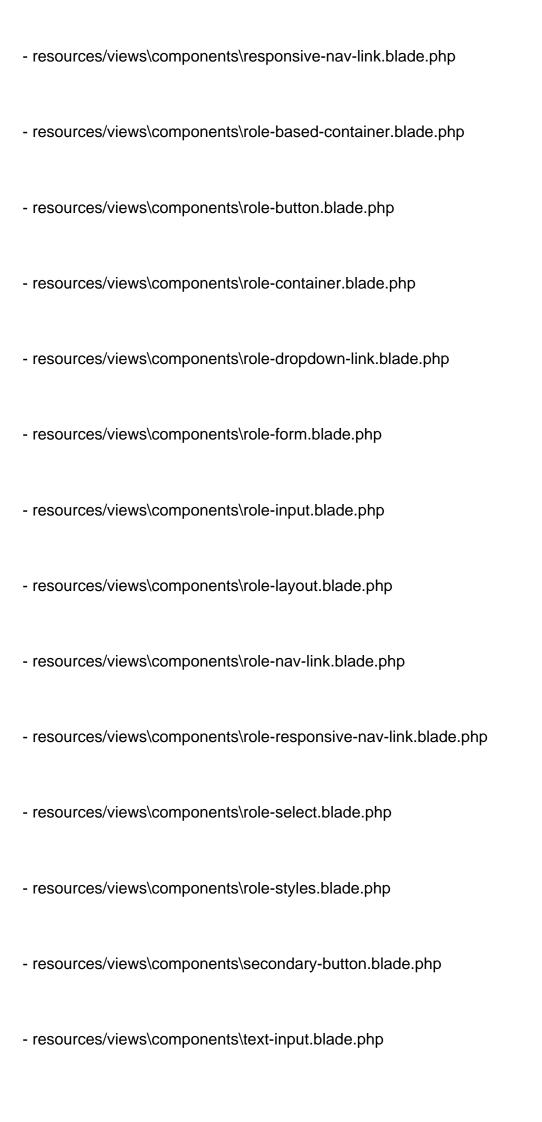
### **UI Pages**

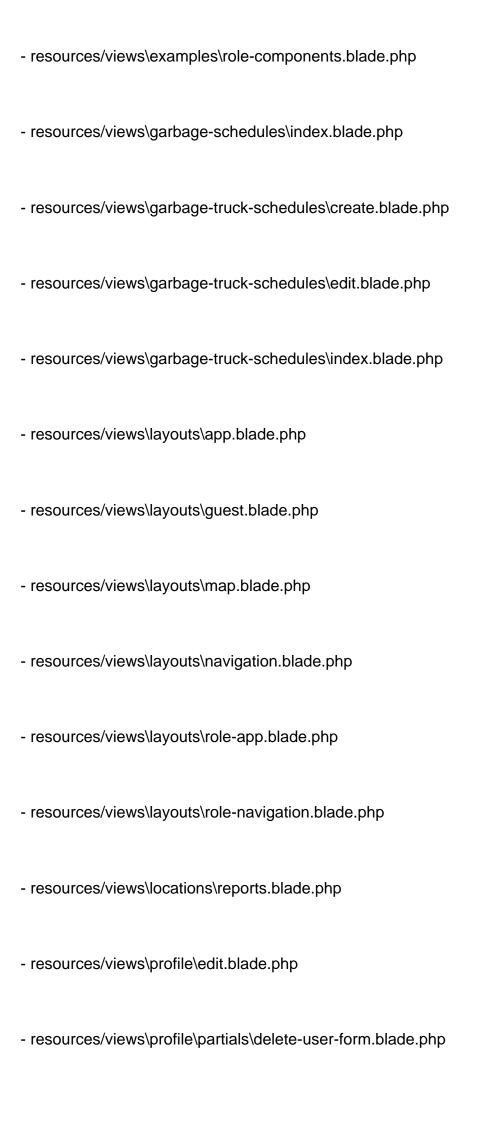














- resources/views\sites\show.blade.php
- resources/views\user\dashboard.blade.php
- resources/views\waste-reports\create-with-roles.blade.php
- resources/views\waste-reports\create.blade.php
- resources/views\waste-reports\edit.blade.php
- resources/views\waste-reports\index.blade.php
- resources/views\waste-reports\map.blade.php
- 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

- WasteType.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