PROJECT REQUIREMENT SPECIFICATIONS

60% Expected/ Working Requirements

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| User Group | Requirement(s) | Requirement Description |
| ADMIN | Login | login feature that allows authorized users to access the system securely. Users will be required to enter valid credentials (username and password) to gain access to the dashboard and its functionalities. |
|  | Dashboard | The dashboard should serve as the main interface for authorized users and provide an overview of various modules and data related to the system. |
|  | Employees | This section should display some option including office staff, drivers, and crew members. |
|  | Office Staff | This section should display a list of Office Staff, including options, show row and actions. |
|  | Add Office Staff | An option to add new office staff members should be available within the Employees section. This functionality will allow authorized users to input relevant details of new office staff members. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Row | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Actions | A set of actions should be available for each data row, allowing users to perform specific tasks related to the selected item such us Edit and Delete |
|  | Drivers | This section should display a list of Drivers, including options, show row and actions. |
|  | Add Driver | An option to add new Driver should be available within the Employees section. This functionality will allow authorized users to input relevant details of new Driver. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Rows | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Action | A set of actions should be available for each data row, allowing users to perform specific tasks related to the selected item such us Edit and Delete |
|  | Crew members | This section should display a list of Crew member, including options, show row and actions. |
|  | Add Crew Members | An option to add new Cree Member should be available within the Employees section. This functionality will allow authorized users to input relevant details of new Crew Member. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Rows | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Actions | A set of actions should be available for each data row, allowing users to perform specific tasks related to the selected item such us Edit and Delete |
|  | Vehicles | This section should display some option, including Garbage Truck, Fuel, Maintenance. |
|  | Garbage Truck | This section should display a list of Garbage Truck, including options, show row and actions. |
|  | Add Garbage Truck | An option to add new Garbage Truck should be available within the Vehicle section. This functionality will allow authorized users to input relevant details of new Crew Member. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Row | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Tracking | This section should display some option, including Current Location, Route Optimization, and Traffic Management. |
|  | Current Location | The system should include a feature that enables real-time tracking and display of the current location of various assets, particularly focusing on vehicles such as garbage trucks. |
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| DRIVERS | Login | login feature that allows authorized users to access the system securely. Users will be required to enter valid credentials (username and password) to gain access to the dashboard and its functionalities. |
|  | Dashboard | The dashboard should serve as the main interface for authorized users and provide an overview of various modules and data related to the system. |
|  | Employees | This section should display some option including drivers, and crew members. |
|  | Drivers | This section should display a list of Drivers, including options, show row and actions. |
|  | Add Driver | An option to add new Driver should be available within the Employees section. This functionality will allow authorized users to input relevant details of new Driver. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Rows | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Action | A set of actions should be available for each data row, allowing users to perform specific tasks related to the selected item such us Edit and Delete |
|  | Crew members | This section should display a list of Crew member, including options, show row and actions. |
|  | Add Crew Members | An option to add new Crew Member should be available within the Employees section. This functionality will allow authorized users to input relevant details of new Crew Member. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Rows | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Actions | A set of actions should be available for each data row, allowing users to perform specific tasks related to the selected item such us Edit and Delete |
|  | Vehicles | This section should display some option, including Garbage Truck, Fuel, Maintenance. |
|  | Garbage Truck | This section should display a list of Garbage Truck, including options, show row and actions. |
|  | Add Garbage Truck | An option to add new Garbage Truck should be available within the Vehicle section. This functionality will allow authorized users to input relevant details of new Crew Member. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Row | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Actions | A set of actions should be available for each data row, allowing users to perform specific tasks related to the selected item such us Edit and Delete |
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| STAFF | Login | login feature that allows authorized users to access the system securely. Users will be required to enter valid credentials (username and password) to gain access to the dashboard and its functionalities. |
|  | Dashboard | The dashboard should serve as the main interface for authorized users and provide an overview of various modules and data related to the system. |
|  | Employees | This section should display some option including drivers, and crew members. |
|  | Drivers | This section should display a list of Drivers, including options, show row and actions. |
|  | Add Driver | An option to add new Driver should be available within the Employees section. This functionality will allow authorized users to input relevant details of new Driver. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Rows | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Action | A set of actions should be available for each data row, allowing users to perform specific tasks related to the selected item such us Edit and Delete |
|  | Crew members | This section should display a list of Crew member, including options, show row and actions. |
|  | Add Crew Members | An option to add new Crew Member should be available within the Employees section. This functionality will allow authorized users to input relevant details of new Crew Member. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Rows | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Actions | A set of actions should be available for each data row, allowing users to perform specific tasks related to the selected item such us Edit and Delete |
|  | Vehicles | This section should display some option, including Garbage Truck, Fuel, Maintenance. |
|  | Garbage Truck | This section should display a list of Garbage Truck, including options, show row and actions. |
|  | Add Garbage Truck | An option to add new Garbage Truck should be available within the Vehicle section. This functionality will allow authorized users to input relevant details of new Crew Member. |
|  | Options | The system should provide various options that can be performed for exporting and Column Visibility, such as copy, CSV, Excel, PDF, and Print |
|  | Show Row | This feature should enable users to view additional details or expand the information displayed for each data row |
|  | Actions | A set of actions should be available for each data row, allowing users to perform specific tasks related to the selected item such us Edit and Delete |
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PROJECT REQUIREMENT SPECIFICATIONS

40% Remaining Requirements

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| User Group | Requirement(s) | Requirement Description |
| Residents | View Garbage Truck Location | The "View Garbage Truck Location" feature aims to provide users, such as city officials, waste management supervisors, or residents, with real-time tracking and visualization of the current location of garbage trucks. This feature will assist in monitoring and optimizing garbage collection routes, ensuring timely and efficient waste management operations. |
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| ADMIN | Profile | The Profile feature should allow users to create and manage their personal or organizational profiles. It should enable users to update contact information, change passwords, and manage access permissions. |
|  | Waste Collections | This section should display some option, including Map, Schedule, and Location. |
|  | Schedule | The Schedule feature should provide a comprehensive view of all scheduled waste collection activities, including dates, times, and assigned personnel. |
|  | Location | The Location feature should enable real-time tracking and display of waste collection vehicles' current locations. It should provide a map interface with accurate GPS data for efficient vehicle monitoring. |
|  | Fuel | The Fuel feature should track and manage fuel consumption for waste collection vehicles. It should record fuel usage, costs, and generate reports for analysis to optimize fuel efficiency. |
|  | Maintenance | The Maintenance feature should track and manage the maintenance schedules for waste collection vehicles. It should provide alerts for scheduled maintenance, track maintenance history, and ensure vehicles are in optimal condition for operations. |
|  | Route optimization | The Route Optimization feature should analyze waste collection routes and identify the most efficient paths for vehicles to minimize travel time. |
|  | Traffic Management | The Traffic Management feature should provide real-time traffic updates and suggest alternative routes to waste collection vehicles to avoid congested areas and optimize collection efficiency. |
|  | Generate Reports | The Generate Reports feature should offer various predefined and customizable reports related to waste collections, fuel usage, maintenance, and overall operational performance. These reports should help users analyze data and make informed decisions. |
|  | Delete | The Delete feature should allow authorized users to remove unnecessary or outdated records from the system, ensuring data cleanliness and efficient database management. |
|  | Documents | The Documents feature should provide a centralized repository for important waste collection-related documents, such as Driver Trip Ticket, Waste Collection monitoring, Maintenance Work Order, and Request For Repair/Servicing. |
|  | Reports | he Reports feature should offer a centralized location to view and access generated reports. Users should be able to filter, sort, and download reports based on specific criteria for further analysis or sharing with stakeholders. |
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| DRIVER | Profile | The Profile feature should allow users to create and manage their personal or organizational profiles. It should enable users to update contact information, change passwords, and manage access permissions. |
|  | Waste Collections | This section should display some option, including Map, Schedule, and Location. |
|  | Schedule | The Schedule feature should provide a comprehensive view of all scheduled waste collection activities, including dates, times, and assigned personnel. |
|  | Location | The Location feature should enable real-time tracking and display of waste collection vehicles' current locations. It should provide a map interface with accurate GPS data for efficient vehicle monitoring. |
|  | Fuel | The Fuel feature should track and manage fuel consumption for waste collection vehicles. It should record fuel usage, costs, and generate reports for analysis to optimize fuel efficiency. |
|  | Maintenance | The Maintenance feature should track and manage the maintenance schedules for waste collection vehicles. It should provide alerts for scheduled maintenance, track maintenance history, and ensure vehicles are in optimal condition for operations. |
|  | Documents | The Documents feature should provide a centralized repository for important waste collection-related documents, such as Driver Trip Ticket, Waste Collection monitoring, Maintenance Work Order, and Request for Repair/Servicing. |
|  | Report | he Reports feature should offer a centralized location to view and access generated reports. Users should be able to filter, sort, and download reports based on specific criteria for further analysis or sharing with stakeholders. |
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| STAFF | Profile | The Profile feature should allow users to create and manage their personal or organizational profiles. It should enable users to update contact information, change passwords, and manage access permissions. |
|  | Waste Collections | This section should display some option, including Map, Schedule, and Location |
|  | Schedule | The Schedule feature should provide a comprehensive view of all scheduled waste collection activities, including dates, times, and assigned personnel. |
|  | Location | The Location feature should enable real-time tracking and display of waste collection vehicles' current locations. It should provide a map interface with accurate GPS data for efficient vehicle monitoring. |
|  | Fuel | The Fuel feature should track and manage fuel consumption for waste collection vehicles. It should record fuel usage, costs, and generate reports for analysis to optimize fuel efficiency. |
|  | Maintenance | The Maintenance feature should track and manage the maintenance schedules for waste collection vehicles. It should provide alerts for scheduled maintenance, track maintenance history, and ensure vehicles are in optimal condition for operations. |
|  | Documents | The Documents feature should provide a centralized repository for important waste collection-related documents, such as Driver Trip Ticket, Waste Collection monitoring, Maintenance Work Order, and Request For Repair/Servicing. |
|  | Report | he Reports feature should offer a centralized location to view and access generated reports. Users should be able to filter, sort, and download reports based on specific criteria for further analysis or sharing with stakeholders. |