

C4 & HYDRO:EVOLVED

← REMOTE MONITORING →

VERSION 1.0



Document History

Date	Version	Summary of Changes
June 29, 2026	1.0	Initial Release

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1 Overview

The Remote Monitoring (RM) application enables authorized users to remotely monitor and manage one or more assigned elevator systems through a web browser. The application provides real-time elevator status monitoring, reporting capabilities, and remote command and control functions.

The RM application supports multiple contractors, sites, and elevator groups within a single platform.

The following web browsers are supported:

- ◆ Mozilla Firefox
- ◆ Google Chrome
- ◆ Microsoft Edge (Chrome Edition)

2 Features

The RM application provides a comprehensive set of monitoring, reporting, and management features.

Table 1: RM Application Features

Module	Description
Dashboard	Provides access to application features based on the user's assigned permissions.
View	<p>Allows users to visually monitor one or more elevator groups using four display formats:</p> <ul style="list-style-type: none"> · Small · Compact · Normal · Tall <p>Users can place car calls by selecting available cars within a group or bank and can place hall calls by selecting a floor within the group view.</p> <p>The View module displays:</p> <ul style="list-style-type: none"> · Current Connection of Group/ Bank · Current Mode of Car · Car animations for Current Floor · Car animations for Door State · Destination Floor · Car Call Indicators · Hall Call Indicators · Direction Arrow Indicator
Fault	<p>Allows users to monitor fault events for individual cars across multiple groups.</p> <p>Records can be sorted and filtered by:</p> <ul style="list-style-type: none"> · Fault Number · Fault Name · Description · Solution

	<ul style="list-style-type: none"> · Date & Time <p>Users can view detailed fault information and clear all fault records when required.</p>
Alarms	<p>Allows users to monitor alarm events for individual cars across multiple groups, contractors, and sites.</p> <p>Records can be sorted and filtered by:</p> <ul style="list-style-type: none"> · Alarm Number · Alarm Name · Description · Solution · Date & Time <p>Users can view alarm details and clear all alarm records when required.</p>
Reports	<p>Provides access to monitoring, fault, alarm, car call, and hall call reports for selected groups.</p> <p>Reports can be exported as PDF files.</p>
Car Calls	<p>Allows users to place car calls for available elevators within selected groups.</p>
Hall Calls	<p>Allows users to place hall calls for available elevator groups.</p>
Contractor	<p>Allows authorized users to manage contractor records. Users can add, edit, and delete contractor details. Records can be filtered based on the user's role and can be sorted or searched using the available contractor information.</p>
Sites	<p>Allows authorized users to manage site records. Users can add, edit, and delete site details. Records can be filtered based on the user's role and can be sorted or searched using the available site information.</p>
Jobs	<p>Allows authorized users to manage job records. Users can add, edit, and delete job details. Records can be filtered based on the user's role and can be sorted or searched using the available job information.</p>

3 Login Page

The Login Page requires user authentication before access to the RM application is granted. Users must enter the assigned Username and Password to sign in.

Users can show or hide the password by clicking the eye icon within the Password field.

Two-Factor Authentication (OTP):

For enhanced security, a One-Time Password (OTP) is required for every login to the Remote Monitoring Application. This additional authentication step ensures that only authorized users can access the system.

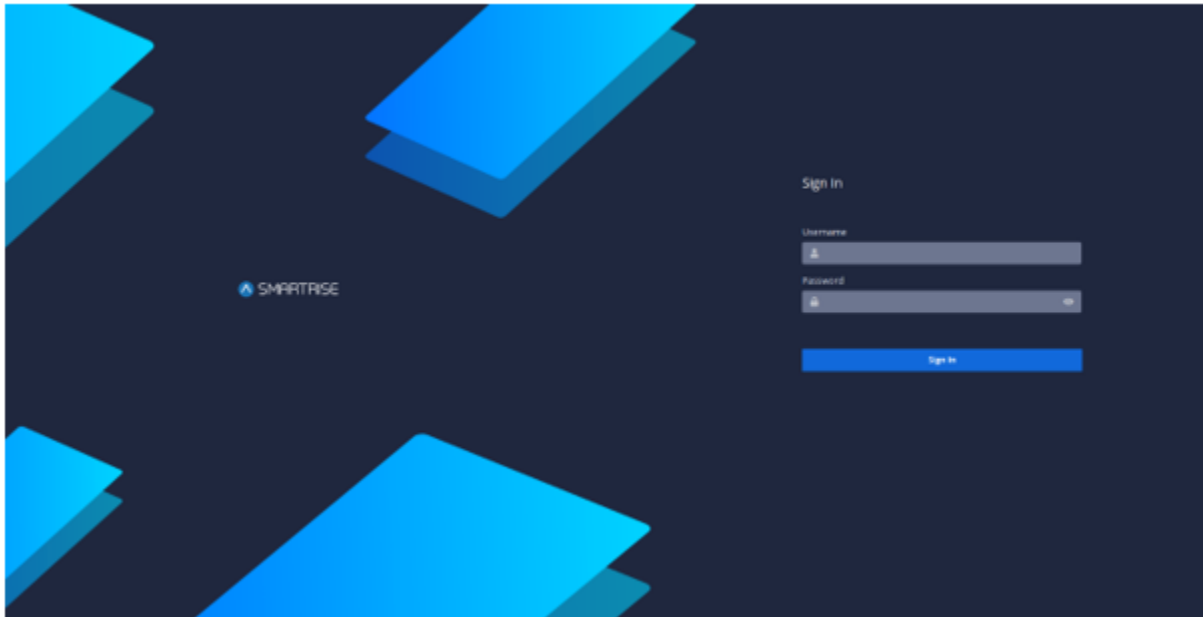


Figure 1: Login Page

4 Header

The **Header** contains three primary components:

- ◆ Hamburger Menu
- ◆ Toggle Dark/Light Theme
- ◆ User Account



Figure 2: Header

4.1 Hamburger Menu

The Hamburger Menu collapses the navigation bar on the left side of the screen, displaying only the menu icons. Hovering the mouse over the collapsed navigation bar temporarily displays the corresponding menu labels.

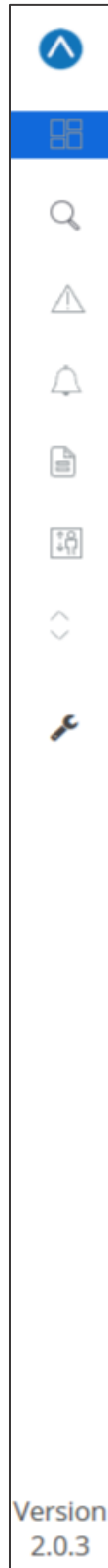


Figure 3: Collapsible Navbar

4.2 Toggle Dark/Light Theme

The Dark/Light Theme Toggle allows users to switch between display modes based on personal preference.

Dark mode reduces the amount of light emitted by the display while maintaining sufficient contrast for readability.

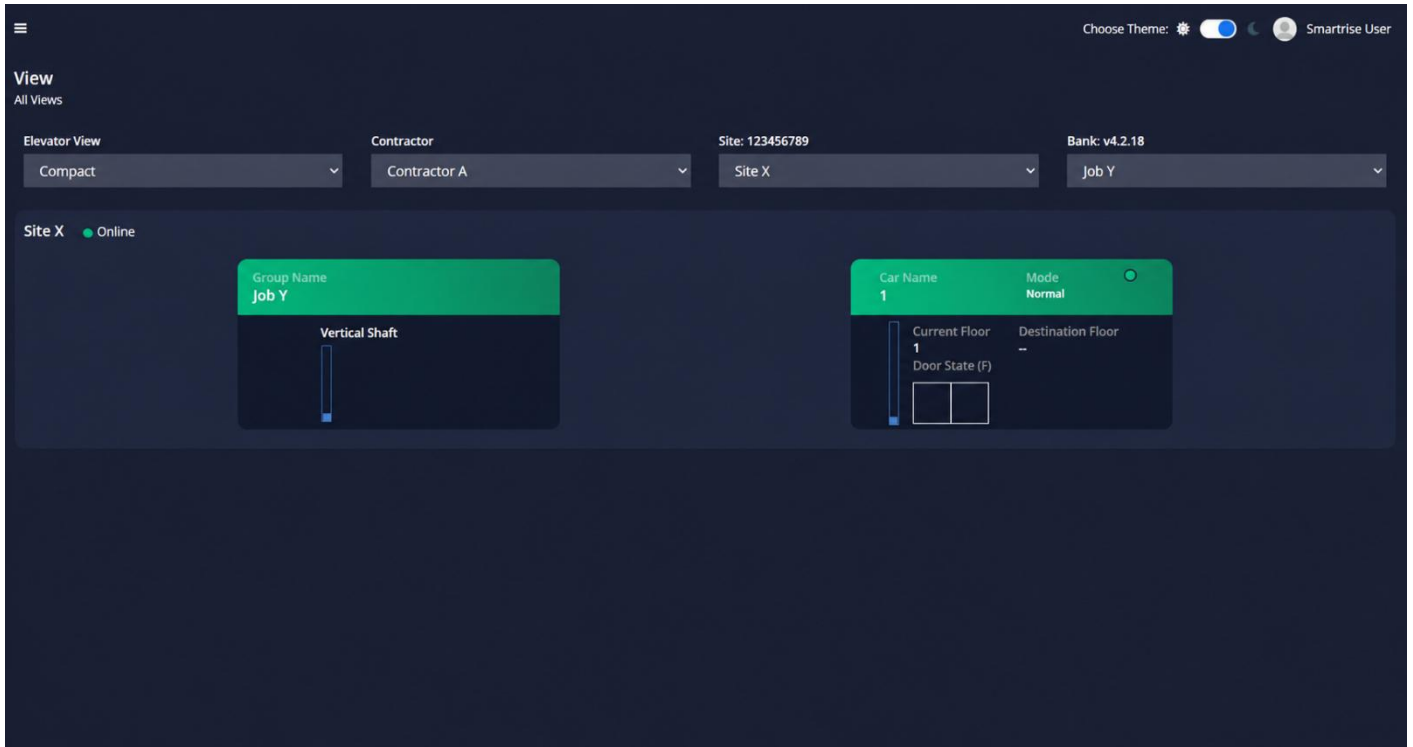


Figure 4: Dark Theme View

4.3 User Account

The User Account section displays the logged-in user's username and email address and provides access to the Sign Out function.

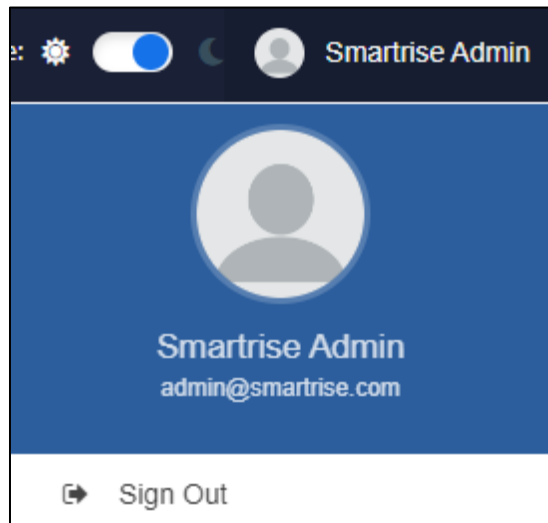


Figure 5: User Account

5 Navigation Bar

The Navigation Bar is located on the left side of the screen and is expanded by default. It provides access to all available application modules.

The application version is displayed at the bottom of the Navigation Bar.

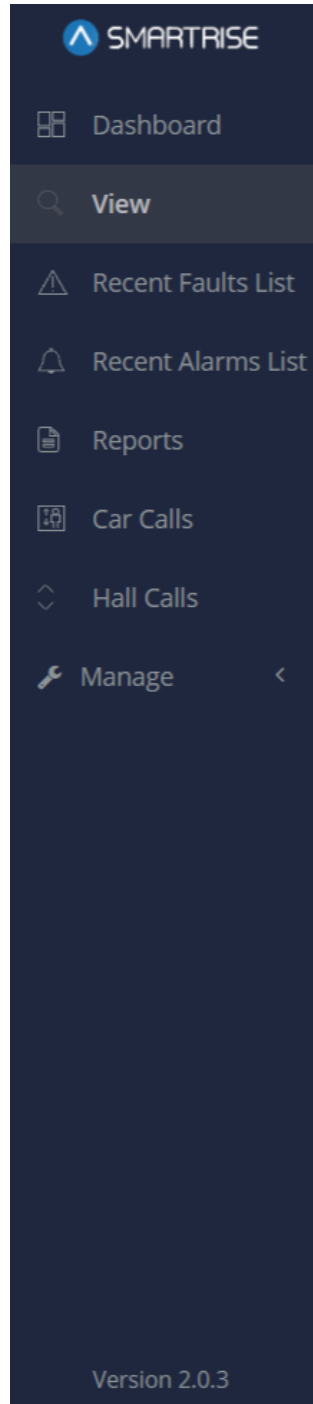


Figure 6: Navigation Bar

6 Dashboard

The Dashboard provides authorized users with an overview of available contractors, sites, and system activity.

Users can search for and filter contractors by location, as well as monitor and manage users based on assigned permissions.

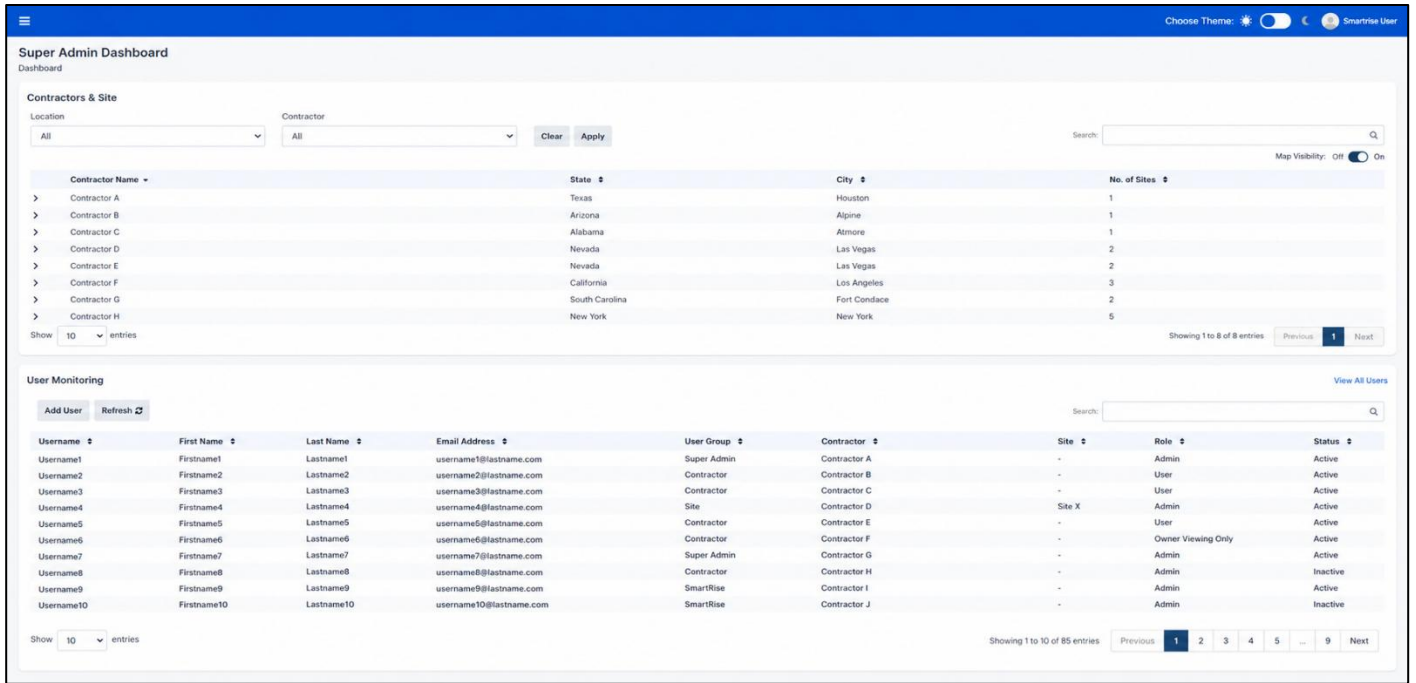


Figure 7: Super Admin Dashboard

7 View

The View module displays the real-time status of all monitored elevator cars within each group/bank, contractor, and site.

Users can select one of four display formats from the Elevator View drop-down menu.

- ◆ Small
- ◆ Compact
- ◆ Normal
- ◆ Tall

Cars are grouped by contractor, site, and elevator group/bank and are color-coded according to the current status:

- ◆ **Green:** Normal Operation
- ◆ **Gray:** Offline
- ◆ **Blue:** Independent Service

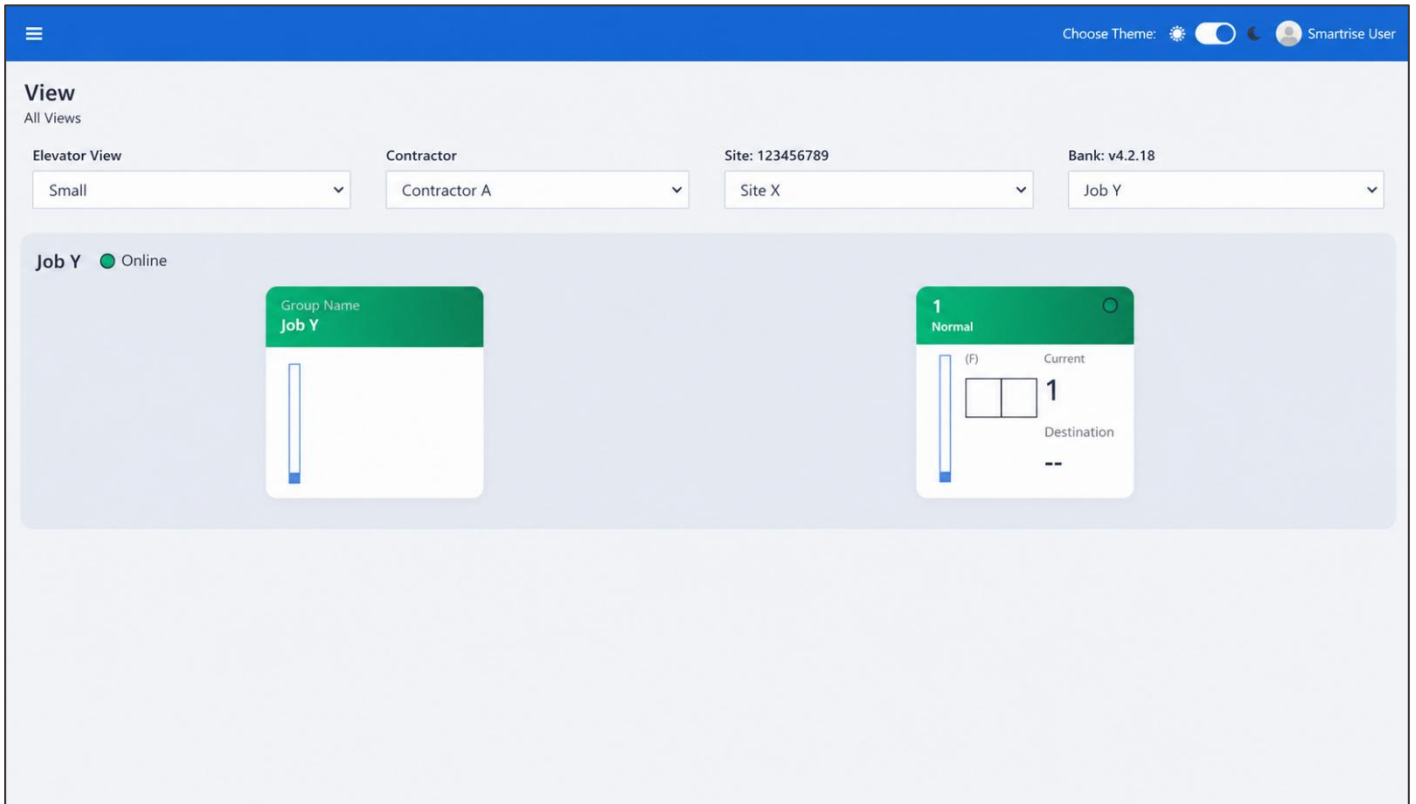


Figure 8: Small View

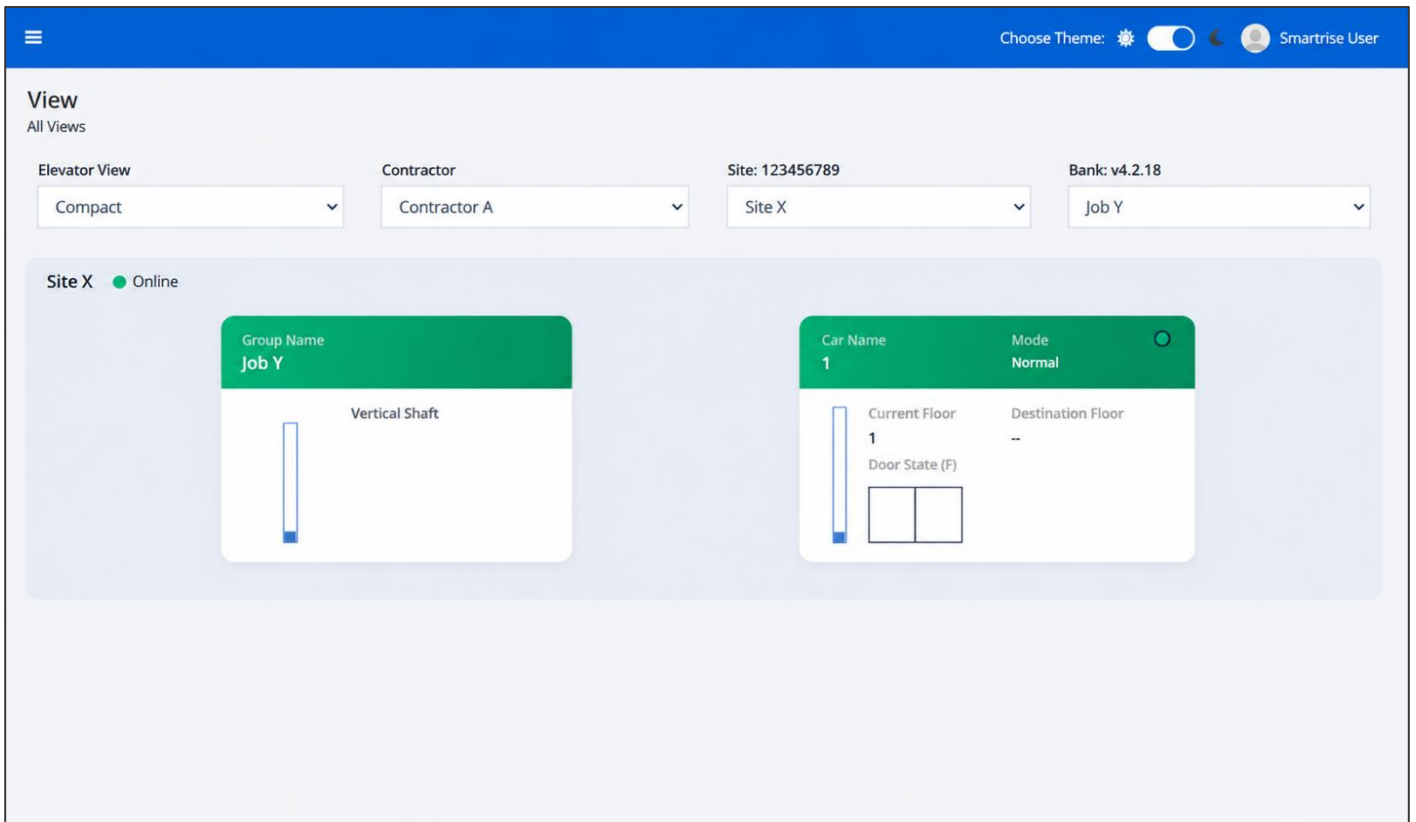


Figure 9: Compact View

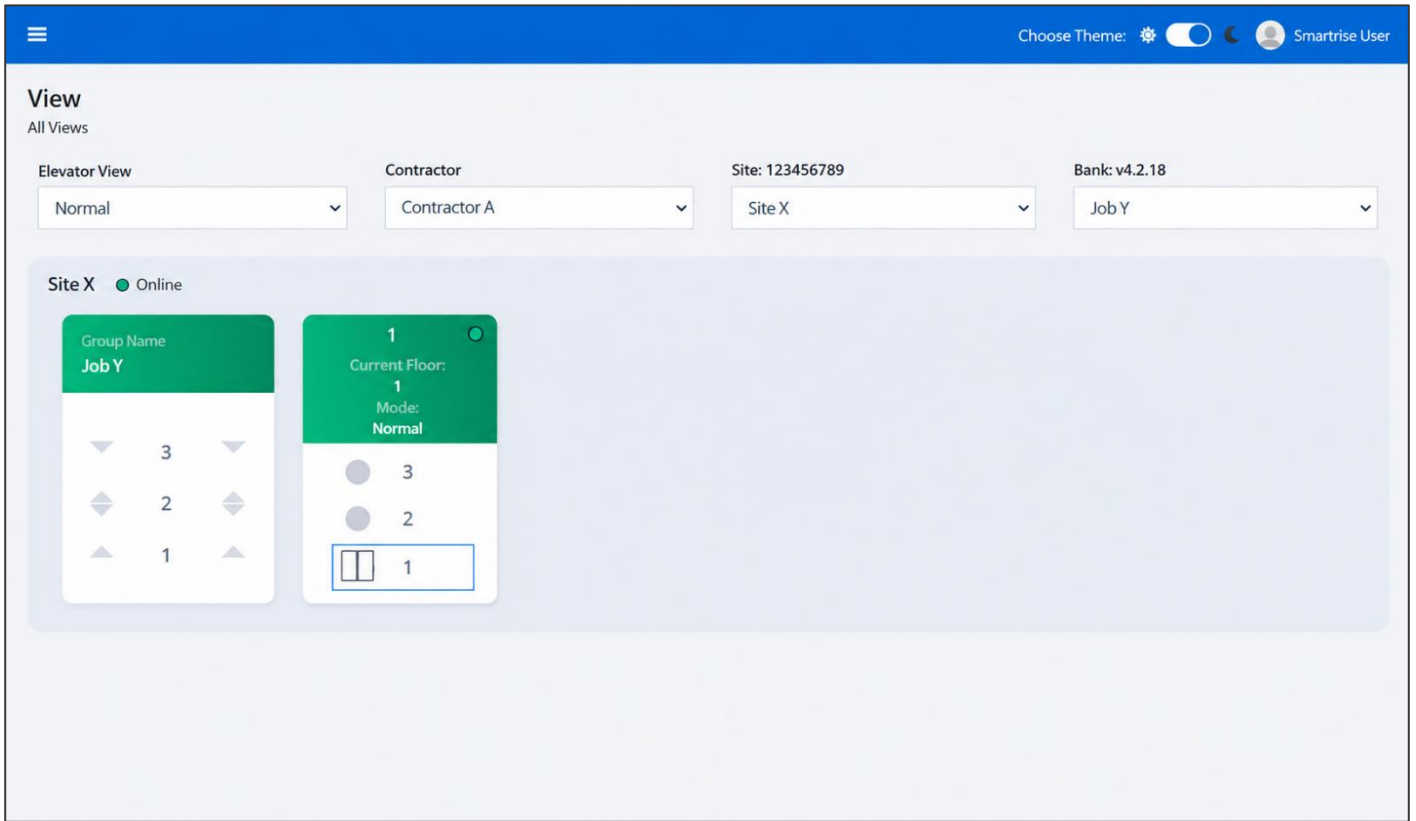


Figure 10: Normal View

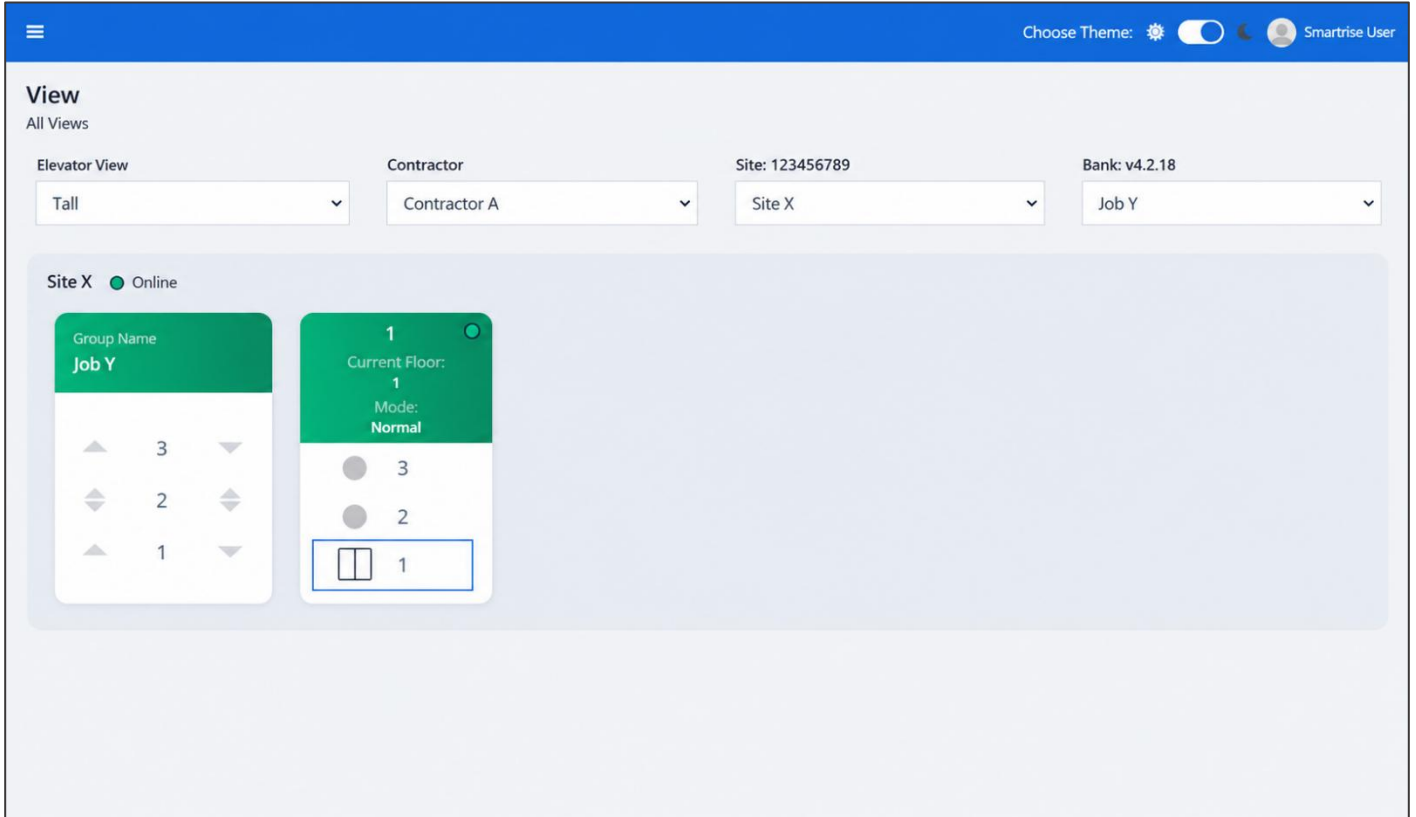


Figure 11: Tall View

7.1 Group Model

The Group Model displays the associated Job Name and provides access to hall call controls.

The Enter Hall Call section contains:

- ◆ Front
- ◆ Rear

Users can place a hall call by selecting the desired floor. The system will dispatch the nearest available car according to the group controller's operating logic.

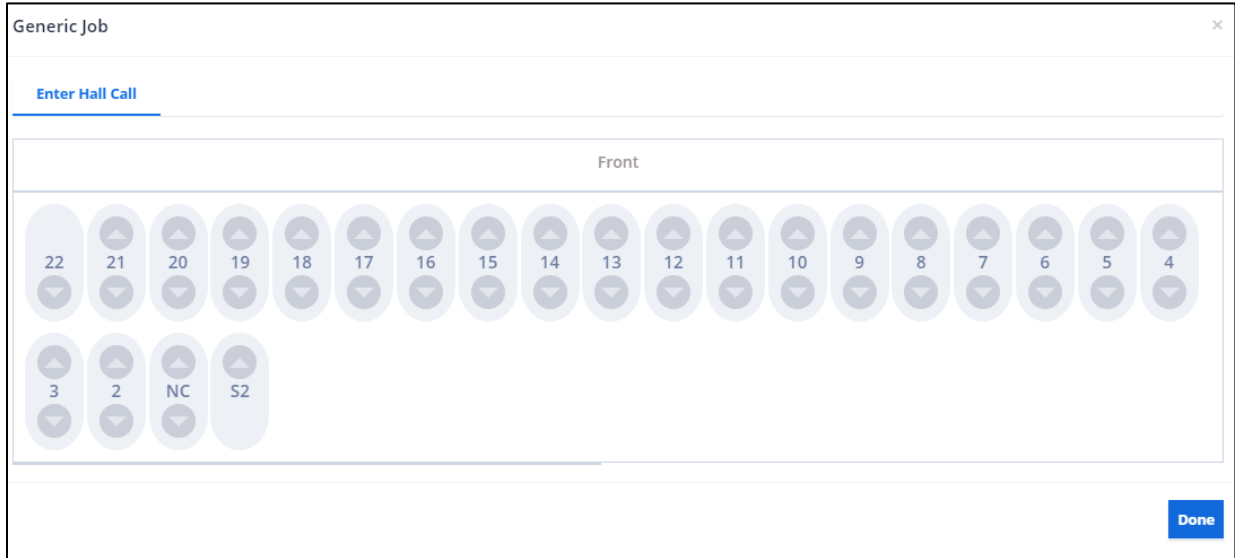


Figure 12: Enter Hall Call

7.2 Car Model

The Car Model displays the associated Job Name and provides access to car call controls.

The Enter Car Call section contains:

- ◆ Front
- ◆ Rear

If a floor is not accessible through a Front or Rear entrance, that floor is omitted from the corresponding list.

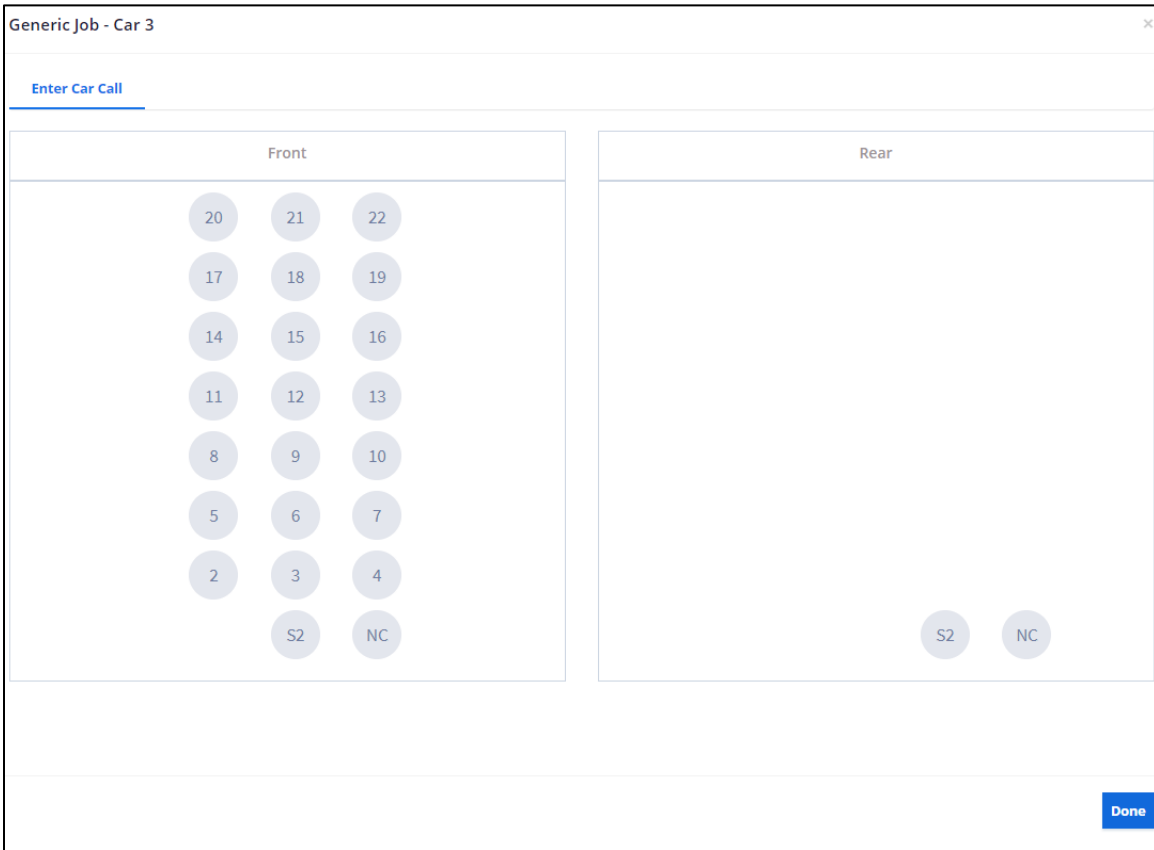


Figure 13: Enter Car Call

8 Recent Faults List

The Recent Faults module displays fault records for all monitored cars within selected groups, contractors, and sites.

To view the faults associated with a specific car, select the corresponding Car Number tab.

Records can be filtered and searched using the following criteria:

- ◆ Fault Number
- ◆ Fault Name
- ◆ Description
- ◆ Solution
- ◆ Date & Time

Table 2: Main Components for Faults

Components	Position	Function
Search Bar	Top-Right	Browse through the faults of a selected car
Entries Drop-Down	Bottom-Left	Customize the listing display by adjusting the number of entries shown per page
Pagination Buttons	Bottom-Right	Seamlessly navigate through the listing
Clear All Faults	Top of Search Bar	Delete all fault records for all groups and all cars

Choose Theme: ☀ 🌙 🌒 🌑 🌒 🌙 ☀
Smartrise User

Recent Faults List

All Faults

Contractor

Contractor A

Site: 123456789

Site X

Group: v4.2.18

Job Y

[Go Directly to Faults/Alarms Report](#)

car1

Clear this List

Search:

Car No.	Fault No.	Fault Name	Description	Solution	Floor Pi	Car Speed	Car Position	Date & Time	Action
1	9	Speed Dev	Car speed has dev...	Confirm system an...	1	0	-0' 7.027"	2026-06-18 02:07:43	View
1	9	Speed Dev	Car speed has dev...	Confirm system an...	1	0	-0' 7.027"	2026-06-18 02:07:35	View
1	9	Speed Dev	Car speed has dev...	Confirm system an...	1	0	-0' 7.027"	2026-06-18 02:07:24	View
1	9	Speed Dev	Car speed has dev...	Confirm system an...	1	0	-0' 7.027"	2026-06-17 02:07:26	View
1	9	Speed Dev	Car speed has dev...	Confirm system an...	1	0	-0' 7.027"	2026-06-17 02:07:15	View
1	9	Speed Dev	Car speed has dev...	Confirm system an...	1	0	-0' 7.027"	2026-06-17 02:07:07	View
1	9	Speed Dev	Car speed has dev...	Confirm system an...	1	0	-0' 7.027"	2026-06-16 02:07:09	View
1	9	Speed Dev	Car speed has dev...	Confirm system an...	1	0	-0' 7.027"	2026-06-16 02:06:58	View
1	9	Speed Dev	Car speed has dev...	Confirm system an...	1	0	-0' 7.027"	2026-06-16 02:06:51	View

Show 10 entries

Showing 1 to 10 of 3,752 entries

[Previous](#)
1
2
3
4
5
...
379
[Next](#)

Figure 14: Recent Faults List

8.1 Fault Details

To view detailed fault information, click View under the Actions column.

A pop-up window displays a summary of the fault along with recommended troubleshooting information or corrective actions.

Click Done or [X] to close the window.

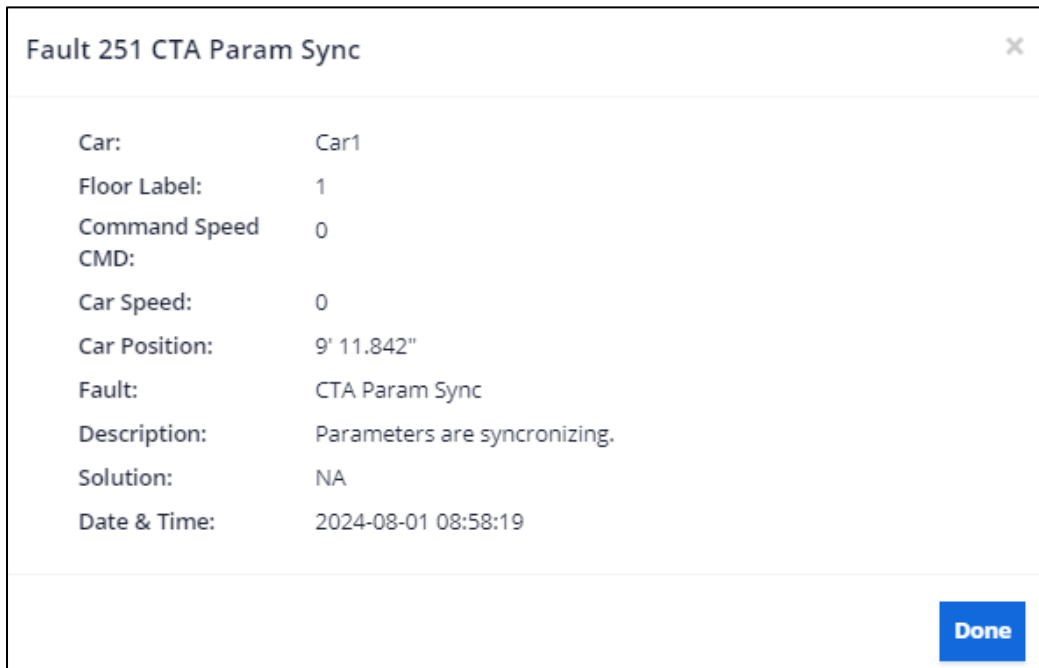


Figure 15: Fault and Traction Loss Pop-up

8.2 Fault Reports

From the Recent Faults module, click Go Directly to Faults/Alarms Reports to access the reporting interface.

By default, the Report Type is set to Faults/Alarms History, which displays both fault and alarm records.

When accessed from the Faults page, the Type of report should be Faults by default.

Reports ↑ Export

Contractor: Contractor A | Site: 123456789 | Site X | Bank: v4.2.18 | Job Y | Report Type: Faults/Alarms History

Filter by: Type: Faults | Date Range: 06/15/2026 12:00:00 am - 06/19/2026 11:59:00 pm | Cars: All Cars

Clear Apply

Faults History Search:

Date & Time	Car Label	Fault	Fault Name	Floor Pi	Car Speed	Car Position
2026-06-18 06:32:24	1	98	Door F Jumper GSW	2	0	19' 11.370"
2026-06-18 02:07:43	1	9	Speed Dev	1	-50	-0' 7.027"
2026-06-18 02:07:35	1	9	Speed Dev	1	-50	-0' 7.027"
2026-06-18 02:07:24	1	9	Speed Dev	1	-50	-0' 7.027"
2026-06-17 02:07:26	1	9	Speed Dev	1	-50	-0' 7.027"
2026-06-17 02:07:15	1	9	Speed Dev	1	-50	-0' 7.027"
2026-06-17 02:07:07	1	9	Speed Dev	1	-50	-0' 7.027"
2026-06-16 02:07:09	1	9	Speed Dev	1	-50	-0' 7.027"
2026-06-16 02:06:58	1	9	Speed Dev	1	-50	-0' 7.027"
2026-06-16 02:06:47	1	9	Speed Dev	1	-50	-0' 7.027"

Show 10 entries | Showing 1 to 10 of 13 entries | Previous 1 2 Next

Figure 16: Reports - Faults History

To view definitions for all available system faults, select Faults/Alarms Definition from the Report Type drop-down menu and click View Report.

Fault records are sorted by Fault Number by default.

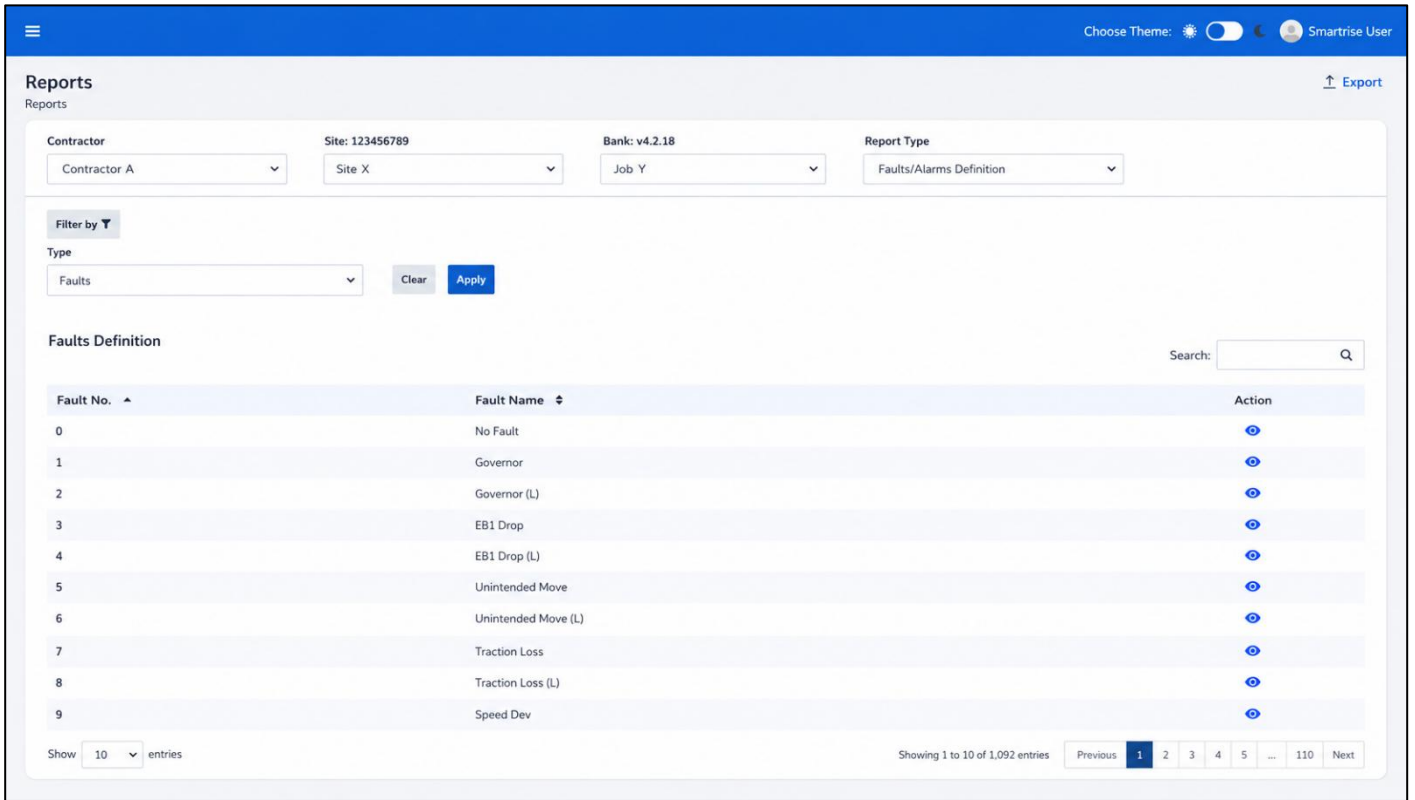


Figure 17: Reports – Faults Definition

Selecting View under the Actions column opens a detailed fault summary window.

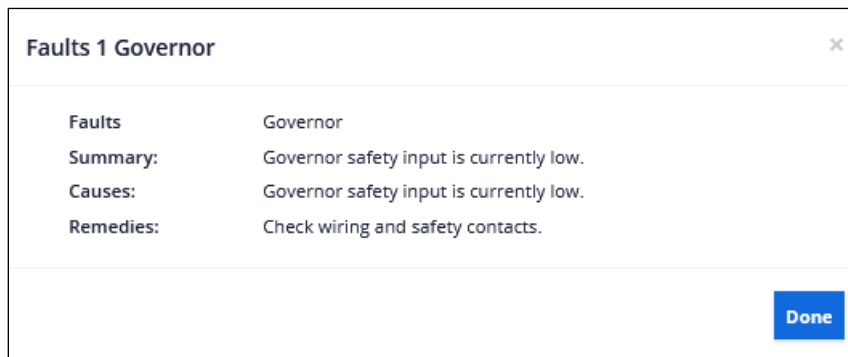


Figure 18: Reports – Fault Details Pop-up

The system also maintains a historical record of all fault events. Reports can be exported in PDF format by clicking Export.

Faults Definitions

Fault No.	Fault Name
0	No Fault
1	Governor
2	Governor (L)
3	EB1 Drop
4	EB1 Drop (L)
5	Unintended Move
6	Unintended Move (L)
7	Traction Loss
8	Traction Loss (L)
9	Speed Dev
10	IC Stop Sw
11	Redun. LRB
12	Redun. LRM
13	Redun. LRT
14	Redun. LFB
15	Redun. LFM
16	Redun. LFT
17	Redun. ATU
18	Redun. ATD
19	Redun. ABU
20	Redun. ABD
21	Redun. Car Byp
22	Redun. HA Byp
23	Redun. MM
24	Redun. SFM
25	Redun. SFH
26	Redun. PIT
27	Redun. IP Insp
28	Redun. MR Insp
29	Redun. IL Insp
30	Redun. C EB2
31	Redun. C SFM
32	Redun. M EB2
33	Redun. M SFM
34	Redun. M EB3
35	Redun. M EB1
36	Redun. M SFP
37	Redun. C EB3
38	Redun. C EB1
39	Redun. C SFP
40	Redun. GSWR
41	Redun. GSWF
42	Redun. CT Insp
43	Redun. CT Stop Sw
44	Redun. Esc Hatch

Figure 19: Faults Definition – Report

Faults History

Selected Group: Generic Job (1)
 Date Range: 08/01/2024 12:00 AM - 08/01/2024 11:59 PM
 Selected Car: All Cars

Date & Time	Car	Fault	Fault Name	Floor Label	Car Speed	Car Position
2024-08-01 08:58:19	Car1	251	CTA Param Sync	1	0	9' 11.842"
2024-08-01 08:58:19	Car1	252	CTB Param Sync	1	0	9' 11.842"
2024-08-01 08:58:19	Car1	901	COPB Param Sync	1	0	9' 11.842"
2024-08-01 08:26:43	Car2	75	Flood OOS	1	0	0' 0.00"
2024-08-01 08:24:25	Car2	75	Flood OOS	1	0	0' 0.00"
2024-08-01 08:21:29	Car2	912	OOS Keyswitch	1	0	0' 0.00"
2024-08-01 08:21:26	Car2	252	CTB Param Sync	1	0	0' 0.00"
2024-08-01 08:21:26	Car2	901	COPB Param Sync	1	0	0' 0.00"
2024-08-01 08:21:25	Car2	250	MRB Param Sync	1	0	0' 0.00"
2024-08-01 08:21:25	Car2	251	CTA Param Sync	1	0	0' 0.00"
2024-08-01 08:21:25	Car2	900	COPA Param Sync	1	0	0' 0.00"

Figure 20: Faults History – Report

9 Recent Alarms

The Recent Alarms module displays alarm records for all monitored cars within selected groups, contractors, and sites.

To view alarms associated with a specific car, select the corresponding Car Number tab.

Records can be filtered and searched using the following criteria:

- ◆ Alarm Number
- ◆ Alarm Name
- ◆ Description
- ◆ Solution
- ◆ Date & Time

Table 3: Main Components for Alarms

Components	Position	Function
Search Bar	Top-Right	Browse through the alarms of a selected car
Entries Drop-Down	Bottom-Left	Customize the listing display by adjusting the number of entries shown per page
Pagination Buttons	Bottom-Right	Seamlessly navigate through the listing
Clear All Alarms	Top of Search Bar	Delete all alarm records for all groups and all cars

Figure 21: Recent Alarms Module

9.1 Alarm Details

To view alarm details, click View under the Actions column.

A pop-up window displays a summary of the alarm and any applicable corrective actions.

Click Done or [X] to close the window.

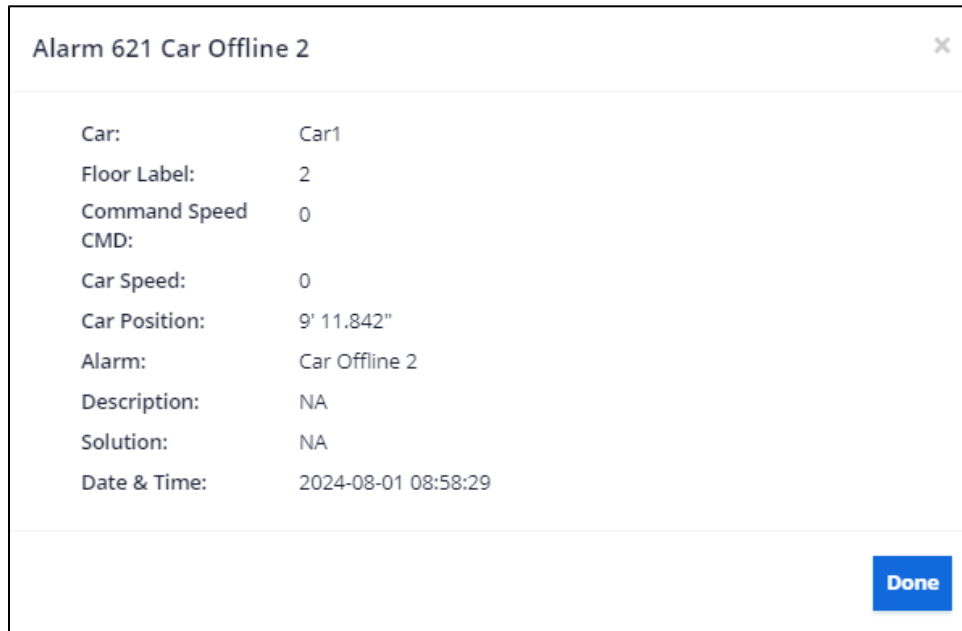


Figure 22: Alarm Details Pop-up

9.2 Alarm Reports

The system maintains a historical record of all alarm events.

To generate an alarm history report, select Faults/Alarms History from the Report Type drop-down menu and filter by Type (= Alarms), Date Range, and Cars.

The report generated displays all alarm events that occurred during the selected period

☰
Choose Theme: ☀️ 🌙 👤 Smartrise User

Reports ↑ Export

Reports

Contractor: Contractor A

Site: 123456789 Site X

Bank: v4.2.18 Job Y

Report Type: Faults/Alarms History

Filter by ▼

Type: Alarms

Date Range: 06/16/2026 12:00:00 am - 06/19/2026 11:59:00 pm

Cars: All Cars

Clear Apply

Alarms History Search:

Date & Time	Car Label	Alarm	Alarm Name	Floor Pi	Car Speed	Car Position
2026-06-18 18:30:27	1	78	Releveling	3	0	35' 11.751"
2026-06-18 17:15:06	1	78	Releveling	1	65535	-0' 0.570"
2026-06-18 15:01:16	1	78	Releveling	3	0	35' 11.791"
2026-06-18 15:00:41	1	78	Releveling	1	0	-0' 0.511"
2026-06-18 14:36:11	1	78	Releveling	1	0	-0' 0.511"
2026-06-18 13:38:31	1	78	Releveling	1	0	35' 11.811"
2026-06-18 13:28:31	1	78	Releveling	1	65535	-0' 0.531"
2026-06-18 12:27:43	1	78	Releveling	2	0	20' 0.255"
2026-06-18 12:37:45	1	78	Releveling	2	0	19' 11.173"
2026-06-18 11:33:44	1	78	Releveling	2	1	20' 0.196"

Show: 10 entries
Showing 1 to 10 of 85 entries Previous 1 2 3 4 5 ... 9 Next

Figure 23: Reports – Alarm History

Reports may be exported in PDF format by clicking Export.

Alarms History

Selected Group: Generic Job (1)
 Date Range: 08/01/2024 12:00 AM - 08/01/2024 11:59 PM
 Selected Car: All Cars

Date & Time	Car	Alarm	Alarm Name	Floor Label	Car Speed	Car Position
2024-08-01 08:58:29	Car1	621	Car Offline 2	2	0	9' 11.842"
2024-08-01 08:26:42	Car2	129	Flood Switch	1	0	0' 0.00"
2024-08-01 08:24:22	Car2	129	Flood Switch	1	0	0' 0.00"
2024-08-01 06:40:25	Car2	1447	Shield COM RPi	1	0	0' 0.00"
2024-08-01 04:33:30	Car2	1447	Shield COM RPi	1	0	0' 0.00"

Figure 24: Alarm History - Report

To view definitions for all available system alarms:

1. Select Faults/Alarms Definition from the Report Type drop-down menu.
2. Select Alarms from the Filter By menu.
3. Click View Report.

Selecting View under the Actions column opens a detailed alarm summary window

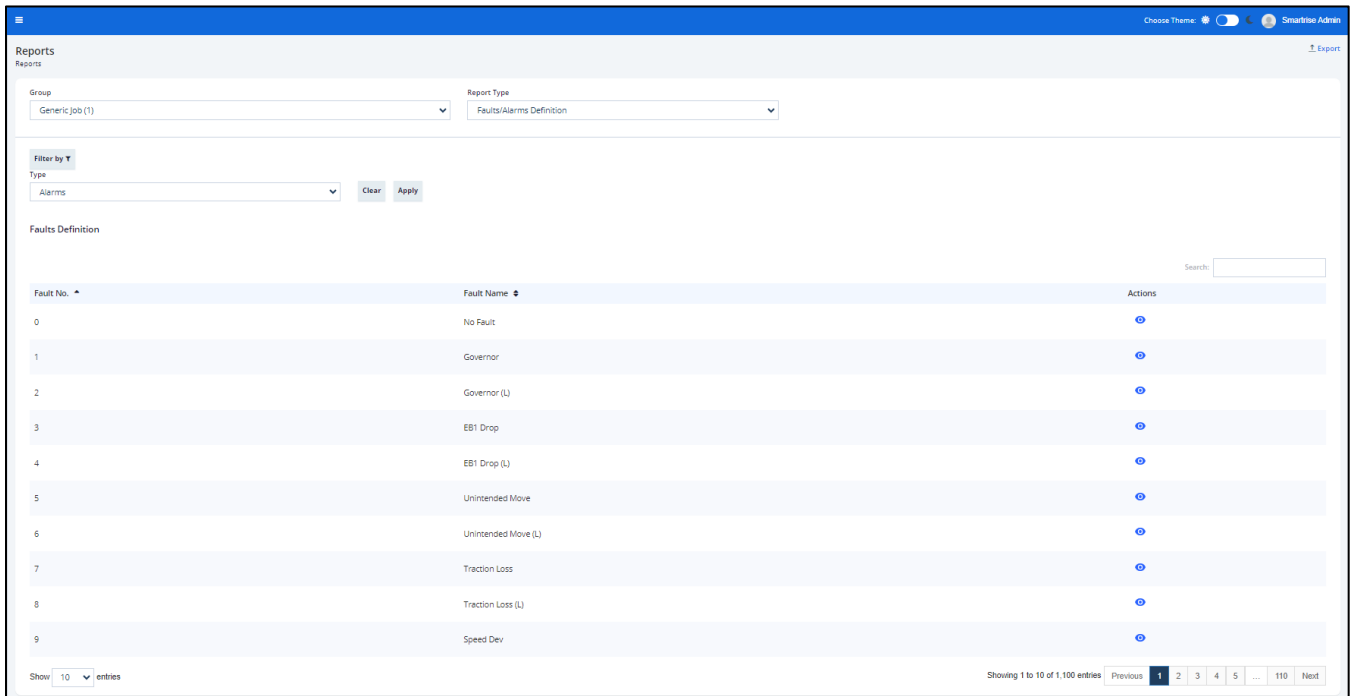


Figure 25: Reports – Alarm Definition

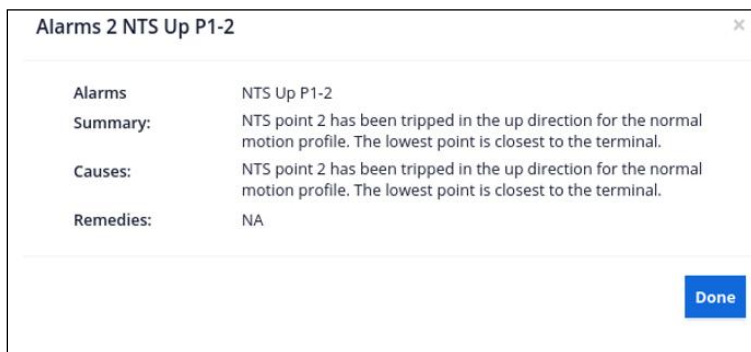


Figure 26: Reports – Alarm Details

10 Reports

The Reports module allows users to generate and review operational, performance, and historical reports for monitored elevator systems.

Available reports and associated filters are listed below.

Table 4: Available Reports

Report Name	Filter
Car Calls by Floor	Filtered by Date and Time range
Car Calls by Time of Day	Filtered by Date range
Car Use	Filtered by Date range and Cars
Door Times	Filtered by Date range and Floors
Faults/Alarms Definition	Filtered by Record Type
Faults/Alarms History	Filtered by Record Type, Date and Time range, and Cars. Records can be searched by the details available.
Floor to Floor Times	Filtered by Date range and Floors
Hall Calls by Floor	Filtered by Date and Time range
Hall Calls by Time of Day	Filtered by Date range
Out of Service List	Filtered by Date and Time range and Cars
In-Service Overview	Filtered by Date range
Program Events	Filtered by Date and Time range and Event Type
Wait Times – Average by Floor	Filtered by Date and Time range
Wait Times – Average by time of day	Filtered by Date range
Wait Times – Distribution by Wait Time	Filtered by Date and Time range
Wait Times – Distribution by Time of Day for Down Calls	Filtered by Date range
Wait times – Distribution by Time of day for Up Calls	Filtered by Date range
Wait Times – Longest (max)	Filtered by Date and Time range. Records can be searched and sorted by the details available.

11 Car Calls

The Car Calls module allows authorized users to simulate car calls for all online elevators within the selected group.

Only floors displayed in gray are available for selection.

To place a car call:

1. Select the Contractor.
2. Select the Site.
3. Select the Group.
4. Select the desired Car.
5. Select the destination floor.

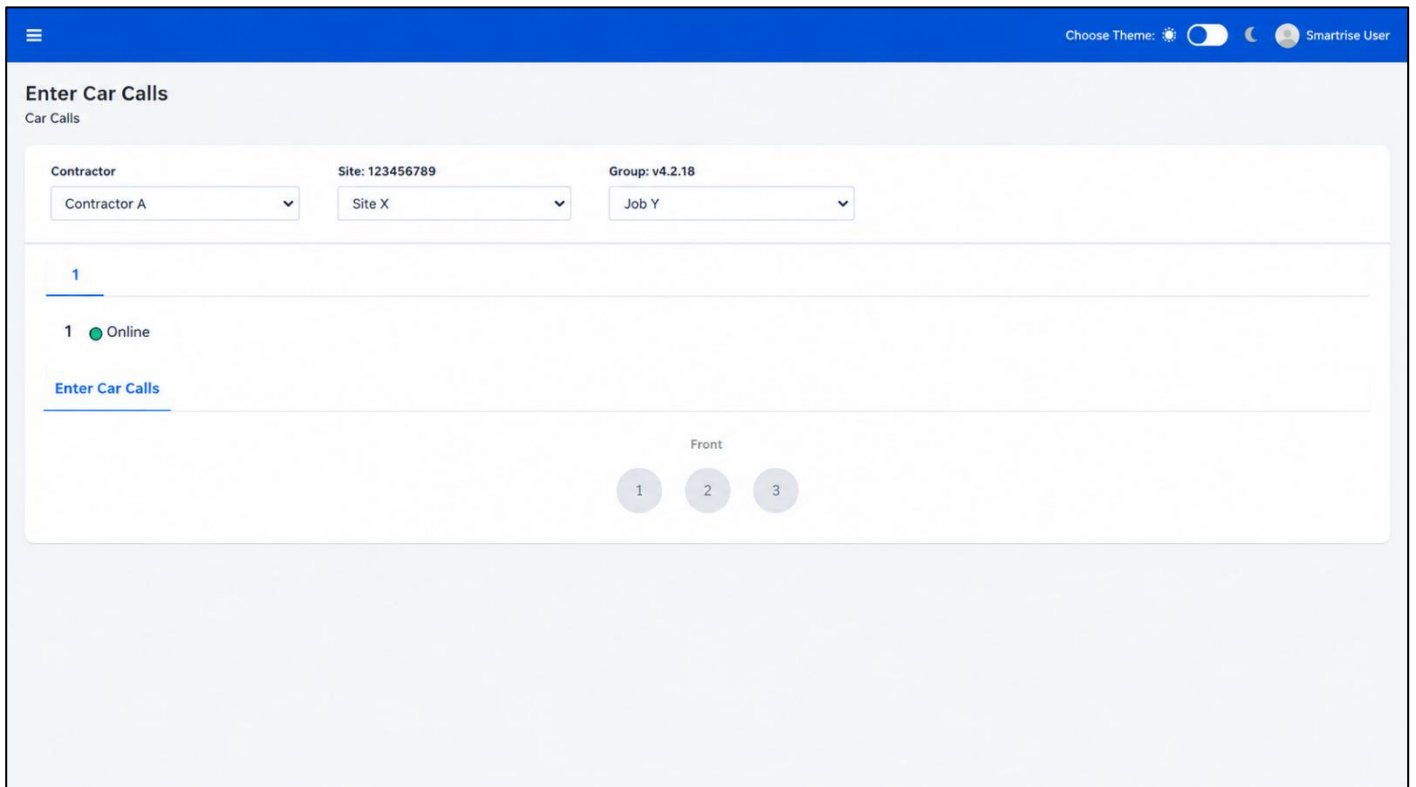


Figure 27: Enter Car Call

12 Hall Calls

The Hall Calls module allows authorized users to simulate hall calls for a selected elevator group.

To place a hall call:

1. Select the Contractor.
2. Select the Site.
3. Select the Group.
4. Select the desired floor and direction.

When a hall call is entered, the controller records the request and dispatches an elevator according to the group's operating logic.

If an active hall call already exists, the corresponding floor and direction button remains highlighted.

Hall call controls are divided into:

- ◆ Front
- ◆ Rear

If the elevator does not have rear entrances, only the Front section is displayed.

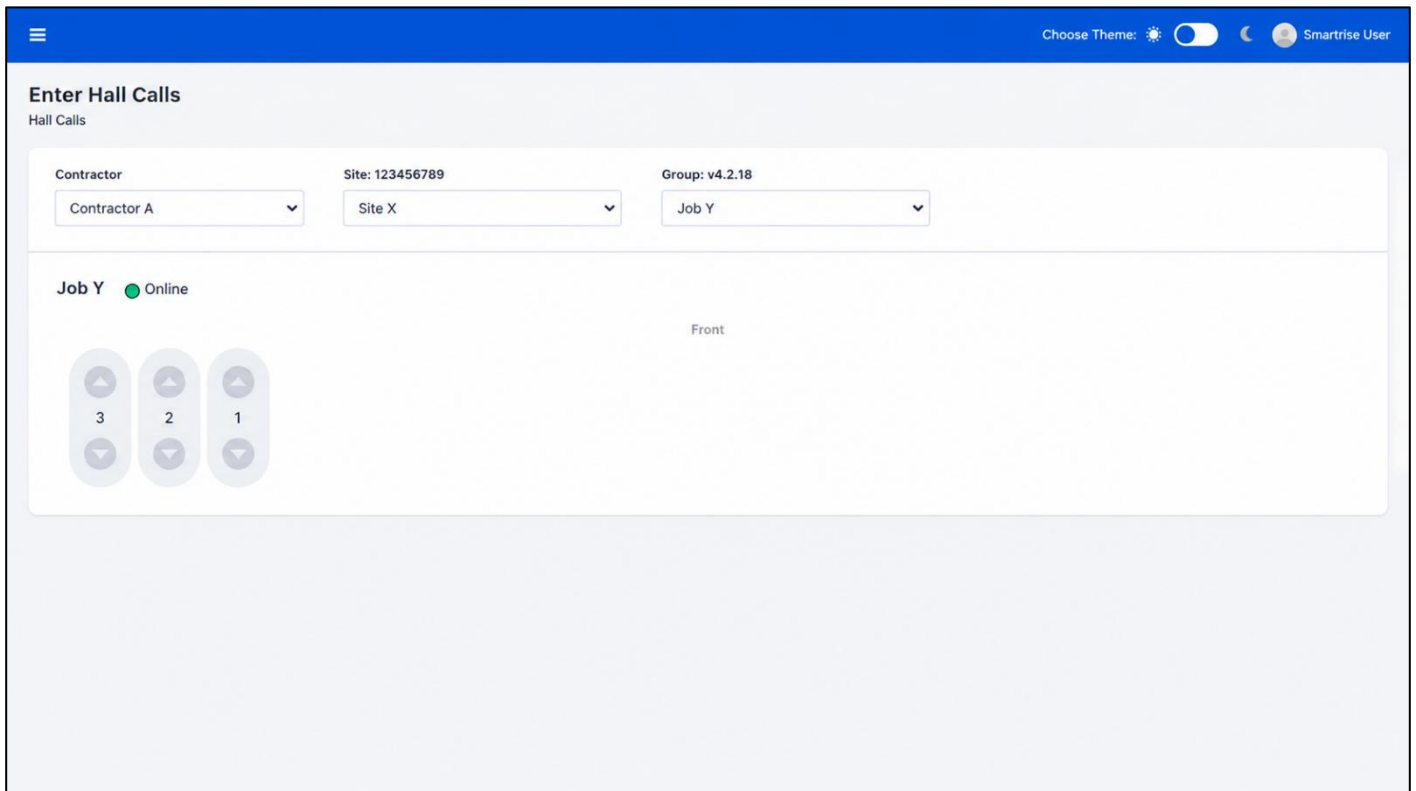


Figure 28: Enter Hall Calls

13 Manage

The Manage module provides administrative tools for managing Contractors, Sites, Jobs, Users, and Roles.

13.1 Contractors

The Contractors module allows authorized users to manage contractor records.

Users can:

- ◆ Create contractors
- ◆ View contractor information
- ◆ Edit contractor information
- ◆ Delete contractors

Contractor records can be filtered and searched by:

- ◆ Contractor ID
- ◆ Name
- ◆ Address
- ◆ City
- ◆ State
- ◆ ZIP Code
- ◆ Phone Number

Each contractor may contain one or more sites and associated users..

Contractors
All Contractors + Add Contractor

Filter by Search:

Contractor ID	Contractor Name	Address	City	State	Zip Code	Phone Number	Actions
10	Contractor A	Address 1	Houston	Texas	77001	(555) 010-0001	
11	Contractor B	Address 2	Alpine	Arizona	77002	(555) 010-0002	
12	Contractor C	Address 3	Atmore	Alabama	77003	(555) 010-0003	
13	Contractor D	Address 4	Las Vegas	Nevada	77004	(555) 010-0004	
14	Contractor E	Address 5	Las Vegas	Nevada	77005	(555) 010-0005	
15	Contractor F	Address 6	Los Angeles	California	77006	(555) 010-0006	
16	Contractor G	Address 7	Fort Condace	South Carolina	77007	(555) 010-0007	
17	Contractor H	Address 8	New York	New York	77008	(555) 010-0008	
18	Contractor I	Address 9	Acorn	California	77009	(555) 010-0009	
19	Contractor J	Address 10	Abanda	Alabama	77010	(555) 010-0010	

Show entries Showing 1 to 10 of 33 entries Previous **1** 2 3 4 Next

Figure 29: Manage Contractors

13.1.1 Add Contractor

To add a new contractor, click on the Add Contractor button. The Add Contractor screen shall be displayed, prompting for the new contractor’s information.

- ◆ Contractor ID
- ◆ Contractor Name
- ◆ Address
- ◆ State
- ◆ City
- ◆ Zip Code
- ◆ Phone Number
- ◆ Comment (Optional)

The screenshot shows the 'Add Contractor' form in the Smartrise application. The form is titled 'Add Contractor' and is located under the 'All Contractors' section. It contains the following fields:

- Contractor ID: *
- Contractor Name: *
- Address 1: *
- Address 2:
- Address 3:
- State: * (dropdown menu with 'Select State' selected)
- City: * (dropdown menu)
- Zipcode: *
- Phone Number: *
- Comment:

At the bottom right of the form, there are two buttons: 'Cancel' and 'Save'.

Figure 30: Add Contractor

When completed adding the contractor information, click on the Save button. If a mandatory field has not been filled out correctly, a Warning pop-up shall be displayed.

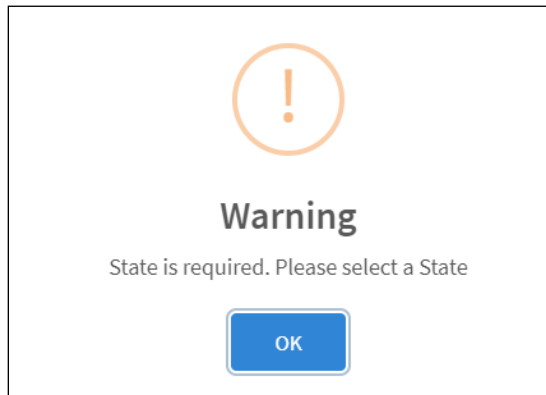


Figure 31: Warning Pop-up

Upon successful submission, a pop-up shall display that a new contractor has been added successfully.

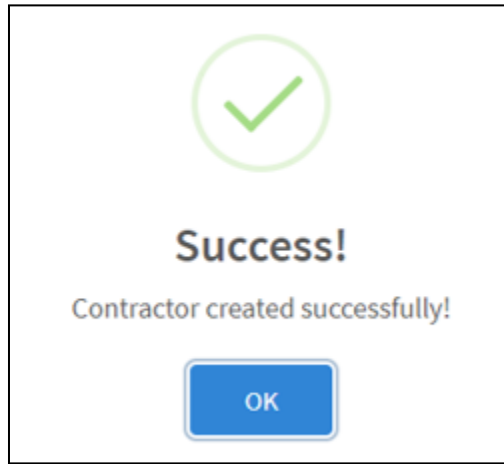


Figure 32: Contractor created successfully! Pop-up

Click the OK button. The View Contractor screen shall be displayed and consists of two sections.

- ◆ **Section 1:** Contractor’s contact information
- ◆ **Section 2:** Assigned Sites and Users

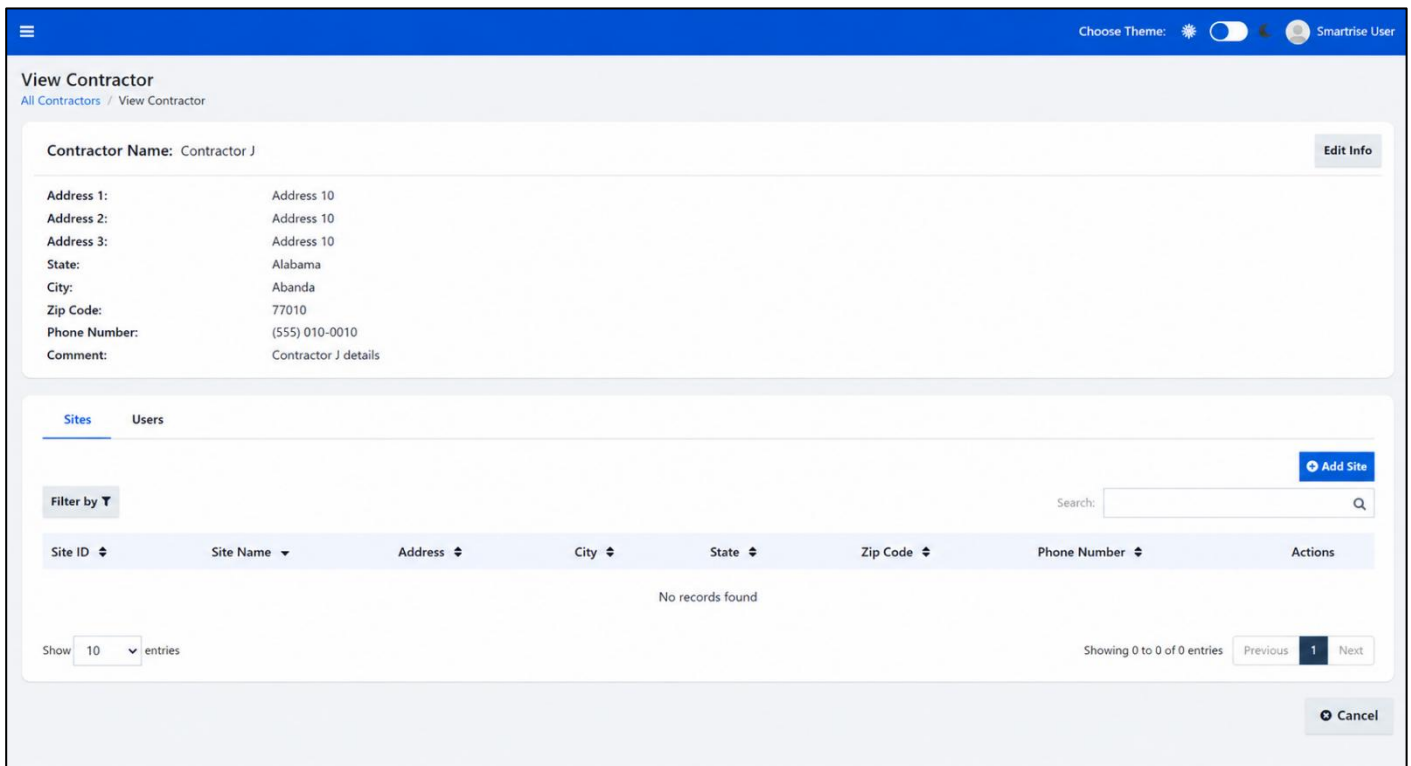


Figure 33: View Contractor

13.1.2 View Contractor

The View Contractor screen allows authorized users to view contractor’s contact information and the assigned sites and users. From this screen, authorized users can also add, edit, and delete Sites or User records.

There are two ways to view contractor information.

- ◆ From the Manage Contractors screen, click on View under the Actions column.
- ◆ After a contractor has been added and the user clicks OK from the Successful pop-up.

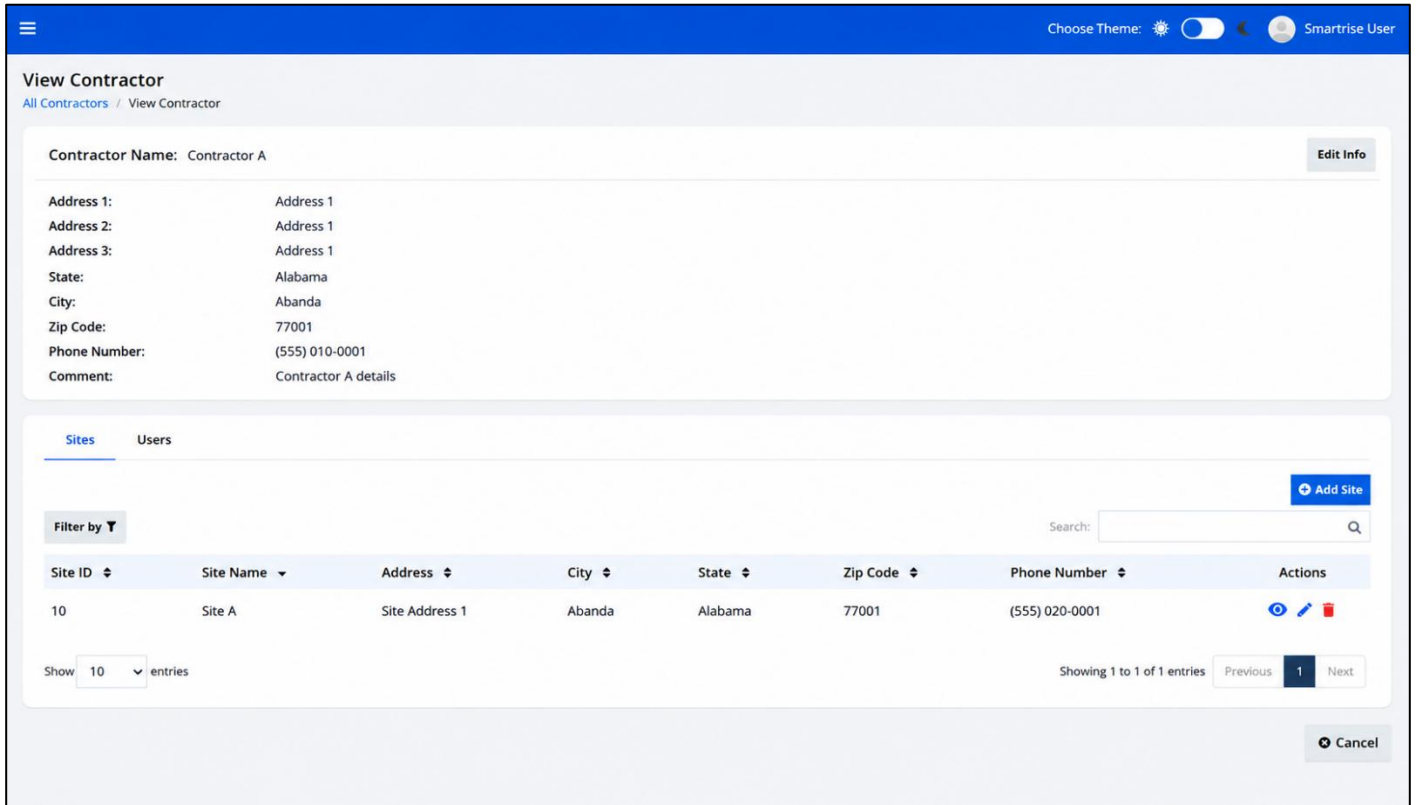


Figure 34: View Contractor – Sites

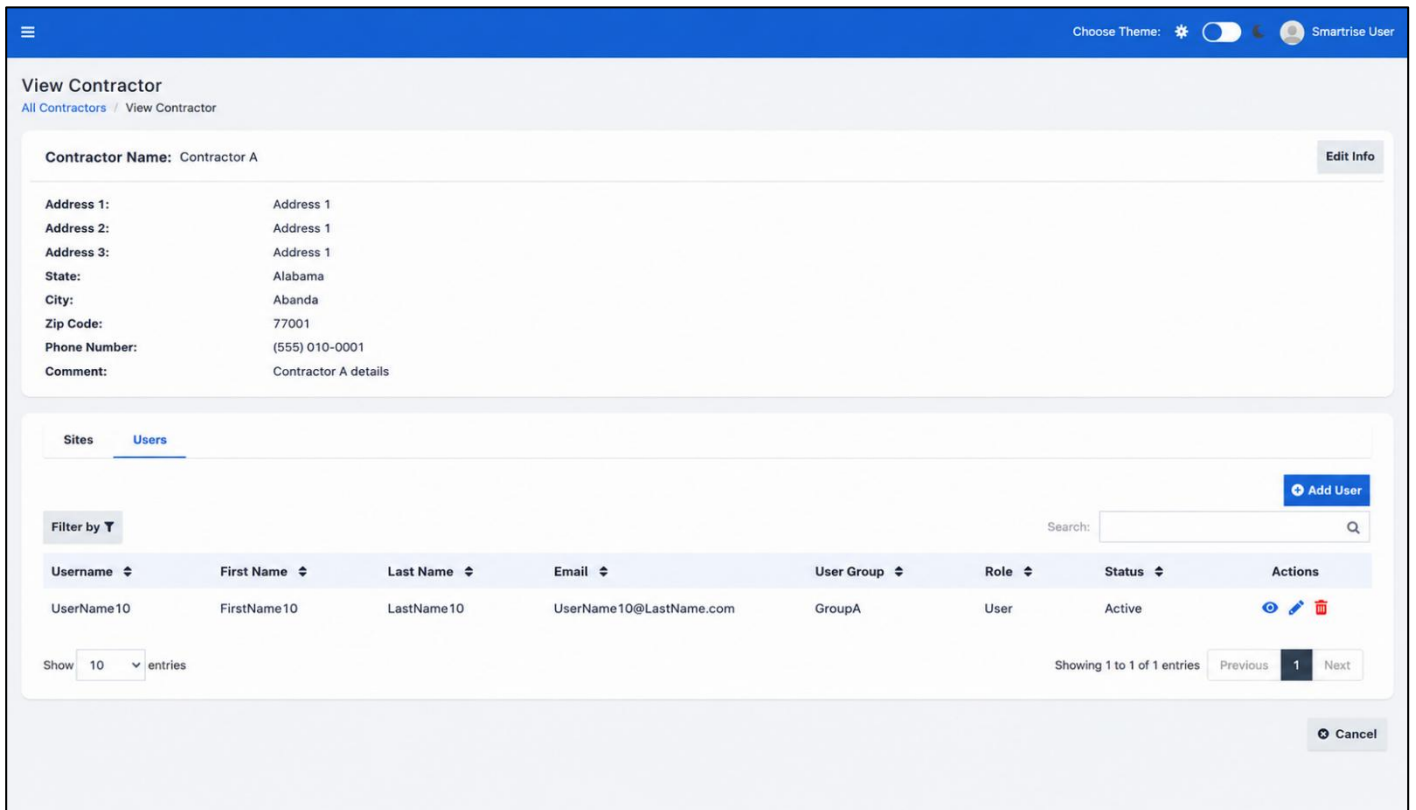


Figure 35: View Contractor – User

13.1.3 Add Site

To add a new site, go to the Site tab and click on the Add Site button. The Add Site screen shall be displayed, prompting for the new site’s information:

- ◆ Site ID
- ◆ Site Name
- ◆ Contractor
- ◆ Coordinates (latitude, longitude)
- ◆ Address
- ◆ State
- ◆ City
- ◆ Zip Code
- ◆ Phone Number
- ◆ Comment (Optional)

Figure 36: Add Site (Contractor)

When completed adding a site, click on the Save button. If a mandatory field has not been filled out correctly, a Warning pop-up shall be displayed.



Figure 37: Warning Pop-Up

Upon successful submission, a pop-up shall display that a new site has been added successfully.

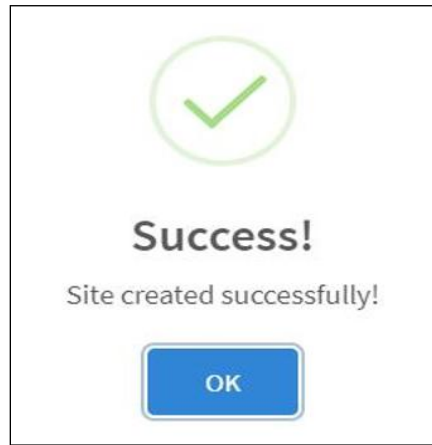


Figure 38: Site created successfully! Pop-up

Click the OK button. The system shall return to the View Contractor screen showing the added site under the Site tab.

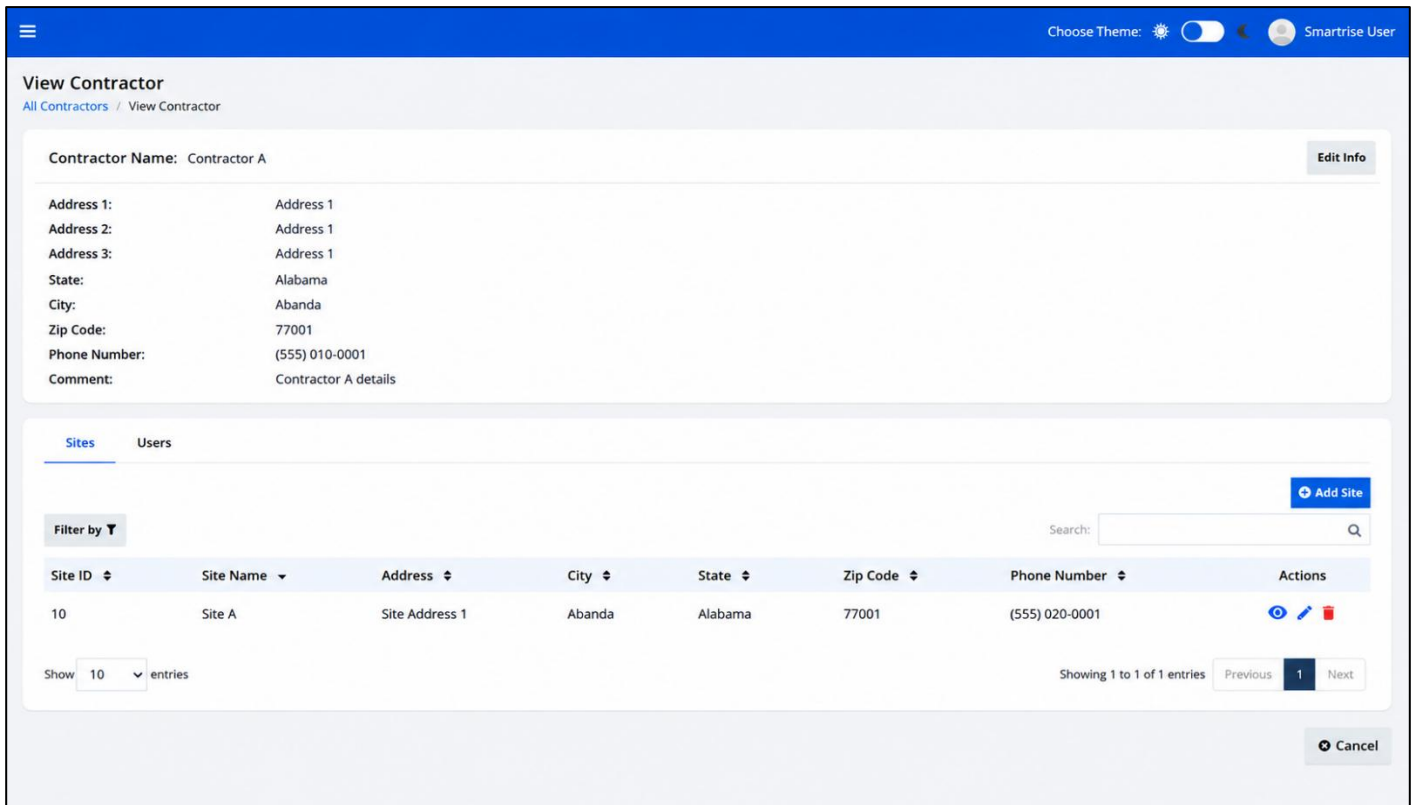


Figure 39: View Contractor-Added Site

13.1.4 Add User

To add a new user, go to the User tab and click on the Add User button. The Add User screen shall be displayed, prompting for the new user’s basic information.

- ◆ Last Name
- ◆ Email Address
- ◆ Contact Number

- ◆ Status: whether Active or Inactive (checkmark corresponds to Active).
- ◆ Username
- ◆ Password: must consist of uppercase, number, special characters, and length criteria.

Figure 40: Add User (Contractor)

When completed adding a new user, click on the Save button. If some information has not been entered in a required field, a value is required message shall be displayed on that field.

Figure 41: Contractor Add User – Value is Required Message

Upon successful submission, a pop-up shall display that a new user has been added successfully.

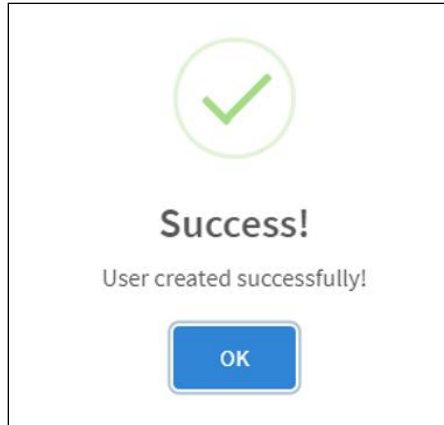


Figure 42: User created successfully! Pop-Up

Click the OK button. The system shall return to the View Contractor screen showing the added user under the Users tab.

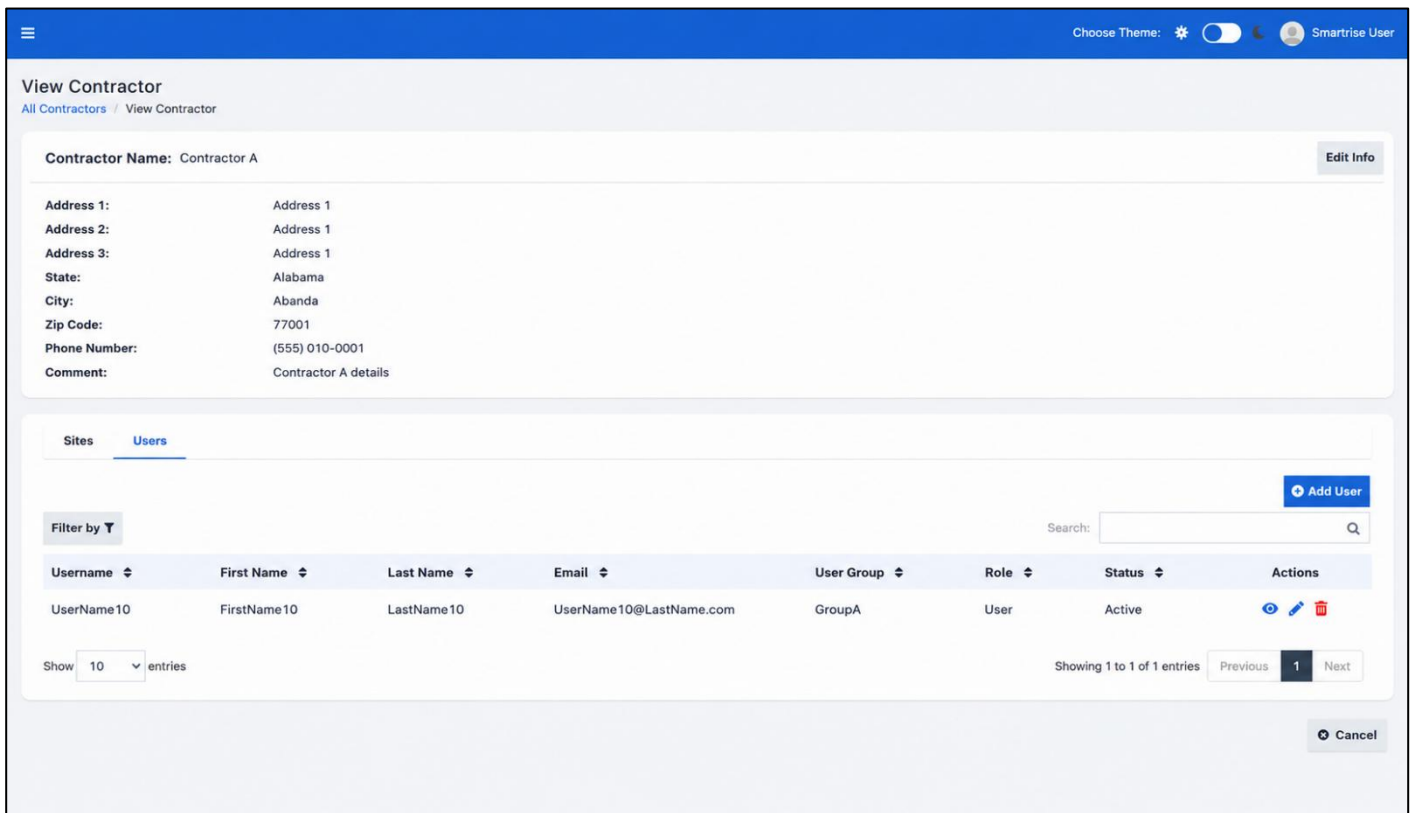


Figure 43: Added User (Contractor)

13.1.5 Edit Contractor

Contractor information can be updated.

There are two ways to edit contractor's information.

- ◆ From the View Contractors screen, click on the Edit Info button.
- ◆ From the Manage Contractors screen, click on Edit under the Actions column.

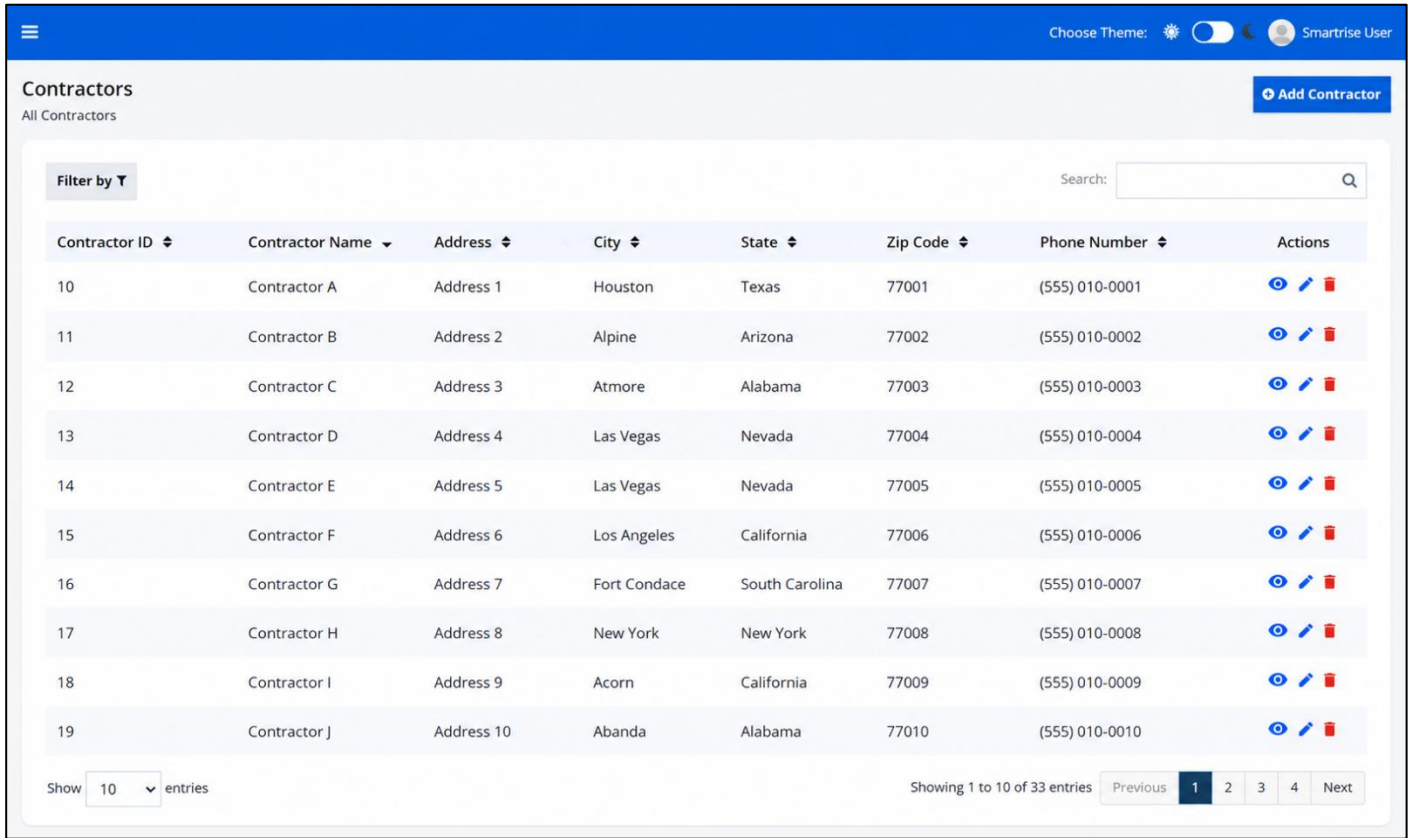


Figure 44: View Contractor – Edit Info Button

From the Edit Contractor screen, update the information and click Save.

Fill in the appropriate white spaces below. Essential information is mark with an asterisk (*)

Contractor Info

Contractor ID: *
10

Contractor Name: *
Contractor X

Address 1: *
address1

Address 2:
address2

Address 3:

State: *
California

City: *
Acorn

Zipcode: *
77001

Phone Number: *
(555) 010-0001

Comment:

Cancel Save

Figure 45: Edit Contractor

Upon completion, a pop-up shall display that contractor’s information has been updated successfully.

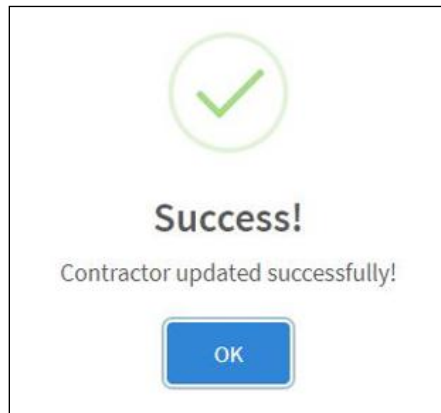


Figure 46: Contractor updated successfully! Pop-up

13.1.6 Delete Contractor

A contractor can be deleted by clicking on the Delete Contractor button under Actions column on the Manage Contractor screen. A pop-up shall display prompting confirmation.

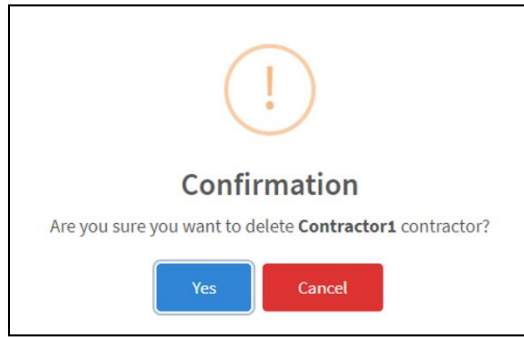


Figure 47: Delete contractor? Pop-Up

Upon confirmation, a success pop-up shall display that the contractor has been successfully deleted.

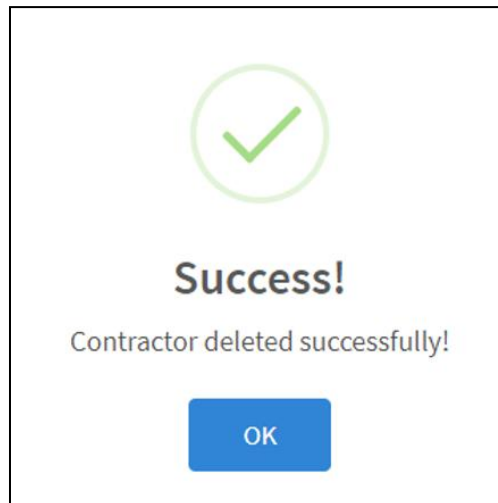


Figure 48: Contractor deleted successfully! Pop-Up

13.2 Sites

The Sites module allows authorized users to manage site records.

Users can:

- ◆ Create sites
- ◆ View site information
- ◆ Edit site information
- ◆ Delete sites

Site records can be searched and filtered using:

- ◆ Site ID
- ◆ Site Name
- ◆ Address
- ◆ City
- ◆ State
- ◆ ZIP Code

◆ Phone Number

Each site must be assigned to a single contractor.

The screenshot shows a web application interface for managing sites. At the top right, there are options for 'Choose Theme' and a user profile for 'Smartrise User'. Below the header, there is a search bar and an 'Add Site' button. The main content is a table with columns for Site ID, Site Name, Contractor, Address, City, State, Zip Code, Phone Number, and Actions. The table contains 10 rows of data, each representing a site from Site A to Site J. At the bottom left, there is a 'Show 10 entries' dropdown, and at the bottom right, there is a pagination control showing 'Showing 1 to 10 of 92 entries' with page numbers 1 through 10 and a 'Next' button.

Site ID	Site Name	Contractor	Address	City	State	Zip Code	Phone Number	Actions
1000	Site A	Contractor A	100 Main St	Springfield	Alabama	10001	555-010-0000	[Eye] [Pencil] [Trash]
1001	Site B	Contractor B	101 Oak Ave	Riverton	Alaska	10002	555-010-0001	[Eye] [Pencil] [Trash]
1002	Site C	Contractor C	102 Pine Rd	Lakeside	Arizona	10003	555-010-0002	[Eye] [Pencil] [Trash]
1003	Site D	Contractor D	103 Cedar Ln	Greenville	Arkansas	10004	555-010-0003	[Eye] [Pencil] [Trash]
1004	Site E	Contractor E	104 Maple Dr	Fairview	California	10005	555-010-0004	[Eye] [Pencil] [Trash]
1005	Site F	Contractor F	105 Birch Blvd	Madison	Colorado	10006	555-010-0005	[Eye] [Pencil] [Trash]
1006	Site G	Contractor G	106 Elm St	Clearwater	Connecticut	10007	555-010-0006	[Eye] [Pencil] [Trash]
1007	Site H	Contractor H	107 Walnut Way	Ashland	Delaware	10008	555-010-0007	[Eye] [Pencil] [Trash]
1008	Site I	Contractor I	108 Spruce Ct	Georgetown	Florida	10009	555-010-0008	[Eye] [Pencil] [Trash]
1009	Site J	Contractor J	109 Chestnut St	Franklin	Georgia	10010	555-010-0009	[Eye] [Pencil] [Trash]

Figure 49: Manage Sites

13.2.1 Add Site

To add a new site, click on the Add Site button. The Add Site screen shall be displayed, prompting for the new site’s information.

- ◆ Site ID
- ◆ Site Name
- ◆ Contractor
- ◆ Coordinates (latitude, longitude)
- ◆ Address
- ◆ State
- ◆ City
- ◆ Zip Code
- ◆ Phone Number
- ◆ Comment (optional)

Figure 50: Add Site (Site)

When completed adding a new site, click on the Save button. If some information has not been entered in a required field, a value is required message shall be displayed on that field.

Figure 51: Add Site – Value is Required Message

Upon successful submission, a pop-up shall display that a new site has been added successfully.

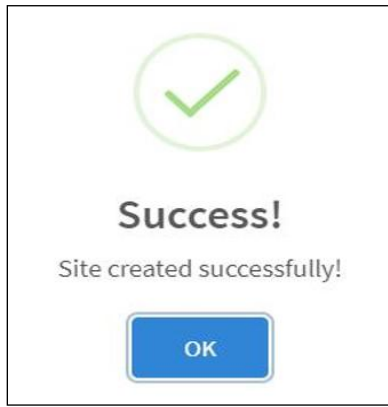


Figure 52: Site created successfully! Pop-Up

Click the OK button. The View Site screen shall be displayed and consists of two sections.

- ◆ **Section 1:** Displays the location and contact information of the site.
- ◆ **Section 2:** Assigned users to the site.

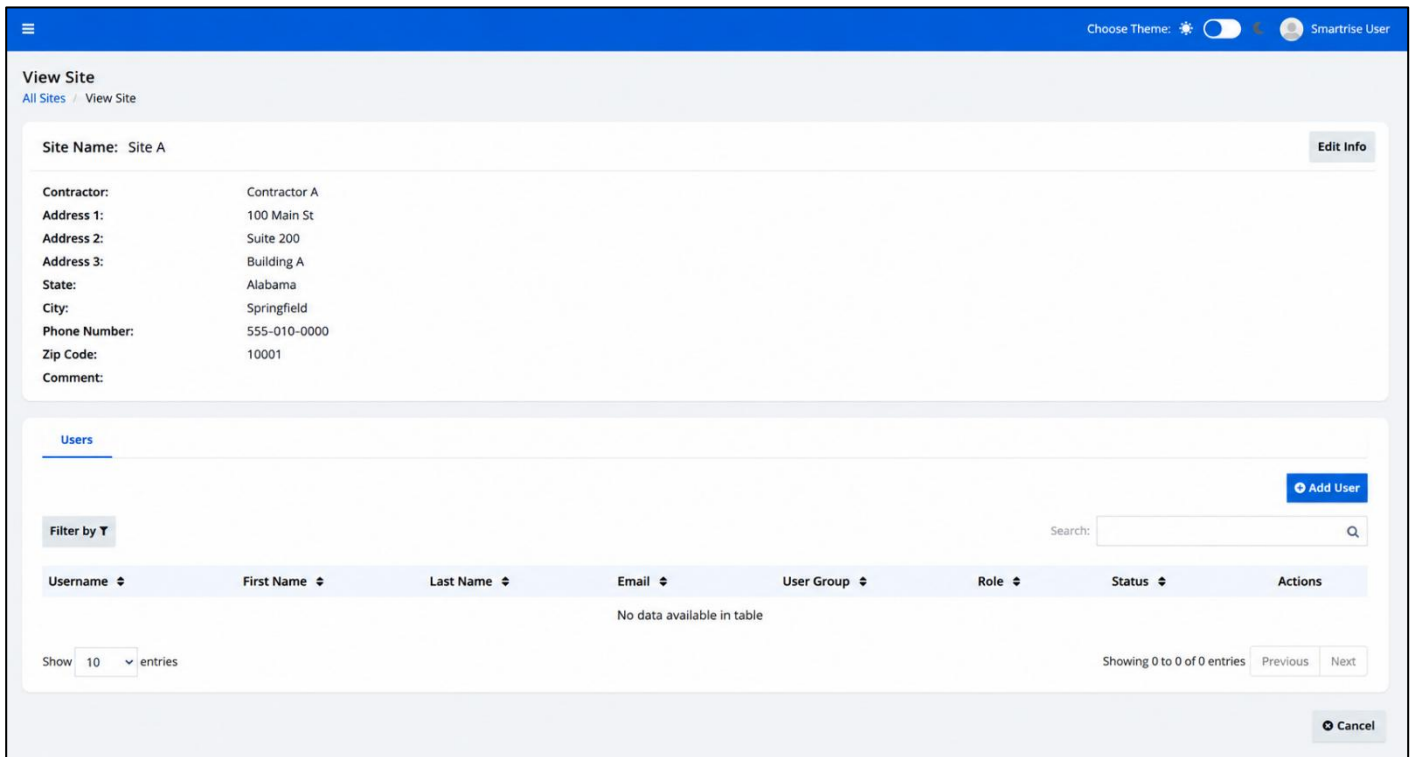


Figure 53: View Site

13.2.2 View Site

The View Site screen allows authorized users to view name and location of the site and assigned users. There are two ways to view site information.

- ◆ From the Manage Sites screen, click on View under the Actions column.
- ◆ After a site has been added and the user clicks OK from the Successful pop-up.

13.2.3 Add User

To add a new user, click on the Add User button. The Add User screen shall be displayed, prompting for the new user's basic information.

- ◆ First Name
- ◆ Last Name
- ◆ Email Address
- ◆ Contact Number
- ◆ User Group
- ◆ Contractor
- ◆ Site
- ◆ Status: whether Active or Inactive (checkmark corresponds to Active).
- ◆ Username
- ◆ Password: must consist of uppercase, number, special characters, and length criteria.

The screenshot shows a web application interface for adding a new user. The form is titled "Add User" and has a breadcrumb "All Users / Add Users". A blue header bar at the top contains "Choose Theme:" and "Smartrise User". The form itself is white with a light blue border. It contains several input fields, each with a label and an asterisk indicating it is required. The fields are: "First Name: *", "Last Name: *", "Email Address: *", "Contact Number: *", "User Group: *", "Site", "Contractor: *" (a dropdown menu with "- Select -"), "Site: undefined *", "Status" (with an "Active" checkbox), "Login" section with "Username: *" and "Password: *" fields. At the bottom right of the form, there are "Cancel" and "Save" buttons.

Figure 54: Add User

When completed adding a new user, click on the Save button. If some information has not been entered in a required field, a value is required message shall be displayed on that field.

Figure 55: Site Add User – Value is Required Message

Upon successful submission, a pop-up shall display that a new user has been added successfully.

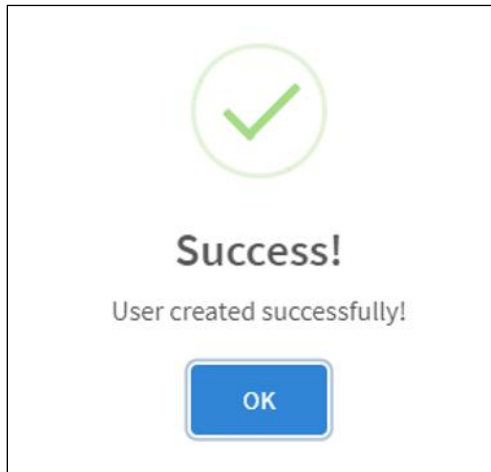


Figure 56: User created successfully! Pop-Up

Click the OK button. The system shall return to the View Site screen showing the added user.

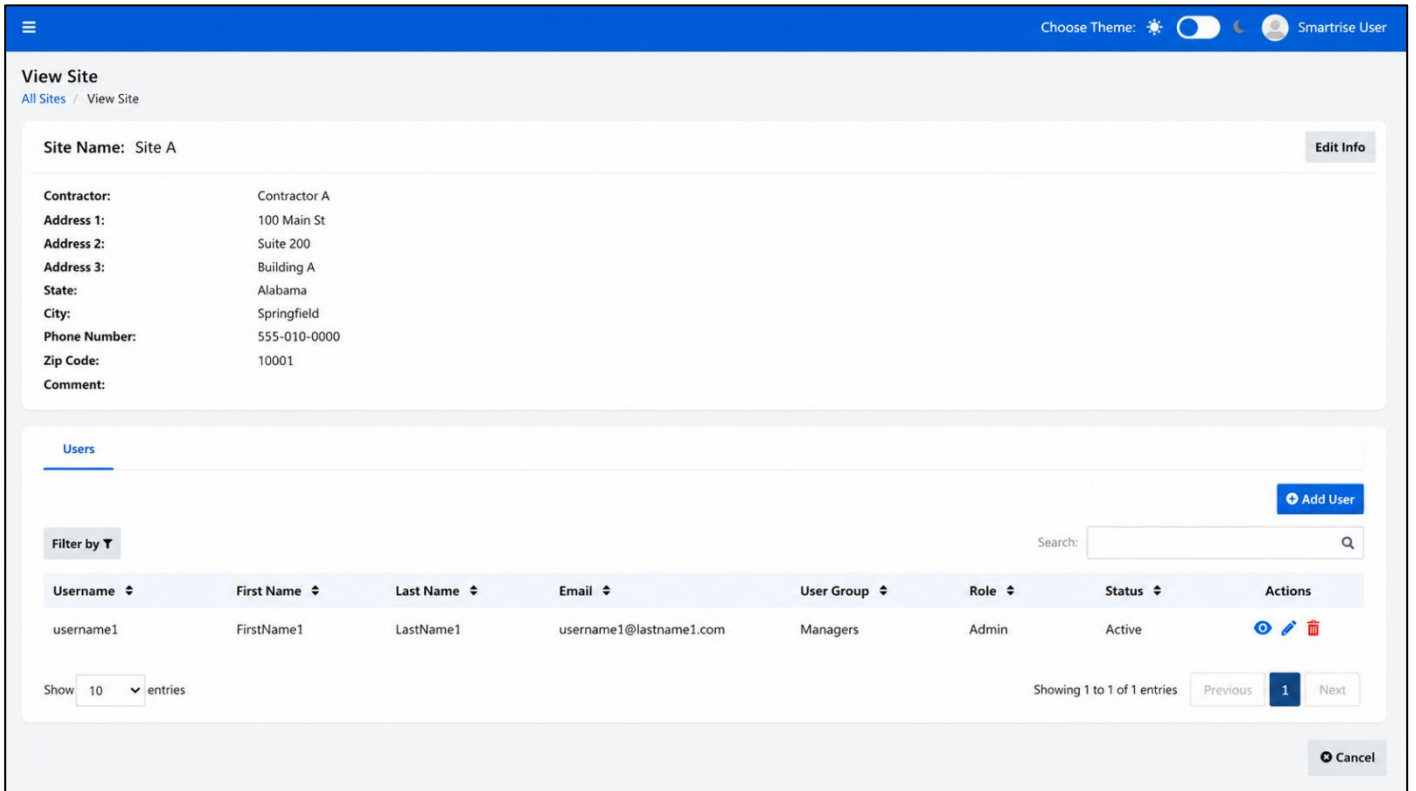


Figure 57: Added User

13.2.4 Edit Site

Site information can be updated when there is a change to the site’s location.

There are two ways to edit site information.

- ◆ From the View Sites screen, click on the Edit Info button.
- ◆ From the Manage Sites screen, click on Edit under the Actions column.

Fill in the appropriate white spaces below. Essential information is mark with an asterisk (*)

Site Info

Site ID: *
1000

Site Name: *
Site A

Contractor: *
Contractor A

Coordinate Latitude: *
1

Coordinate Longitude: *
1

Address 1: *
100 Main St

Address 2:
Suite 200

Address 3:
Building A

State: *
Alabama

City: *
Springfield

Zip Code: *
10001

Phone Number: *
555-010-0000

Comment:

Cancel Save

Figure 58: View Site – Edit Info Button

From the Edit Site screen, update the information and click Save.

Fill in the appropriate white spaces below. Essential information is mark with an asterisk (*)

Site Info

Site ID: *
1000

Site Name: *
Site A

Contractor: *
Contractor A

Coordinate Latitude: *
1

Coordinate Longitude: *
1

Address 1: *
100 Main St

Address 2:
Suite 200

Address 3:
Building A

State: *
Alabama

City: *
Springfield

Zip Code: *
10001

Phone Number: *
555-010-0000

Comment:

Cancel Save

Figure 59: Edit Site

Upon completion, a pop-up shall display that the sites information has been updated successfully.

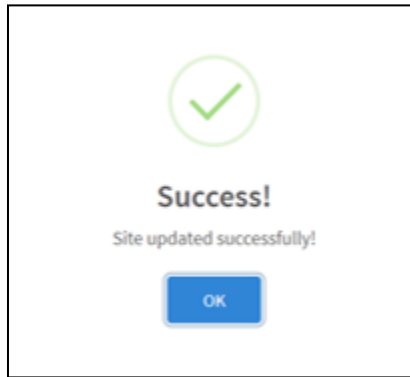


Figure 60: Site updated successfully! Pop-Up

13.2.5 Delete Site

A site can be deleted by clicking on the Delete Site button under Actions column on the Manage Site screen. A pop-up shall be displayed prompting confirmation from the Admin.

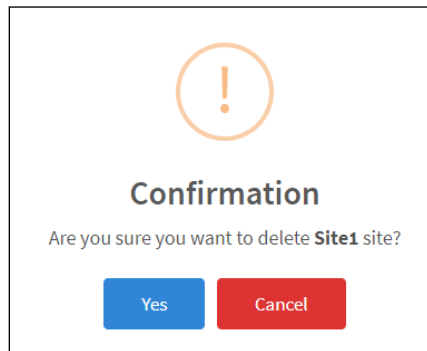


Figure 61: Delete site? Pop-Up

Upon confirmation, a success pop-up shall display that the site has been successfully deleted.

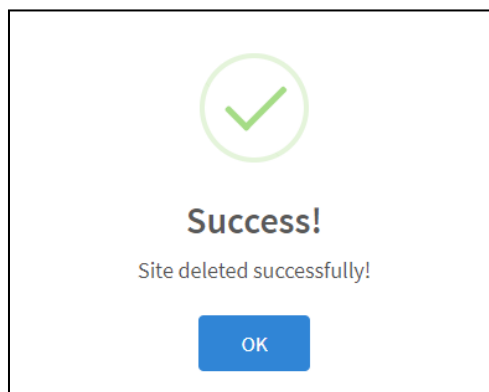


Figure 62: Site deleted successfully!

13.3 Jobs

The Jobs module allows authorized users to manage job records.

Users can:

- ◆ Create jobs
- ◆ View job information
- ◆ Edit job information
- ◆ Delete jobs

Available records may vary based on the user's assigned role.

Job records can be searched and sorted by:

- ◆ Job Name
- ◆ Job Number
- ◆ Job ID
- ◆ Group
- ◆ Assigned Site

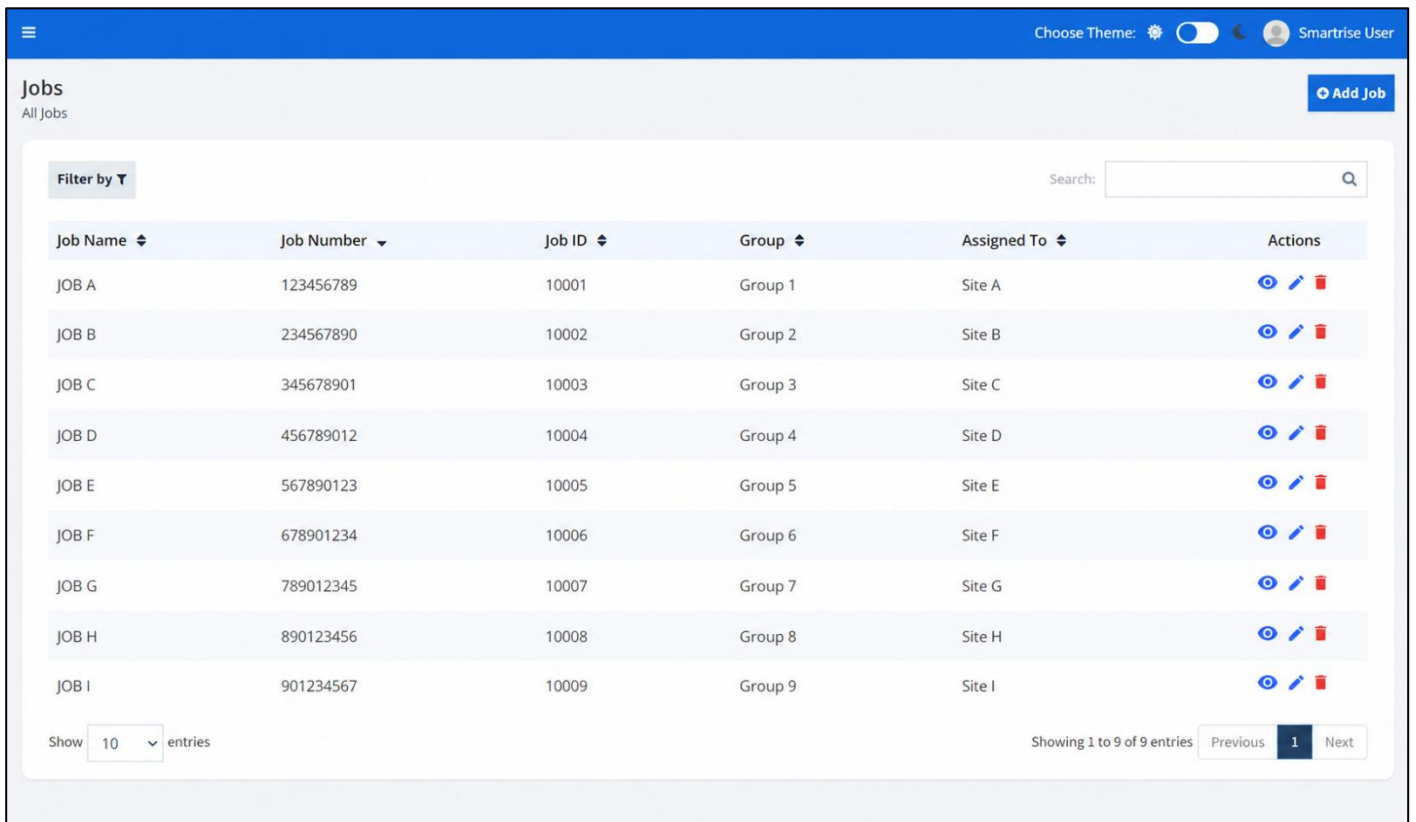


Figure 63: Manage Jobs

13.3.1 Add Job

To add a new job, click on the Add Job button. The Add Job screen shall be displayed, prompting for the new job's information.

- ◆ Job Name
- ◆ Job Number
- ◆ Job ID
- ◆ Assign To (Site)

The screenshot shows a web application interface for adding a new job. At the top, there is a blue header bar with a menu icon, a 'Choose Theme' section with a sun icon, a toggle switch, a moon icon, and a user profile icon labeled 'Smartrise User'. Below the header, the page title is 'Add Job' with a breadcrumb 'All Jobs / Add Job'. A blue information icon is followed by the text: 'Fill in the appropriate white spaces below. Essential information is mark with an asterisk (*)'. Under the heading 'Job Info', there are five input fields: 'Job Name: *', 'Job Number: *', 'Job ID: *', 'Group: *', and 'Assign To: 5555 *'. The 'Assign To' field is a dropdown menu with 'Office' selected. At the bottom right, there are two buttons: a grey 'Cancel' button and a blue 'Save' button.

Figure 64: Add Job

When completed adding a new job, click on the Save button. If some information has not been entered in a required field, a value is required message shall be displayed on that field.

Choose Theme: [Settings] [Light] [Dark] Smartrise User

Add Job

All Jobs / Add Job

Fill in the appropriate white spaces below. Essential information is mark with an asterisk (*)

Job Info

Job Name: *

This value is required.

Job Number: *

This value is required.

Job ID: *

This value is required.

Group: *

This value is required.

Assign To: 5555 *

Cancel Save

Figure 65: Add Job – Value is Required Message

Upon successful submission, a pop-up shall display that a new job has been added successfully.

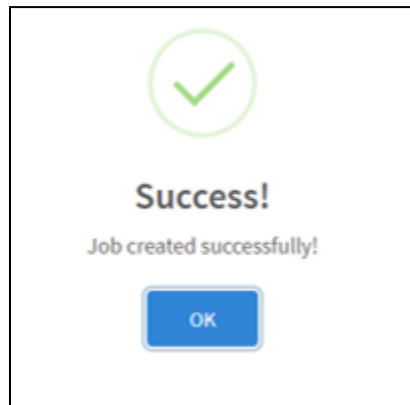


Figure 66: Job created successfully! Pop-up

Click the OK button. The View Job screen shall be displayed.

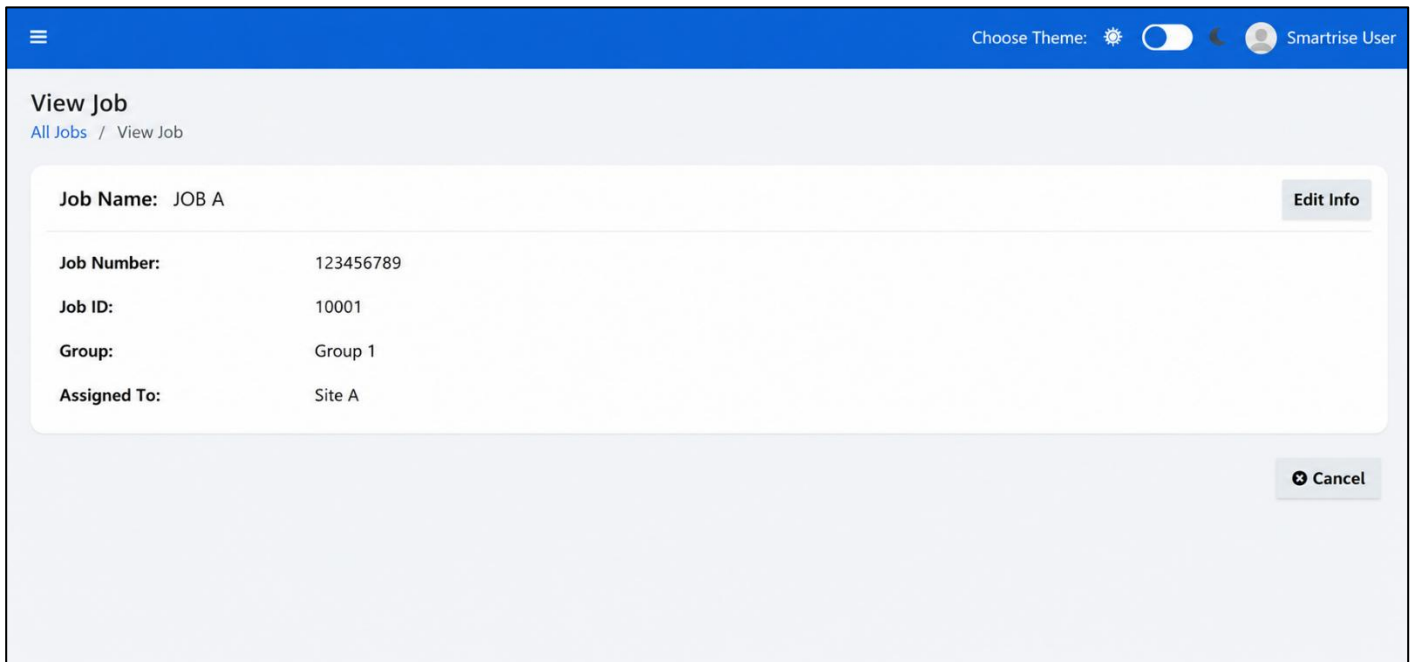


Figure 67: View Job

13.3.2 View Job

The View Job screen allows authorized users to view details about the job.

There are two ways to view job information.

- ◆ From the Manage Jobs screen, click on View under the Actions column.
- ◆ After a job has been added and the user clicks OK from the Successful pop-up.

13.3.3 Edit Job

Job information can be updated when there is a change to who is assigned to the job.

There are two ways to edit job information.

- ◆ From the View Job screen, click on the Edit Info button.
- ◆ From the Manage Sites screen, click on Edit under the Actions column.

The screenshot shows the 'Edit Job' interface. At the top, there is a blue header with a menu icon, 'Choose Theme' with a sun/moon icon, and 'Smartrise User'. Below the header, the page title is 'Edit Job' with a breadcrumb 'All Jobs / Edit Job Details'. An information icon and text state: 'Fill in the appropriate white spaces below. Essential information is mark with an asterisk (*)'. The form is titled 'Job Info' and contains the following fields:

- Job Name: *** with a text input containing 'Job A'.
- Job Number: *** with a text input containing '123456789'.
- Job ID: *** with a text input containing '10001'.
- Group: *** with a text input containing 'Group 1'.
- Assign To: 5555 *** with a dropdown menu showing 'Site A'.

At the bottom right of the form area, there are two buttons: 'Cancel' and 'Save'.

Figure 68: View Job – Edit Info Button

From the Edit Job screen, update the information and click Save.

Upon completion, a pop-up shall display that the job’s information has been updated successfully.

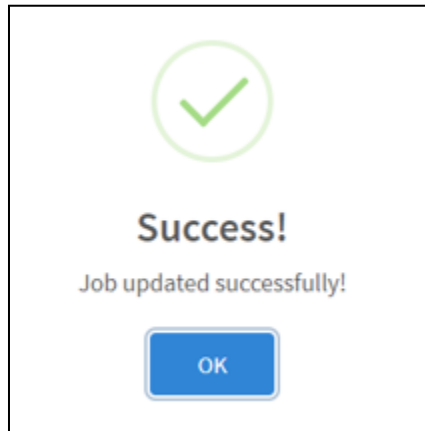


Figure 69: Job updated successfully! Pop-Up

13.3.4 Delete Job

A job can be deleted by clicking on the Delete Job button under the Actions column on the Manage Jobs screen. A pop-up shall display prompting confirmation from the Admin.

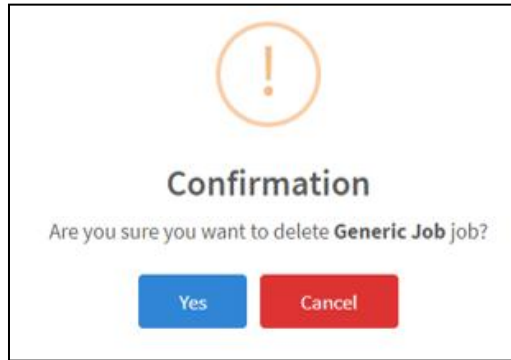


Figure 70: Delete Generic Job Pop-Up

Upon confirmation, a success pop-up shall display that the job has been successfully deleted.

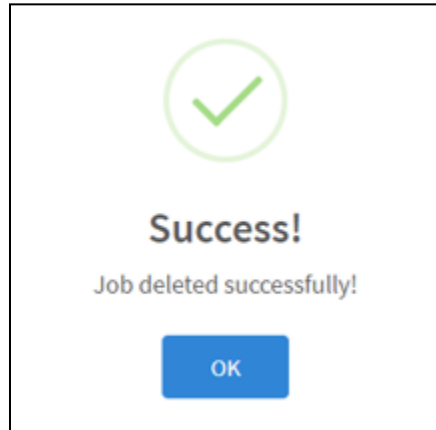


Figure 71: Job deleted! Pop-Up

13.4 User

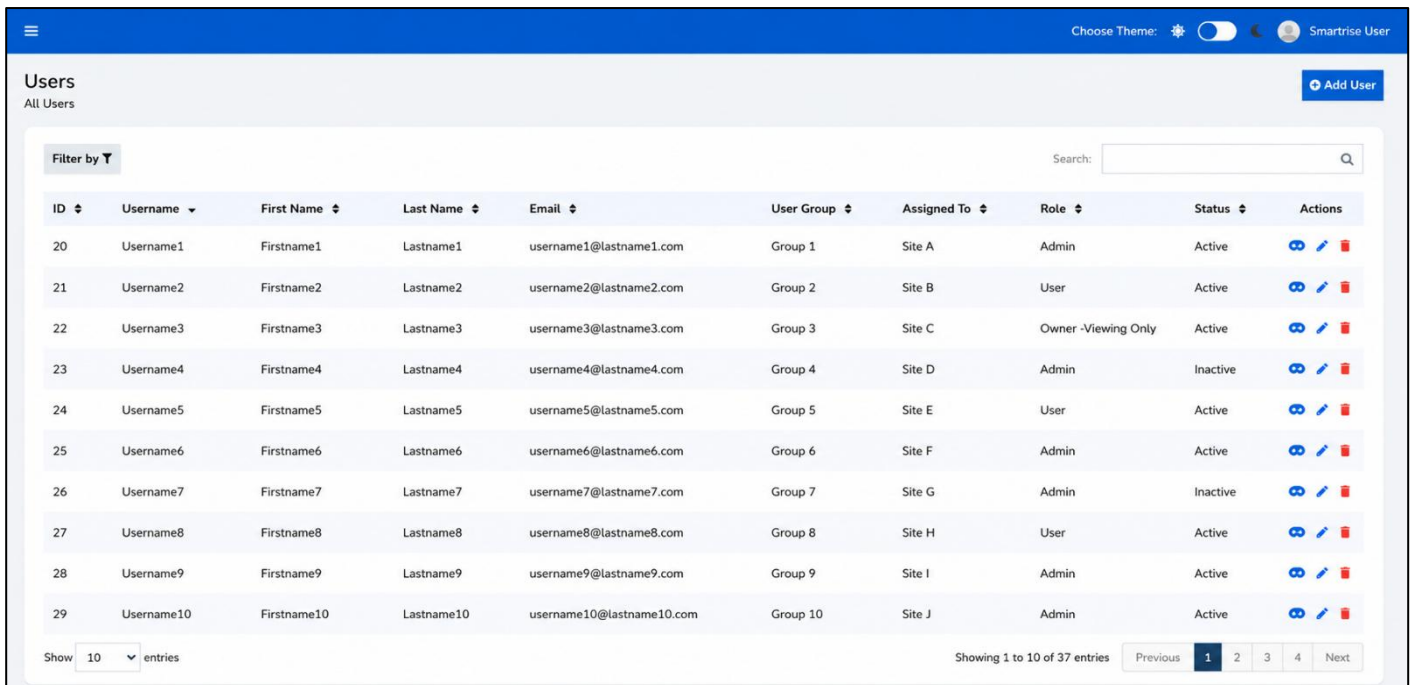
The Users module allows administrators to manage user accounts and access permissions within the Remote Monitoring application.

Each user is assigned one or more roles that determine the functions and resources available to them.

User records can be filtered by:

- ◆ Role
- ◆ Status

Users can be sorted, searched, created, edited, impersonated, and deleted from this module.

































ID	Username	First Name	Last Name	Email	User Group	Assigned To	Role	Status	Actions
20	Username1	Firstname1	Lastname1	username1@lastname1.com	Group 1	Site A	Admin	Active	  
21	Username2	Firstname2	Lastname2	username2@lastname2.com	Group 2	Site B	User	Active	  
22	Username3	Firstname3	Lastname3	username3@lastname3.com	Group 3	Site C	Owner -Viewing Only	Active	  
23	Username4	Firstname4	Lastname4	username4@lastname4.com	Group 4	Site D	Admin	Inactive	  
24	Username5	Firstname5	Lastname5	username5@lastname5.com	Group 5	Site E	User	Active	  
25	Username6	Firstname6	Lastname6	username6@lastname6.com	Group 6	Site F	Admin	Active	  
26	Username7	Firstname7	Lastname7	username7@lastname7.com	Group 7	Site G	Admin	Inactive	  
27	Username8	Firstname8	Lastname8	username8@lastname8.com	Group 8	Site H	User	Active	  
28	Username9	Firstname9	Lastname9	username9@lastname9.com	Group 9	Site I	Admin	Active	  
29	Username10	Firstname10	Lastname10	username10@lastname10.com	Group 10	Site J	Admin	Active	  

Figure 72: Manage User

13.4.1 Add User

To add a new user, click on the Add User button. The Add User screen is displayed, prompting for the new user's basic information.

- ◆ First Name
- ◆ Last Name
- ◆ Email Address
- ◆ Contact Number
- ◆ User Group
- ◆ Contractor
- ◆ Site
- ◆ Status: whether Active or Inactive (checkmark corresponds to Active).
- ◆ Username
- ◆ Password: must consist of uppercase, number, special characters, and length criteria.

Figure 73: Add User

When completed adding a new user, click on the Save button. If some information has not been entered in a required field, a value is required message shall be displayed on that field.

Figure 74: Add User – Value is Required Message

Upon successful submission, a pop-up shall display that a new user has been added successfully.

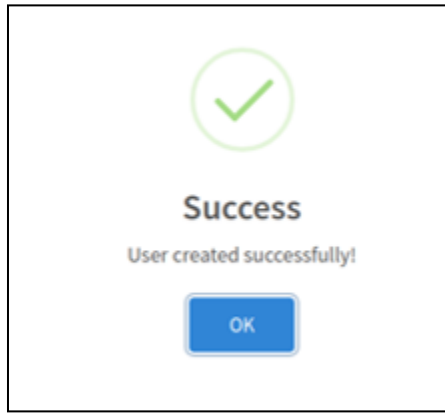


Figure 75: User created successfully! Pop-up

Roles and permissions must be assigned to the new user. To add roles and permissions, click OK from the successful pop-up. The Edit User screen shall be displayed.

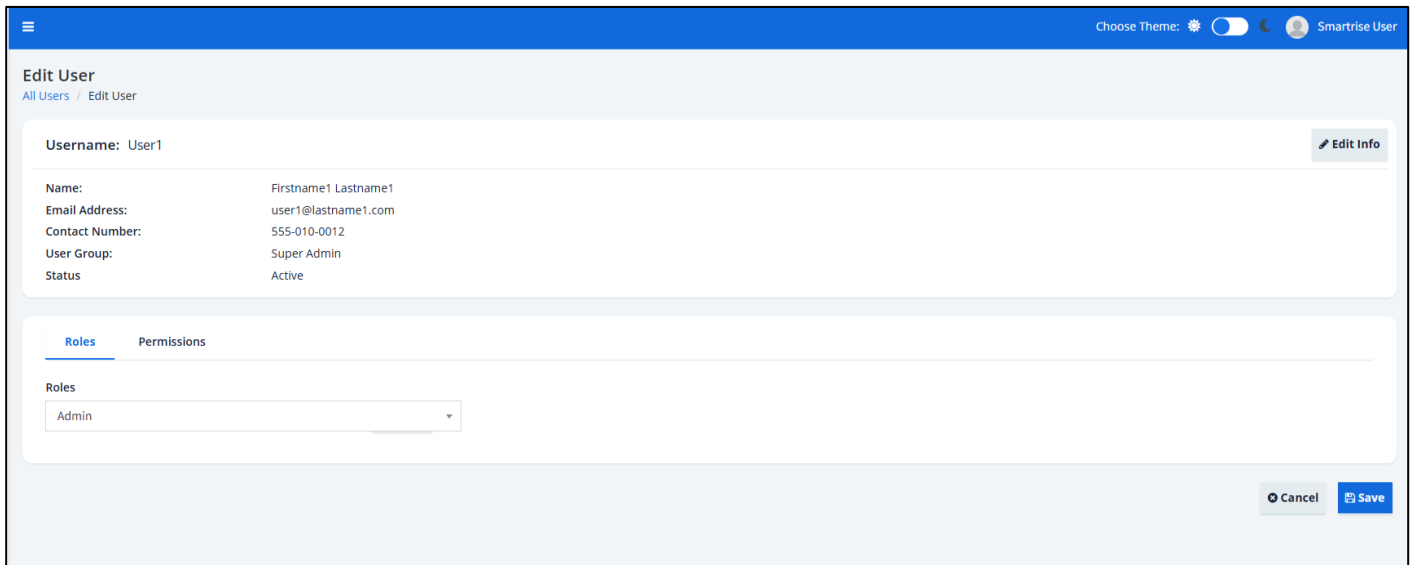


Figure 76: Edit User

13.4.2 Add Role

From the Role tab, click on the Roles drop-down list. Select a role and click Save.

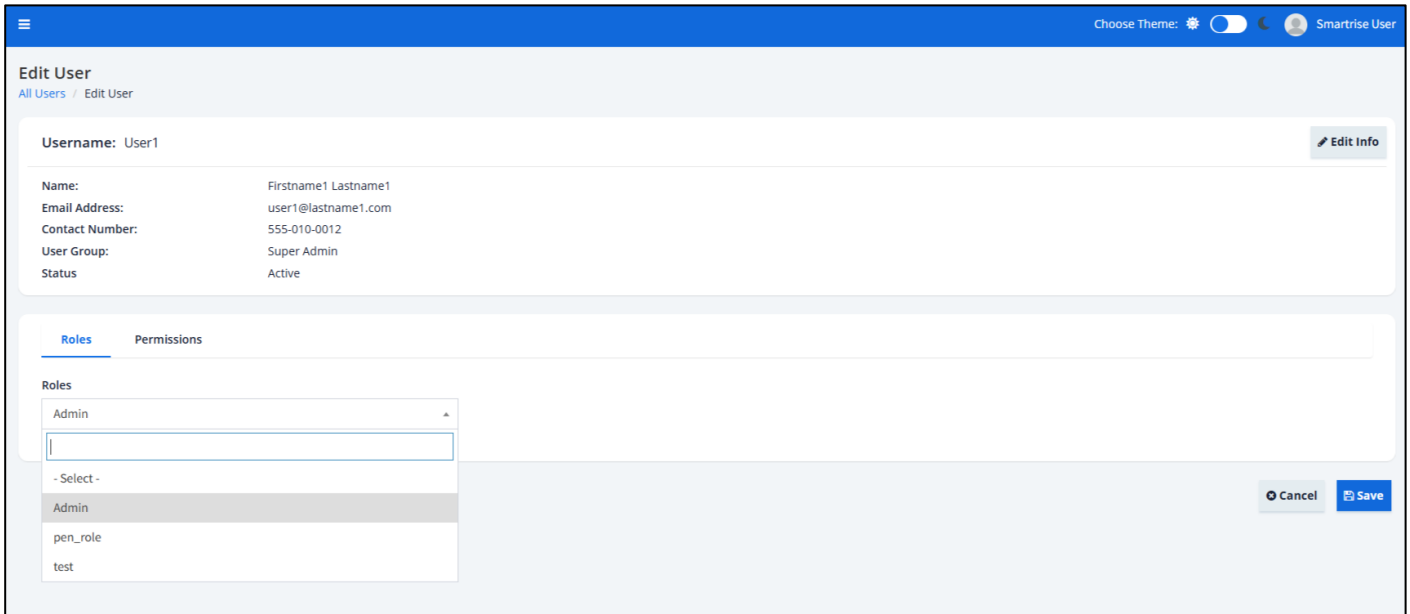


Figure 77: Edit User – Add Roles

When completed adding a role, click on the Save button. If no role has been selected, an Error pop-up shall be displayed.

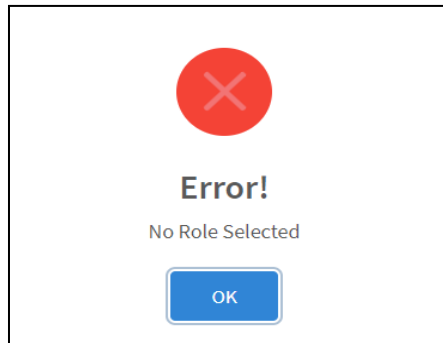


Figure 78: Error Pop-up

Upon successful submission, a pop-up shall display that a new role has been added successfully.

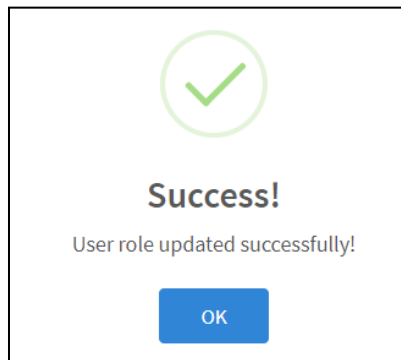


Figure 79: User role updated successfully! Pop-up

13.4.3 Add Permissions

From the Permissions tab, select the permissions required for users to perform tasks.

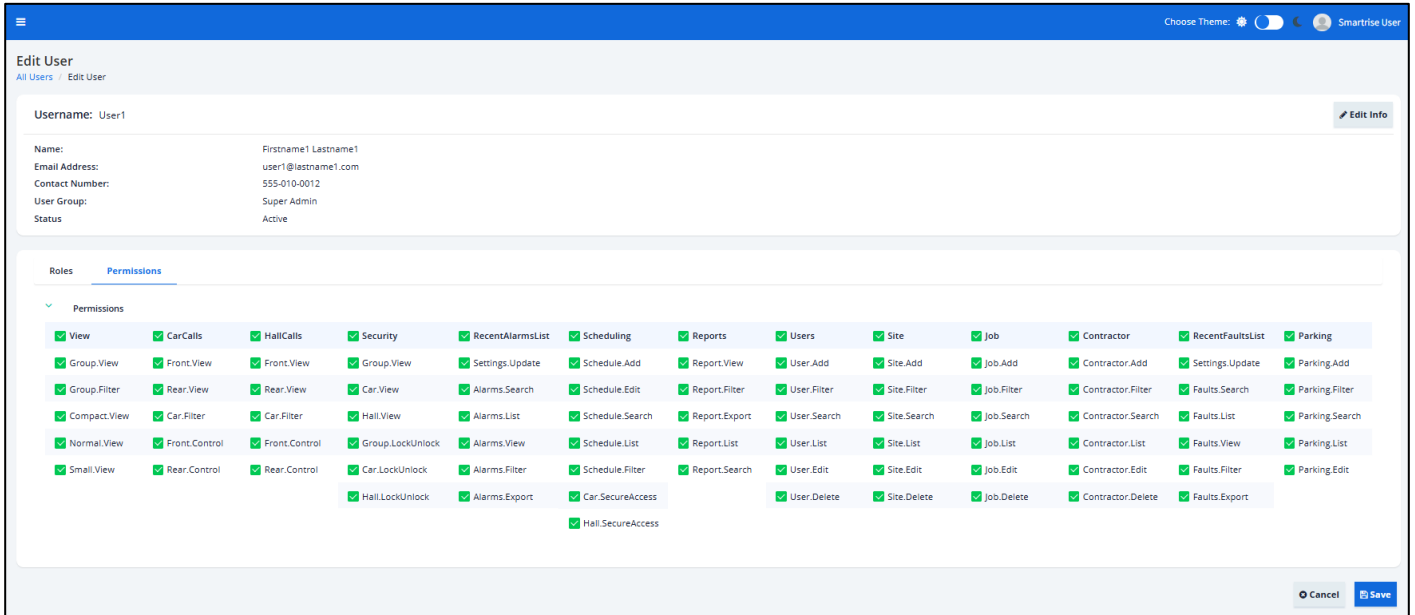


Figure 80: Edit User – Add Permissions

13.4.4 Edit User

User information can be updated when there is a change to the user’s contact information and/or assigned roles and permissions.

There are two ways to edit user’s information.

- ◆ From the Manage User screen, click on Edit under the Actions column.
- ◆ From the Edit User screen, click on the Edit Info button.

From the Edit User Info screen, update the information and click Save.

The screenshot shows a web interface for editing user information. At the top, there's a blue header with a menu icon, 'Choose Theme' with a sun and moon icon, and 'Smartrise User'. Below the header, the page title is 'Edit User Info' with a breadcrumb 'All Users > Edit User Details'. A blue information icon and text state: 'Fill in the appropriate white spaces below. Essential information is mark with an asterisk (*)'. The form is organized into sections: 'Basic Info' with fields for 'First Name: *' (containing 'Firstname1'), 'Last Name: *' (containing 'Lastname1'), 'Email Address: *' (containing 'user1@lastname1.com'), and 'Contact Number: *' (containing '555-010-0012'). The 'User Group: *' is a dropdown menu showing 'Super Admin'. The 'Status' section has a checked 'Active' checkbox. 'Enable Notifications' has an unchecked 'Active' checkbox. The 'Login' section has a 'Username: *' field containing 'romy'. At the bottom left are 'Reset Password' and 'Reset OTP' buttons. At the bottom right are 'Cancel' and 'Save' buttons.

Figure 81: Edit User Info

Notification Engine: The Remote Monitoring Application includes a notification engine that automatically sends email / SMS alerts to designated personnel whenever a fault or alarm is triggered on the Controller

Upon completion, a pop-up shall display that the user information has been updated successfully.

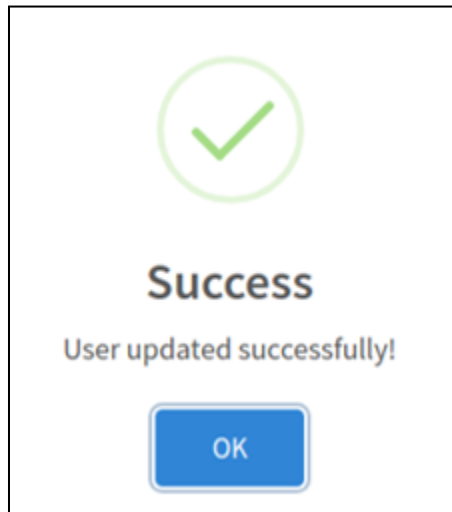


Figure 82: User updated successfully! Pop-Up

13.4.5 Delete User

A job can be deleted by clicking on the Delete Job button under the Actions column on the Manage User screen. A pop-up shall be displayed prompting confirmation from the Admin.

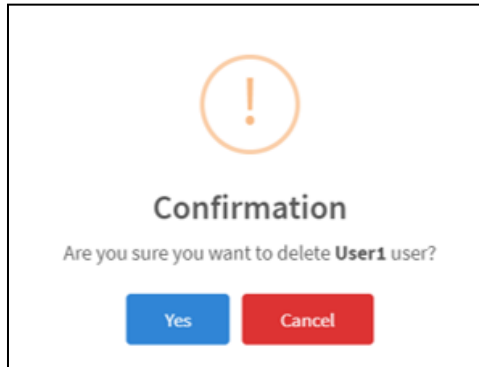


Figure 83: Delete User Pop-Up

Upon confirmation, a success pop-up shall display that the user has been successfully deleted.

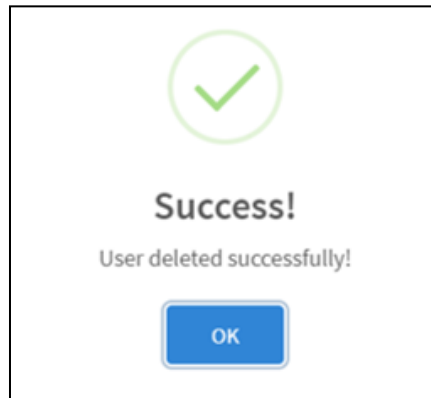
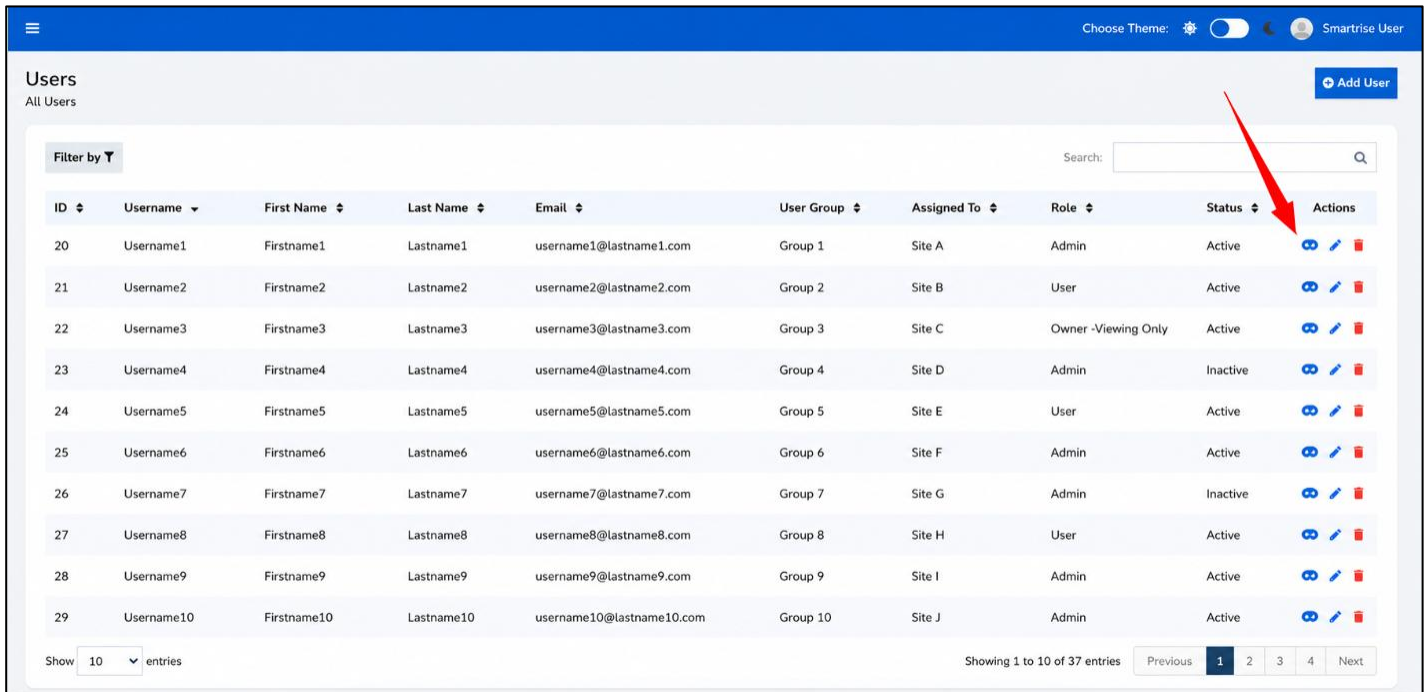


Figure 84: User deleted! Pop-Up

13.4.6 Impersonate User

User Impersonation allows administrators to access and operate the Remote Monitoring application as if authorized personnel were logged in as that operator. To impersonate or login as a certain user, click on the Impersonate Login button under the Actions column.

































ID	Username	First Name	Last Name	Email	User Group	Assigned To	Role	Status	Actions
20	Username1	Firstname1	Lastname1	username1@lastname1.com	Group 1	Site A	Admin	Active	  
21	Username2	Firstname2	Lastname2	username2@lastname2.com	Group 2	Site B	User	Active	  
22	Username3	Firstname3	Lastname3	username3@lastname3.com	Group 3	Site C	Owner -Viewing Only	Active	  
23	Username4	Firstname4	Lastname4	username4@lastname4.com	Group 4	Site D	Admin	Inactive	  
24	Username5	Firstname5	Lastname5	username5@lastname5.com	Group 5	Site E	User	Active	  
25	Username6	Firstname6	Lastname6	username6@lastname6.com	Group 6	Site F	Admin	Active	  
26	Username7	Firstname7	Lastname7	username7@lastname7.com	Group 7	Site G	Admin	Inactive	  
27	Username8	Firstname8	Lastname8	username8@lastname8.com	Group 8	Site H	User	Active	  
28	Username9	Firstname9	Lastname9	username9@lastname9.com	Group 9	Site I	Admin	Active	  
29	Username10	Firstname10	Lastname10	username10@lastname10.com	Group 10	Site J	Admin	Active	  

Figure 85: Manage Users – Impersonate User

13.5 Roles

Roles define the level of access and permissions granted to users within the Remote Monitoring application.

Roles simplify user administration by grouping related permissions into predefined access profiles.

The following default roles are available:

- ◆ Super Admin
- ◆ Smartrise Admin
- ◆ Smartrise Agent
- ◆ Smartrise User
- ◆ Contractor Admin
- ◆ Contractor Agent
- ◆ Contractor User
- ◆ Site Admin
- ◆ Site Agent
- ◆ Site User

Each role is assigned a predefined set of permissions that can be customized as required.

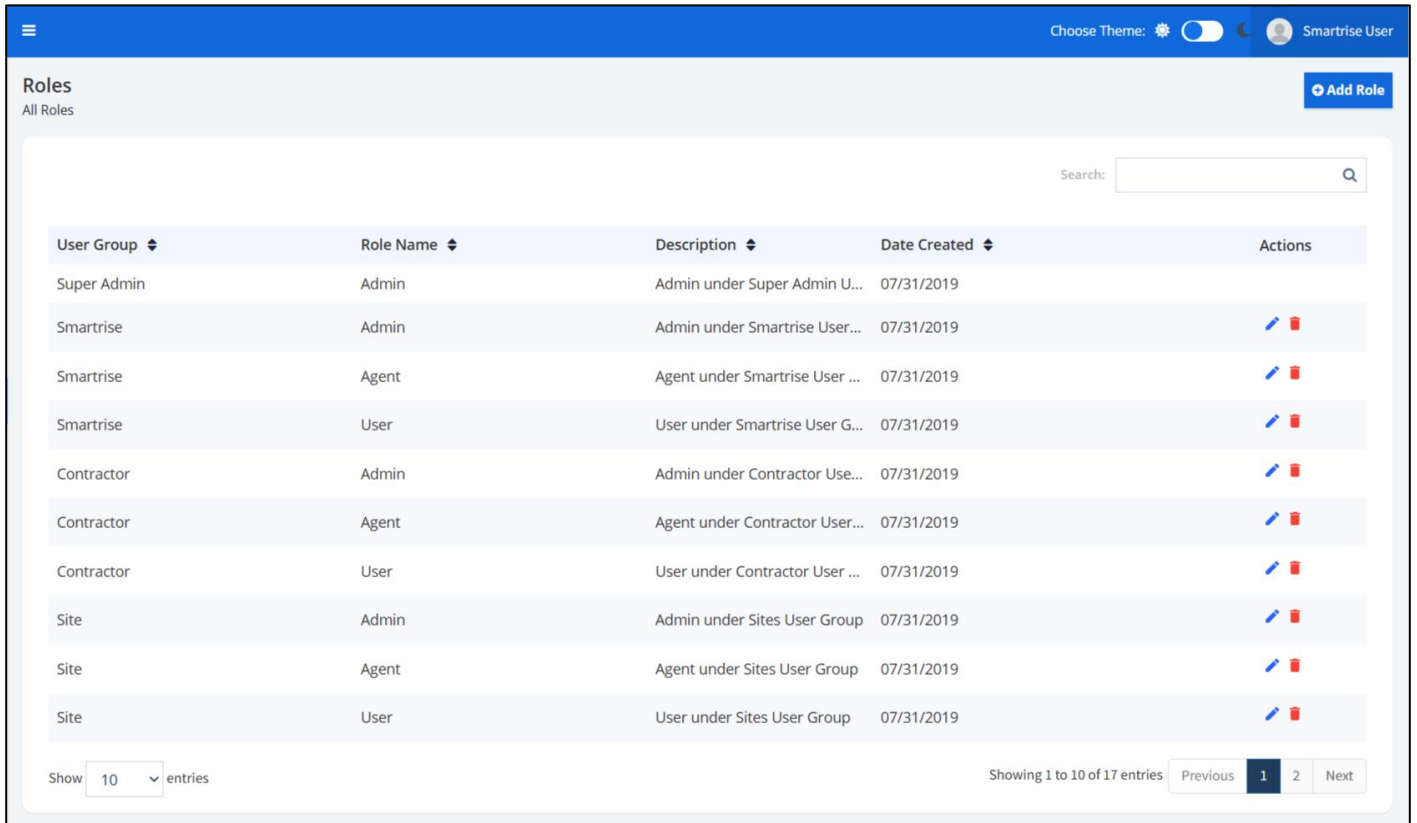


Figure 86: Manage Roles

13.5.1 Add Role

To add a new role, click on the Add Role button. The Add Role screen shall be displayed, prompting for the new user’s basic information.

- ◆ **Role Name:** This is the name of the role.
- ◆ **Description:** While optional, a short description of the role can be useful in conveying an idea of what the role entails.
- ◆ **User Group:** Belongs to either Smartrise, Contractor, or Site.

After the basic information has been entered, click on Permissions collapsible label to expand the list of permissions to select from. Authorized users can then select the permissions with subtasks that are required for the role. For example, if the Site check box is selected, all its subtasks will be automatically selected.

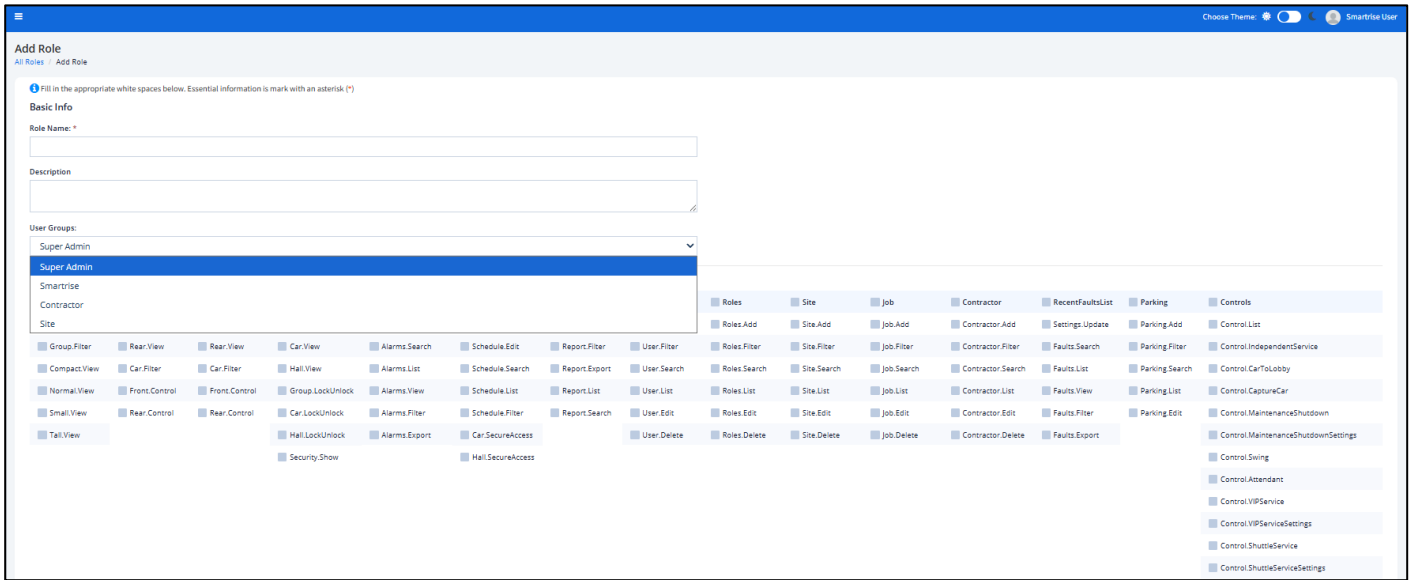


Figure 87: Add Role – Part I

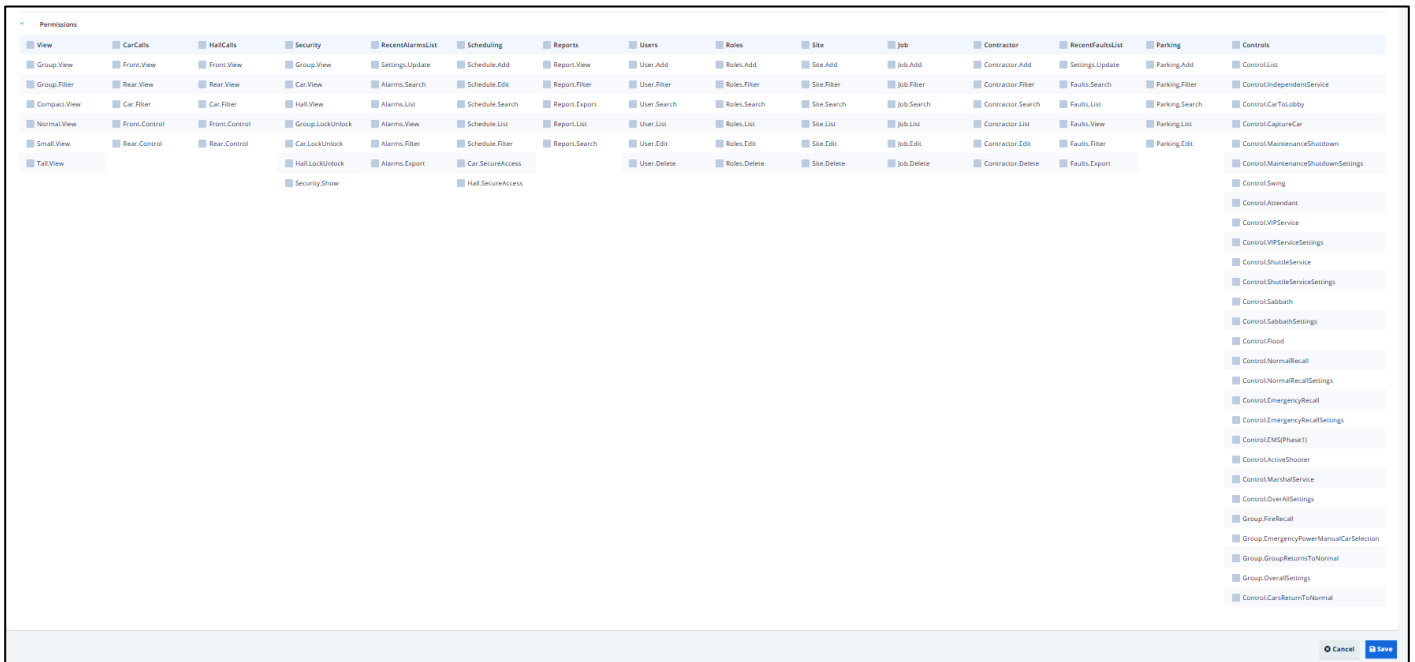


Figure 88: Add Role – Part II

When completed adding roles and permissions, click on the Save button. If no permissions were selected, a Warning pop-up shall be displayed.

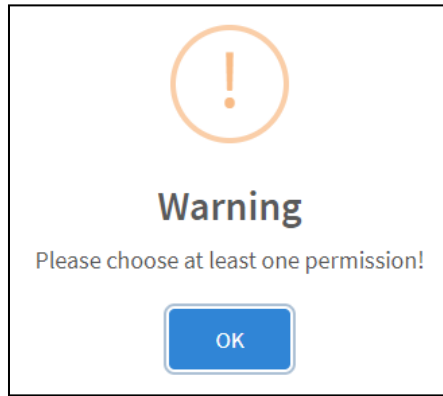


Figure 89: Warning Pop-Up

Upon successful submission, a pop-up shall display that a new role has been added successfully.

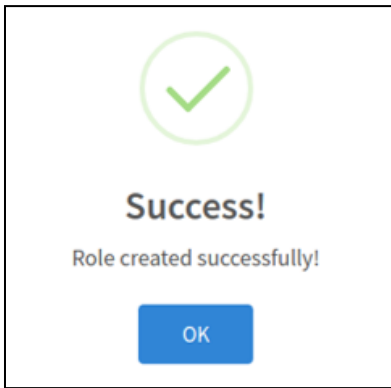


Figure 90: Role created successfully! Pop-up

13.5.2 Edit Role

A role can be edited to modify permissions or change the role description. To edit a role, from the Manage Roles screen, click on the Edit Role button under the Actions column.

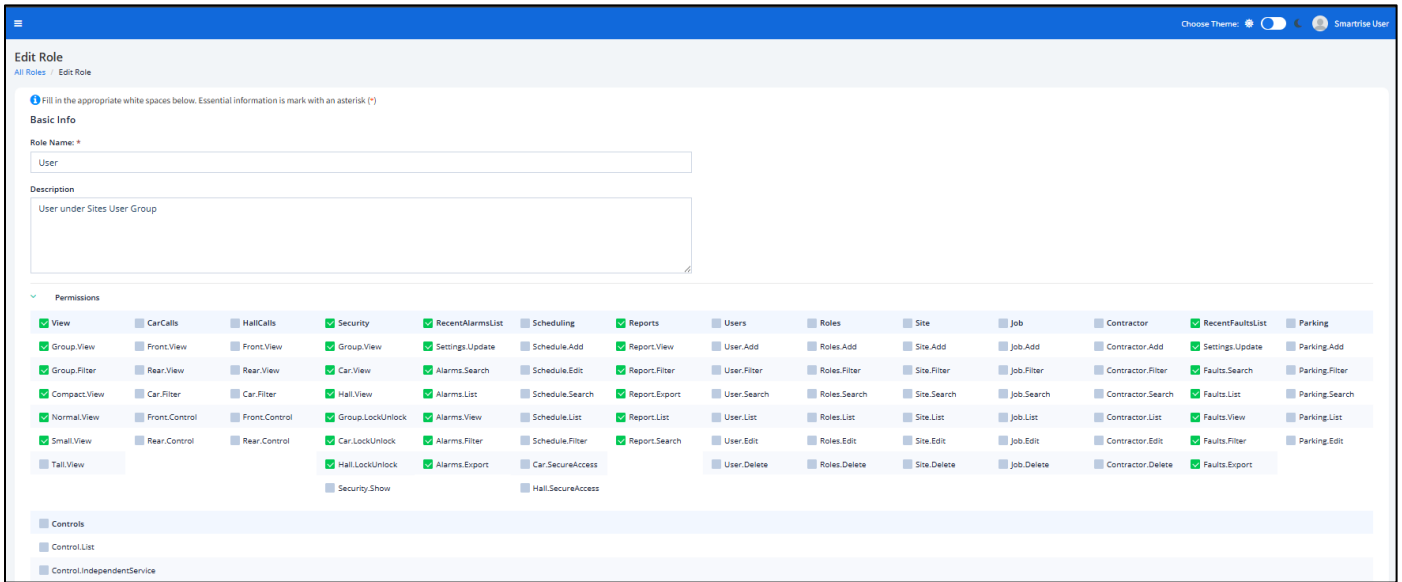


Figure 91: Edit Role

Upon completion, a pop-up shall display that the role has been updated successfully.

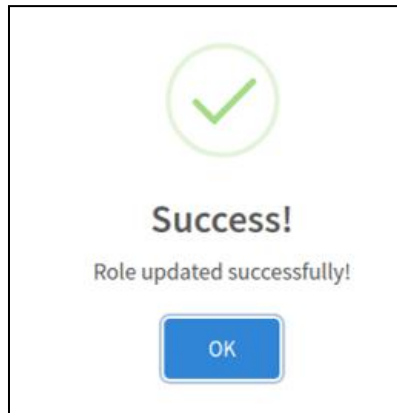


Figure 92: Role updated successfully! Pop-Up

13.5.3 Delete Role

An existing role can be deleted by clicking on the Delete Role button under the Actions column on the Manage Role screen. A pop-up shall be displayed prompting confirmation from the Admin.

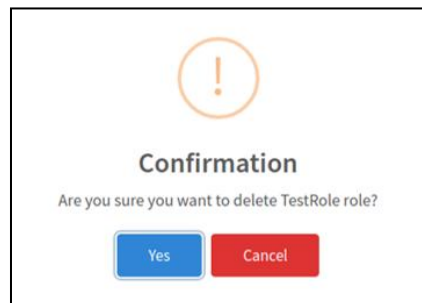


Figure 93: Delete Role Pop-Up

Upon confirmation, a success pop-up shall display that the role has been successfully deleted.

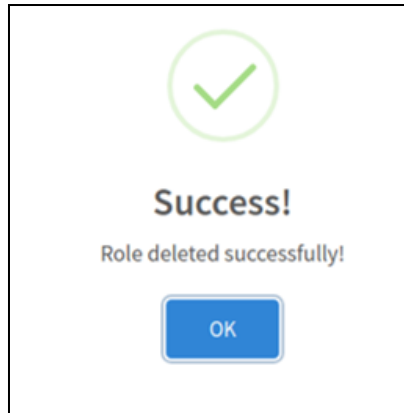


Figure 94: Role deleted successfully! Pop-Up