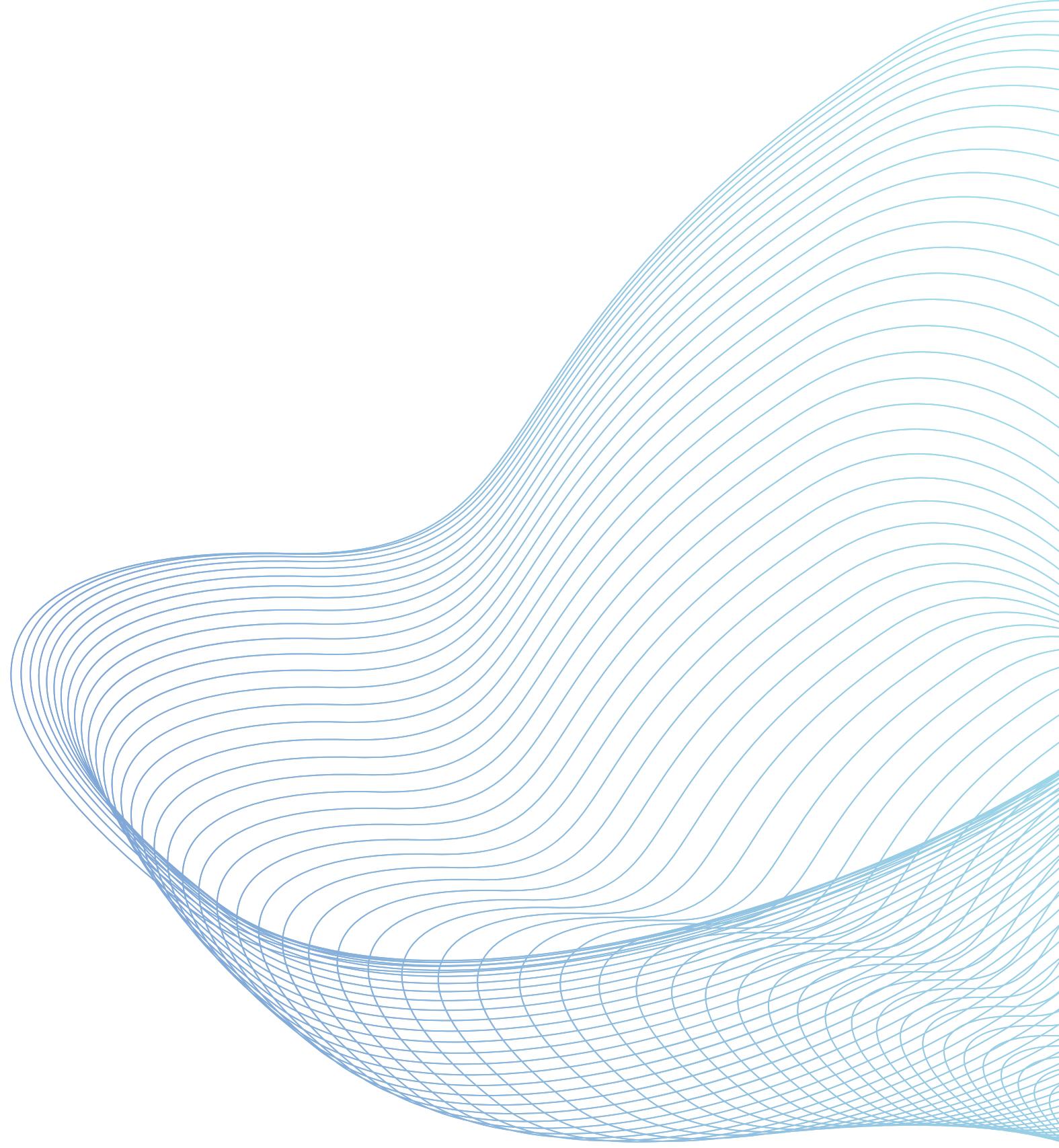




**Madinah Health Cluster**

# **CIRCUITS SYSTEM**



2024 - 1446



# TABLE OF CONTENT

- Overview
- Prerequisites
- System Diagrams
- User Guide
- Privileges
- Suggestions



Madinah Health Cluster

# SYSTEM OVERVIEW

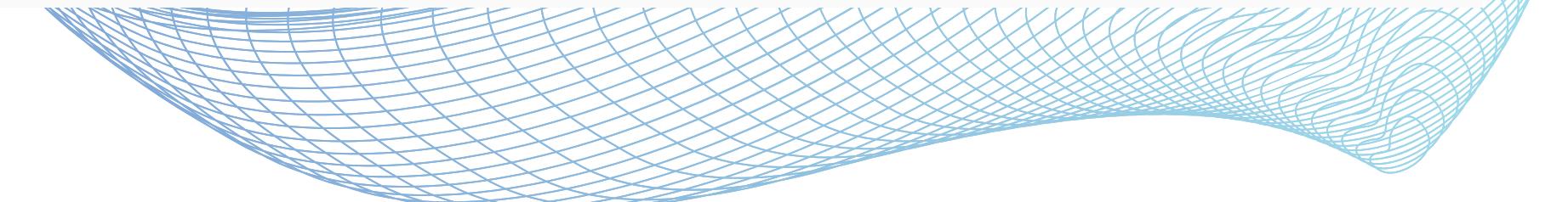
The circuit management system is designed to simplify the management and maintenance of telecommunication circuits within the Madinah health cluster. This web-based application, developed using the Laravel framework, allows tracking and updating different circuits and their associated events.



A screenshot of a web-based sign-in form for the Madinah Health Cluster. The form is contained within a white rectangular box with rounded corners. At the top left is the cluster's logo, which includes a stylized green and blue flower-like icon and the text "مکان صحیح مکان حیاتی Madinah Health Cluster". To the right of the logo, the word "Sign in" is written in a bold, black font. Below this, there are two input fields: one for "Email address" and one for "Password", both preceded by an asterisk to indicate they are required. Underneath the password field is a small checkbox labeled "Remember me". At the bottom of the form is a large, solid blue rectangular button with the words "Sign in" written in white.

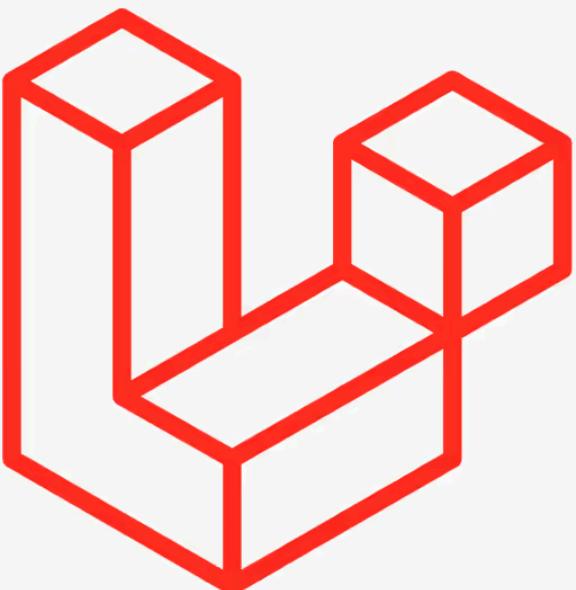


**Madinah Health Cluster**



# PREREQUISITES

- Larvel 10.0 +
- Livewire 3.0 +
- PHP 8.1 +
- Filament 3.0
- maatwebsite/excel



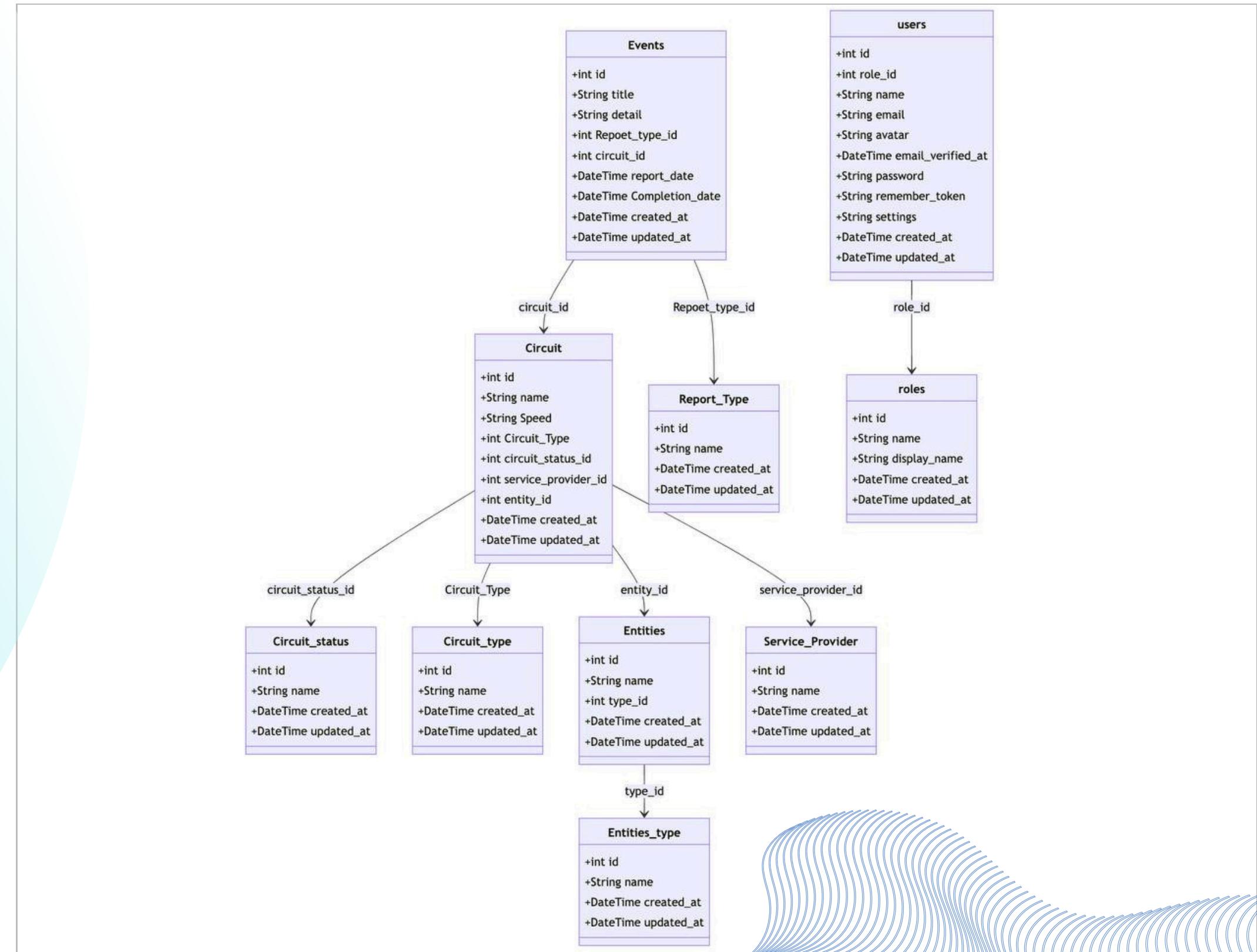
Laravel



Madinah Health Cluster

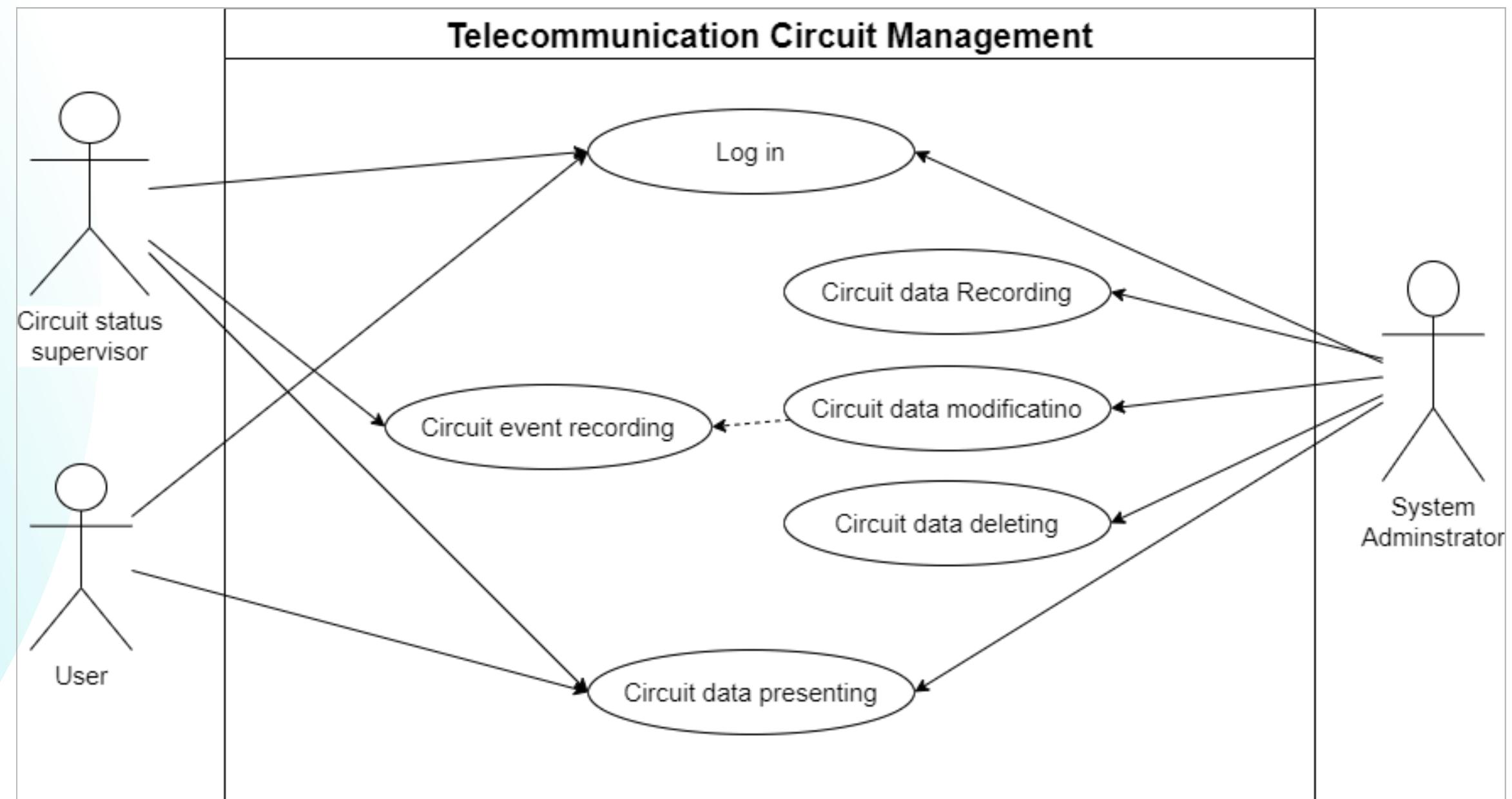
# SYSTEM DIAGRAMS

Figure 1: ERD



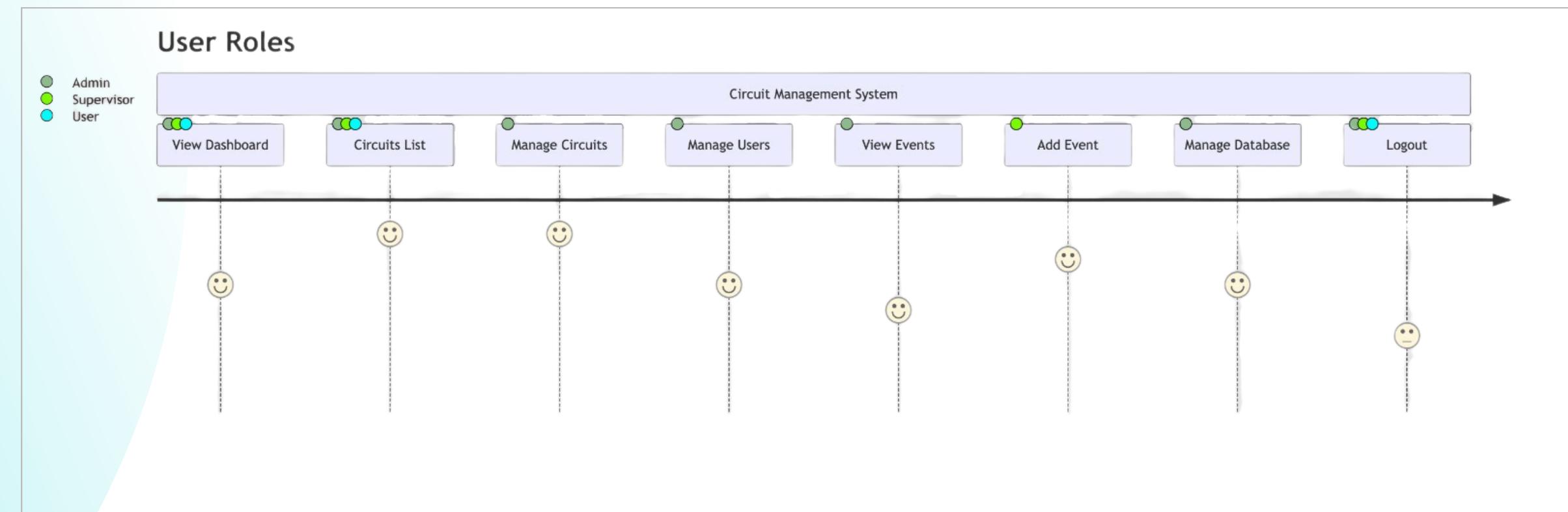
# SYSTEM DIAGRAMS

**Figure 2: Use Case**



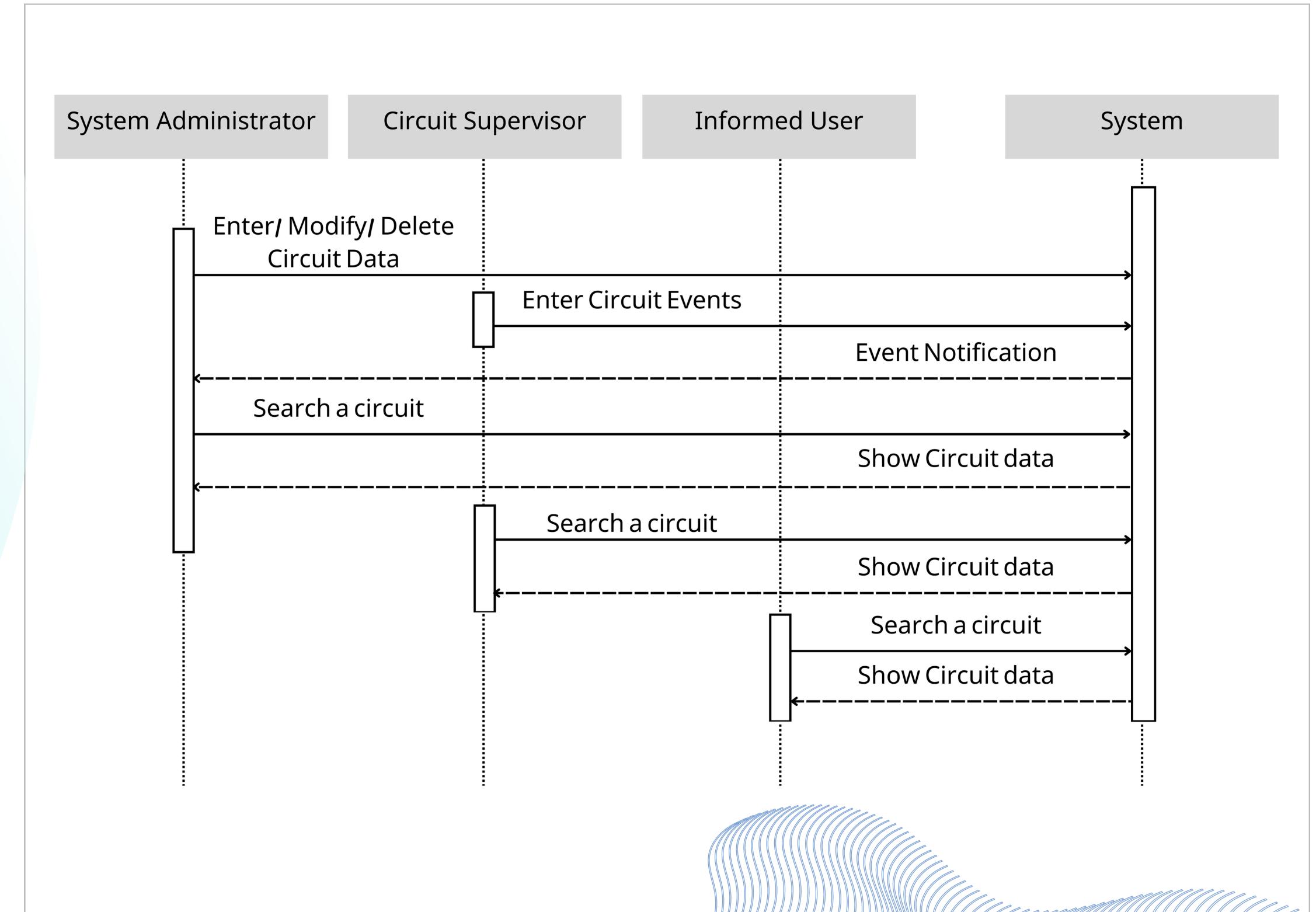
# SYSTEM DIAGRAMS

Figure 3: User Journey

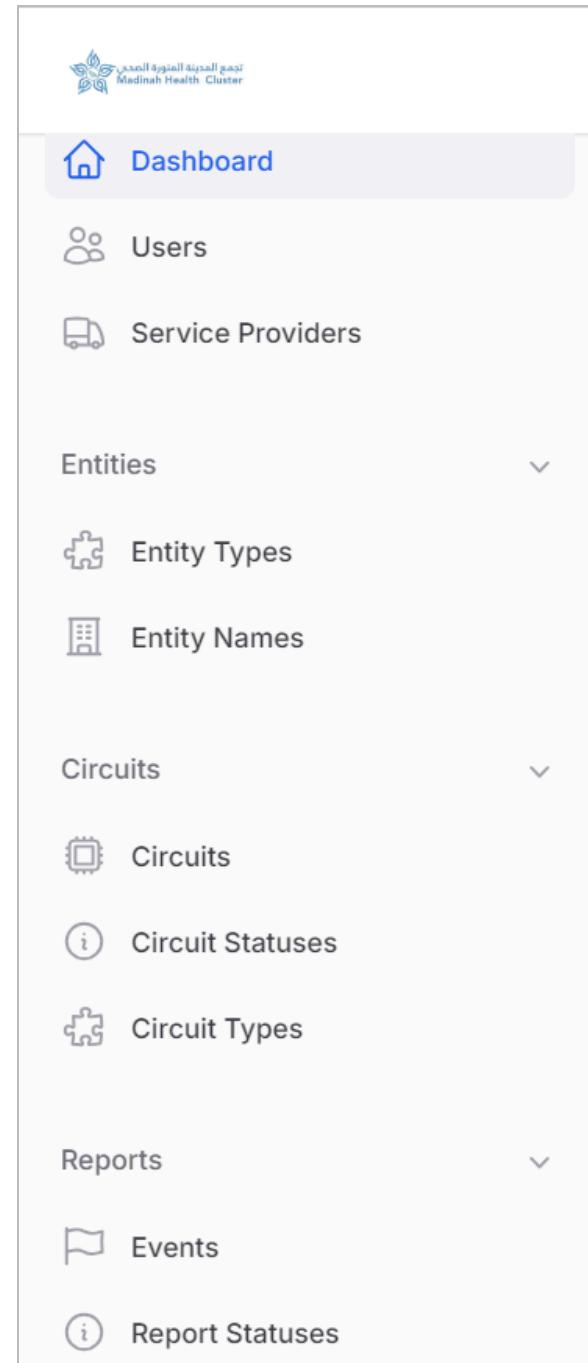


# SYSTEM DIAGRAMS

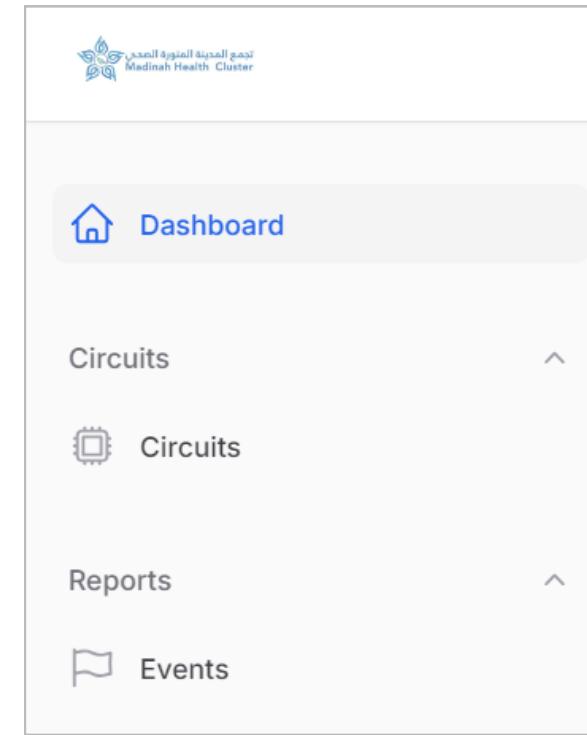
Figure 4: Sequence Diagram



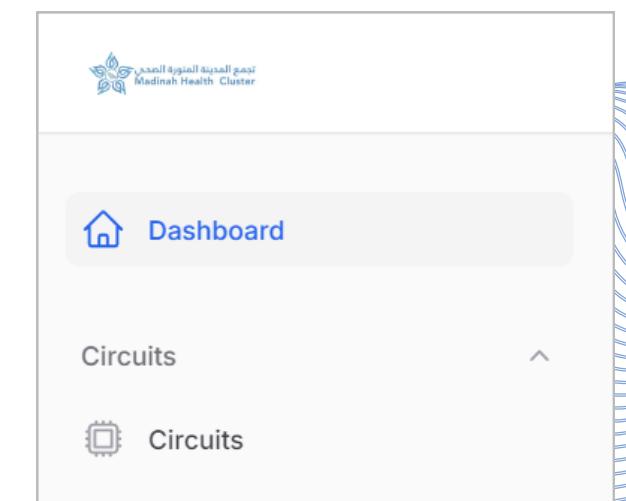
# USER GUIDE



**Figure 5:** Admin Main Menu



**Figure 6:** Admin Main Menu



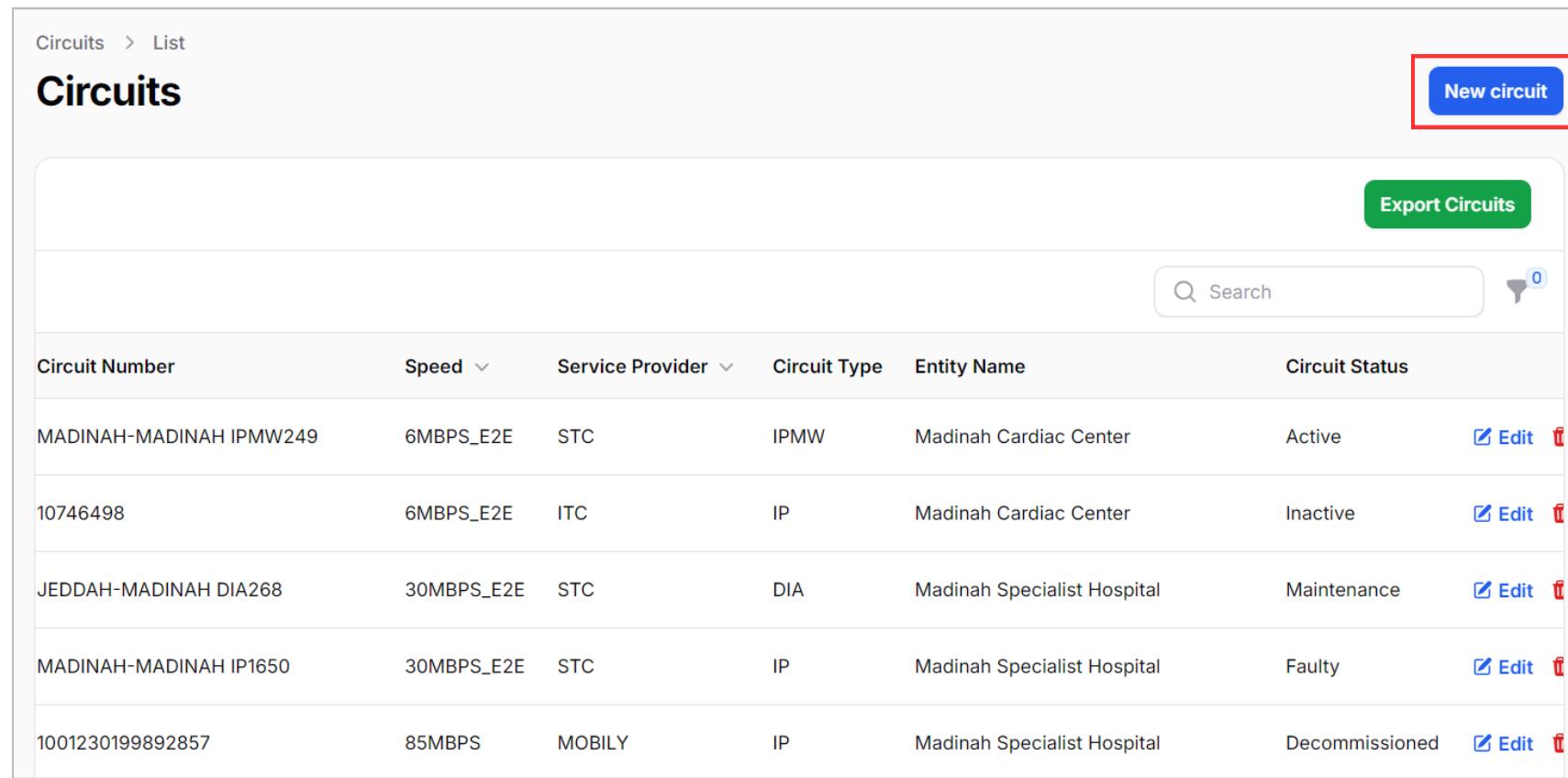
**Figure 7:** User Main Menu



Madinah Health Cluster

# USER GUIDE

## Create



Circuits > List

**Circuits**

Circuit Number	Speed	Service Provider	Circuit Type	Entity Name	Circuit Status	Action
MADINAH-MADINAH IPMW249	6MBPS_E2E	STC	IPMW	Madinah Cardiac Center	Active	<input checked="" type="checkbox"/> Edit 
10746498	6MBPS_E2E	ITC	IP	Madinah Cardiac Center	Inactive	<input checked="" type="checkbox"/> Edit 
JEDDAH-MADINAH DIA268	30MBPS_E2E	STC	DIA	Madinah Specialist Hospital	Maintenance	<input checked="" type="checkbox"/> Edit 
MADINAH-MADINAH IP1650	30MBPS_E2E	STC	IP	Madinah Specialist Hospital	Faulty	<input checked="" type="checkbox"/> Edit 
1001230199892857	85MBPS	MOBILY	IP	Madinah Specialist Hospital	Decommissioned	<input checked="" type="checkbox"/> Edit 

New circuit

Export Circuits

Search

Figure 8: New Button

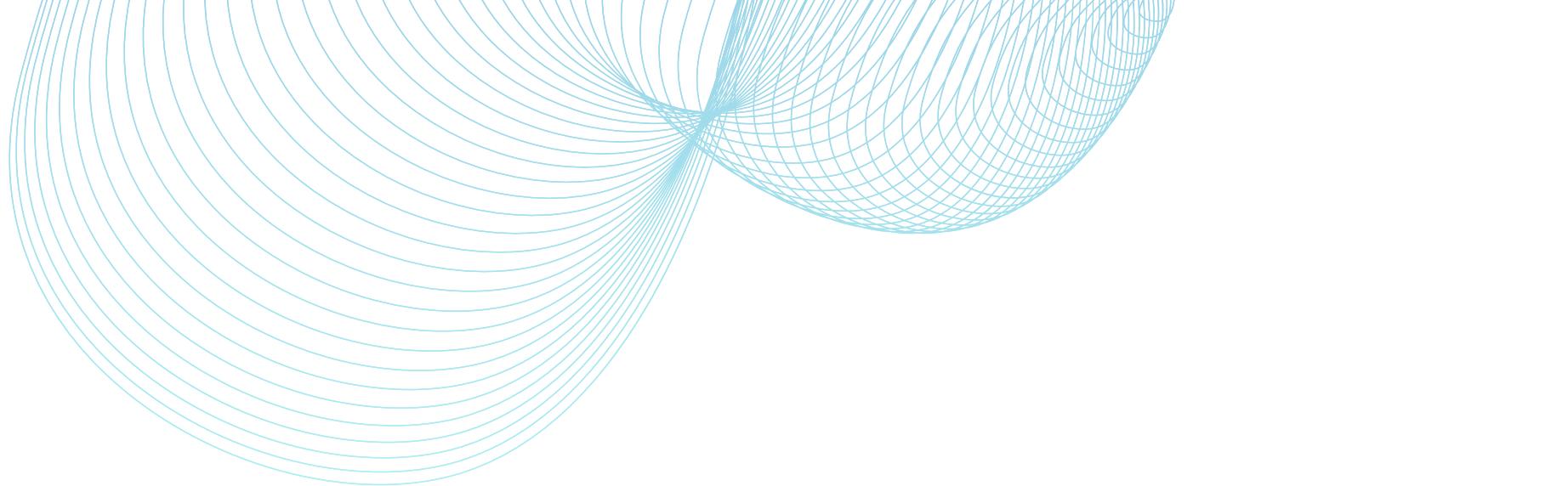
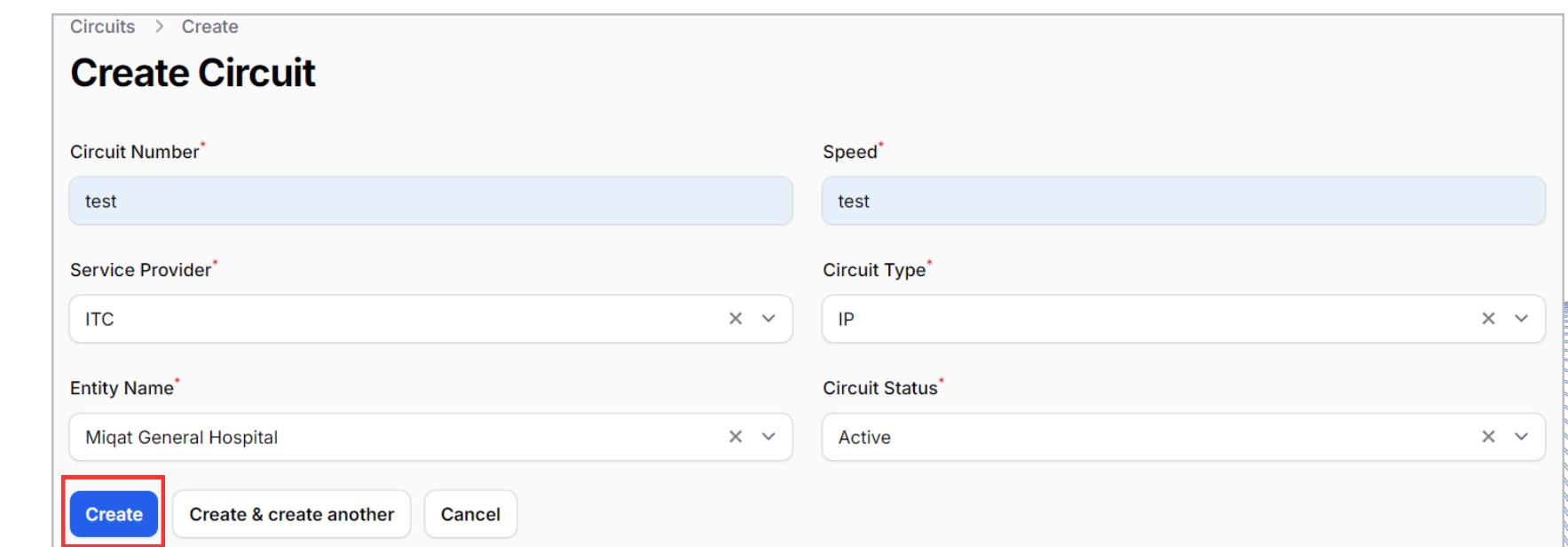


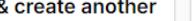
Figure 9: Create page



Circuits > Create

**Create Circuit**

Circuit Number*	Speed*
test	test
Service Provider*	Circuit Type*
ITC	IP
Entity Name*	Circuit Status*
Miqat General Hospital	Active

Create  Cancel



# USER GUIDE

## Edit

<input type="checkbox"/> test	test	ITC	IP	Miqat General Hospital	Active	 Edit  Delete
-------------------------------	------	-----	----	------------------------	--------	---

Figure 10: Edit Button

Circuits > Edit

### Edit Circuit

**Circuit Number\***

**Speed\***

**Delete**

**Service Provider\***

**Circuit Type\***

**Entity Name\***

**Circuit Status\***

**Save changes** **Cancel**

Figure 11: Edit page



# USER GUIDE

## Filter

**Filters** Reset

Service provider id

ITC × ▼

Circuit type id

All ▼

Entity name id

All ▼

Circuit status id

Faulty × ▼

**Figure 12: Filter Selection**

Active filters Service provider id: ITC × Circuit status id: Faulty ×

<input type="checkbox"/>	Circuit Number	Speed ▾	Service Provider ▾	Circuit Type	Entity Name	Circuit Status	<span style="color: blue;">Edit</span>	<span style="color: red;">Delete</span>
<input type="checkbox"/>	107465211	6MBPS_E2E	ITC	IP	King Fahad Hospital	Faulty	<span style="color: blue;">Edit</span>	<span style="color: red;">Delete</span>
<input type="checkbox"/>	test	test	ITC	IP	Miqat General Hospital	Faulty	<span style="color: blue;">Edit</span>	<span style="color: red;">Delete</span>

Showing 1 to 2 of 2 results Per page 10 ▾

**Figure 13: Filter Result**



# USER GUIDE

## Delete

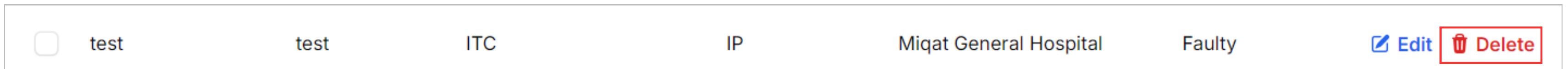


Figure 14: Delete Button

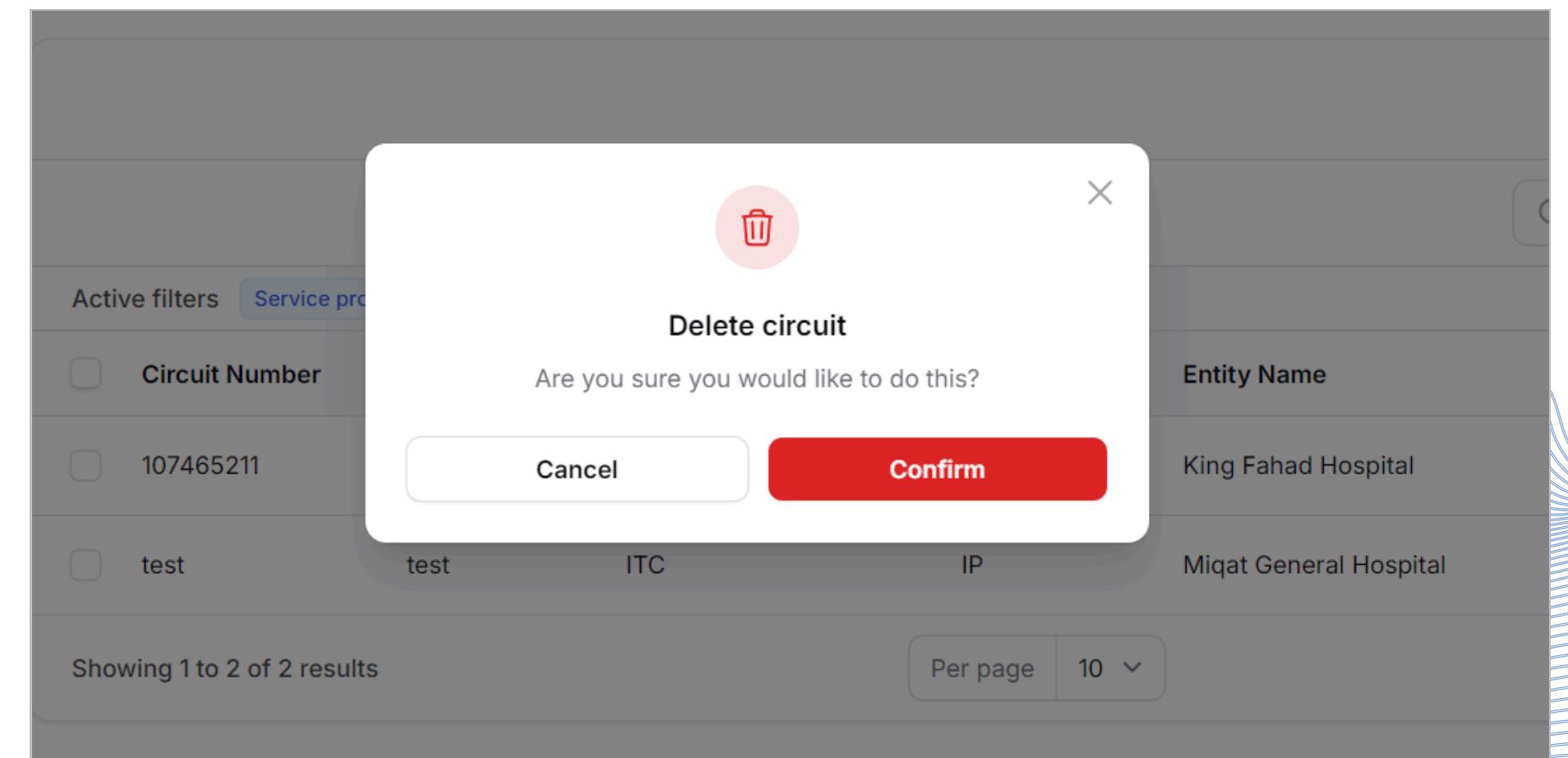


Figure 15: Confirm Delete



# USER GUIDE

## Dashboard

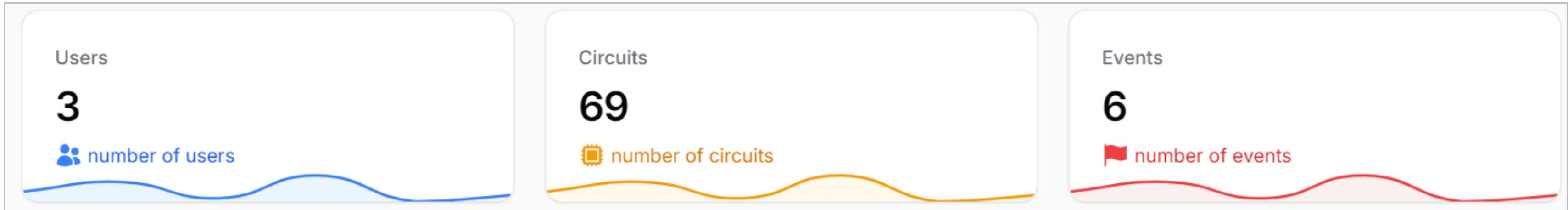
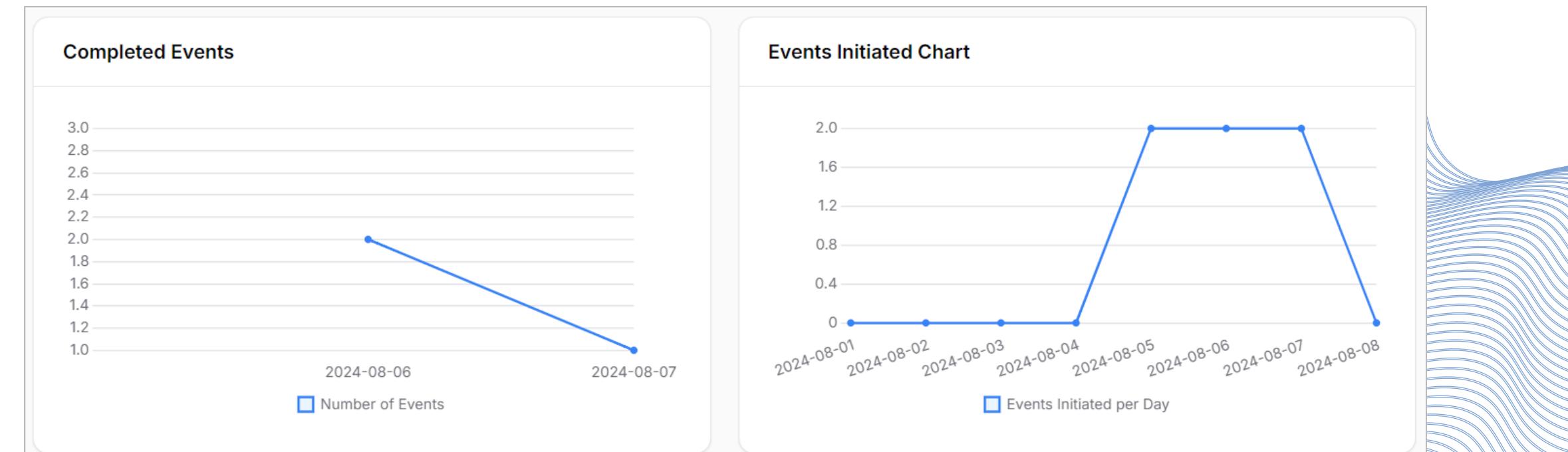


Figure 16: Dashboard Widget

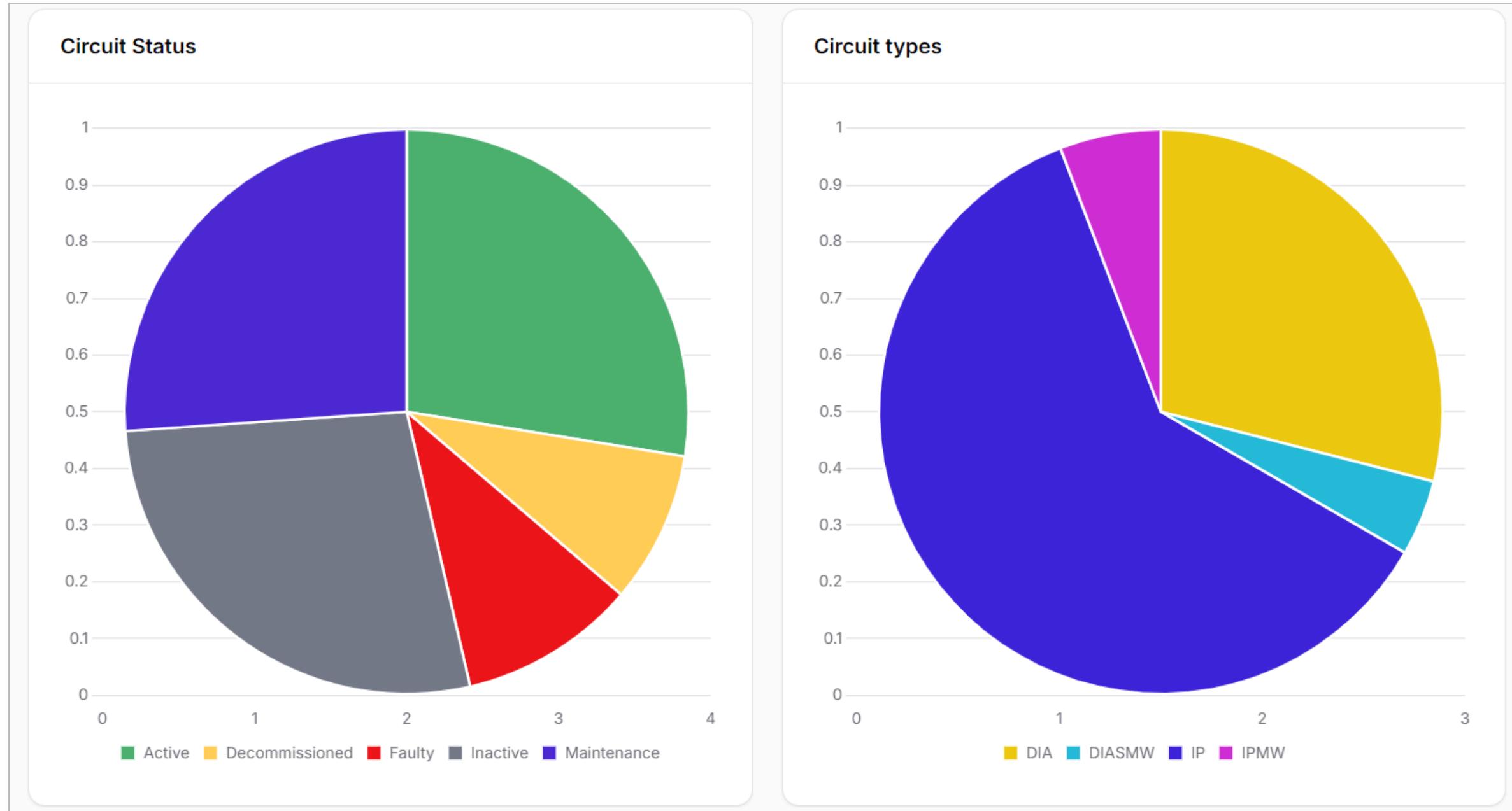
Figure 17: Dashboard Line Charts



# USER GUIDE

## Dashboard

Figure 18: Dashboard Line Charts



# PRIVILEGES

In the system there are 3 kinds of users.

- Admin
- Supervisor
- User

Each have custom privileges.

**Admin**

Have access to everything in the system

**Supervisor**

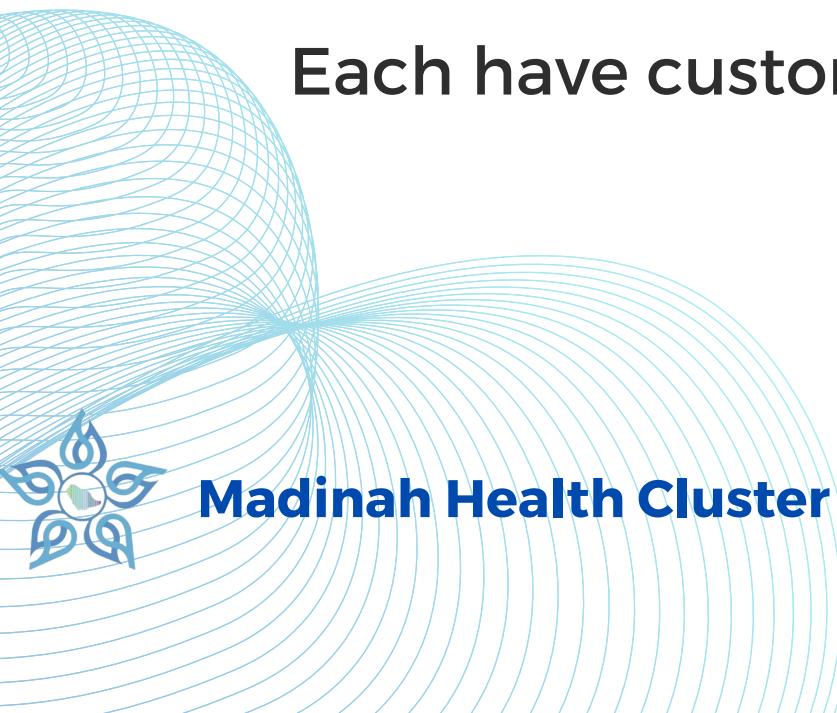
Have access to:

- Browse Circuits.
- Browse Events.
- Create New Event.
- Show Dashboard.

**User**

Have access to:

- Browse Circuits.
- Show Dashboard.



# SUGGESTIONS

Here are best practices  
that will help users  
effectively utilize and  
troubleshoot the system.

- **Regular Backups**

Backups of the database  
and configuration files to  
avoid data loss.

- **User Training**

to help users get familiar  
with the system and its  
functionalities.

- **Utilize Filament's  
Features**

Take full advantage of  
Filament's built-in features

- **Security Practices**

Validating user input,  
protecting against CSRF  
attacks, and using HTTPS  
for all communications.