



# ideaRoomX

## Tutorials

# Revision

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Date	Version	Changes
December 5, 2024	1.01	Clarified and refined for better readability and understanding.
October 16, 2023	1.00	Initial release

# Copyright

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Chapter

1

# Overview

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## 1.1 ideaRoomX and ideaGatewayX

**ideaRoomX** and **ideaGatewayX** are specialized platforms designed for managing content on IEI e-paper devices.

**ideaRoomX:** Manages content for IEI e-paper devices.

- Handles device lists, templates, and field objects.
- Automates image generation.
- Supports API control.
- Notifies iRM to send content to e-paper devices once the image is created.

**ideaGatewayX:** Translation gateway for e-paper devices.

- Converts source data into a compatible format for the devices.

## 1.2 Browser Support

**ideaRoomX** supports most modern web browsers. For the best user experience, we recommend using the latest version of **Google Chrome**. **ideaRoomX** also supports the latest versions of:

- Microsoft Edge
- Firefox

## 1.3 Requirements for Installing ideaRoomX & ideaGatewayX

**Operating System:**

- QTS 5.0.0 or later (except QTS Hero)

**Software:**

- Container Station
- IRM

**Recommended Hardware:**

- TS-i410X-8G2H

\*The order of software installation must be: Container Station → IRM → ideaRoomX → ideaGatewayX.

## 1.4 Installing Container Station and IRM

### Step 1: Get Started with Container Station

- Open **QNAP App Center**, search for **Container Station**, and click **+ Install** to begin the setup.
- Follow the simple installation wizard, choose a folder for images and containers, and hit **Start Now** to get up and running.

### Step 2: Install IRMAgentPack

- In **App Center**, search for **iRMAgentPack** and click **+ Install** to enable seamless integration.

### Step 3: Set Up IRM

- Search for **iRM** in **App Center** and click **+ Install** to complete the foundation for your system.

### Step 4: Add ideaRoomX

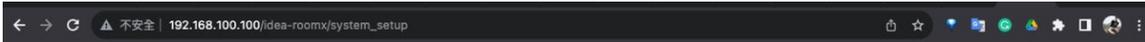
- Find **ideaRoomX** in **App Center** and click **+ Install** to unlock full content management capabilities.

### Step 5: Install ideaGatewayX

- Search for **ideaGatewayX** in **App Center**, click **+ Install**, and connect your system for automatic data translation.

### Step 6: Create Your Administrator Account

- Set up your unique login credentials for **ideaRoomX**, and you are all set to start managing your content effortlessly.



**Create an administrator**

User Name:

Password:

Confirm Password:

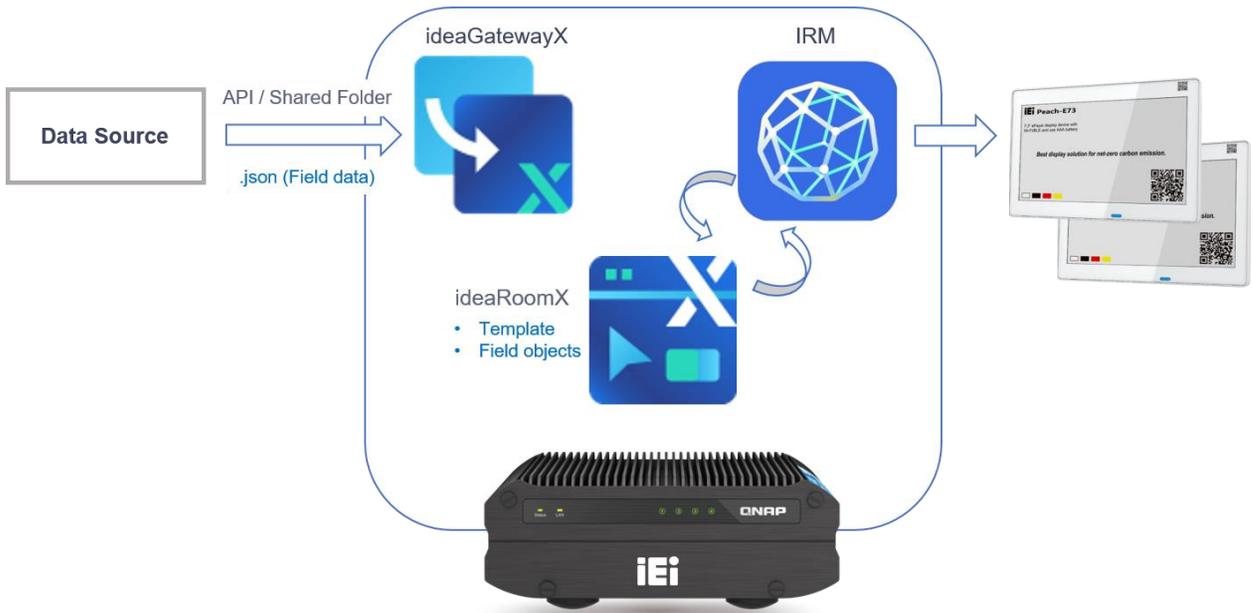
Passwords must have 8 to 32 characters and contain at least 1 uppercase letter, 1 lowercase letter and 1 number

Create



## 1.5 Getting Started

The following diagram gives you an overview about how the data are transferred to the e-paper device via **ideaGatewayX** and **ideaRoomX**.



Using the **ideaGatewayX** and the **ideaRoomX** to generate image that contains dynamic data for e-paper devices require the following main procedures.

### Step 1: Create field objects

- For scenarios requiring dynamic data from a source system, follow the guide in **Section 3.4 Field Object** to set up your field objects.

### Step 2: Design Your Template

- Build customized templates to suit your needs by following **Section 3.2 Create a Template**.

### Step 3: Assign Templates to Devices

- Apply your templates to a specific device or group template using the instructions in **Section 2.2 Assigning Templates to Devices or Groups**

### Step 4: Input Options for Field Data

You can input field data into your e-paper devices using two methods:

#### A. RESTful API

(1) **Deliver Data**: Use the RESTful API to send field data directly to the device by entering the data in the “Body” section and calling the **Content API**.

-Content | PUT {{BaseUrl}}/group/:gid/device/:id raw

---

**Headers**

Key	Value	Description
x-api-key	test-api-key	

---

**URL Variables**

Key	Value	Description
gid		Group ID
id		Device ID

---

**Body**

```

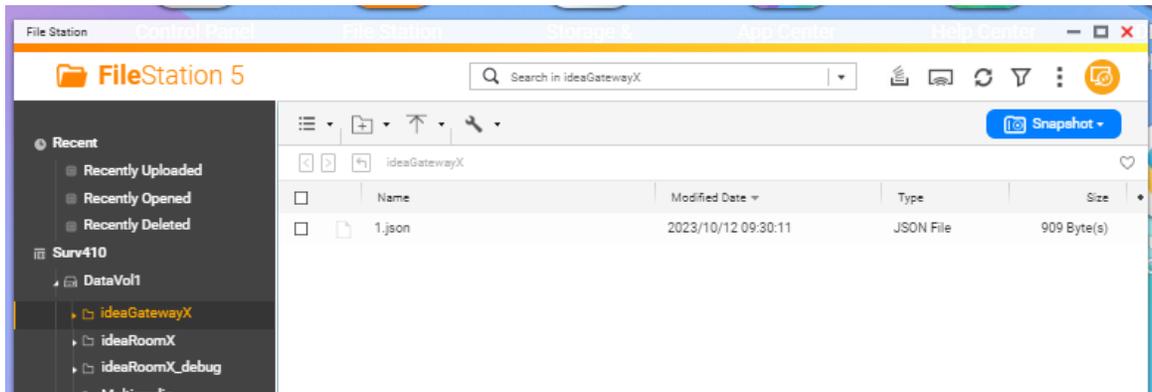
{
  "subject": {
    "display": "李孝",
    "age": 25
  },
  "participant": [
    {
      "individual": {
        "display": "鄭嘉宏"
      }
    },
    {
      "individual": {
        "display": "林和平"
      }
    }
  ],
  "diagnosis": [
    {
      "condition": {

```

(2) **Use Initial Template:** If creating a new template after uploading field data, clear the device data by calling the **Content API** with no data. The system will apply the initial template to generate the image.

## B. Shared JSON File

(1) **Third-Party JSON File:** Obtain a [Device ID].json file containing field data from a third-party source. The **Device ID** is available on the Devices page (see Section 2.1).



(2) **Save File:** Save the JSON file to the automatically created **ideaGatewayX shared folder** (accessible via My Network Places).

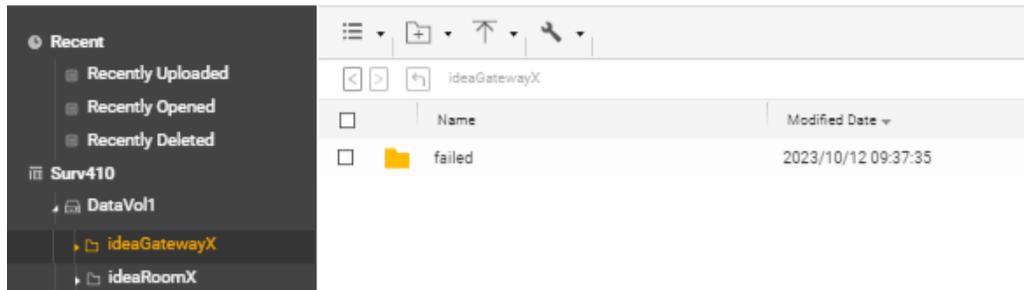
(3) **Template Behavior:**

- If the JSON file [Device ID].json is blank, the initial template will generate the image.
- If the JSON file contains data, **ideaGatewayX** will apply the auto-template to create an image based on the field objects and data.

---

**NOTE:**

- **Error Handling:** If the [Device ID].json file is in an incorrect format, **ideaGatewayX** will automatically save it to a folder named **failed**.
- **Execution Logs:** Errors from correctly formatted JSON files will be recorded in the log for easy troubleshooting.



**Step 5:** After generating an image, **ideaRoomX** instantly informs **IRM** with the image and device details. **IRM** then ensures swift and reliable delivery of the content to the specified e-paper device.

Chapter

**2**

# Devices

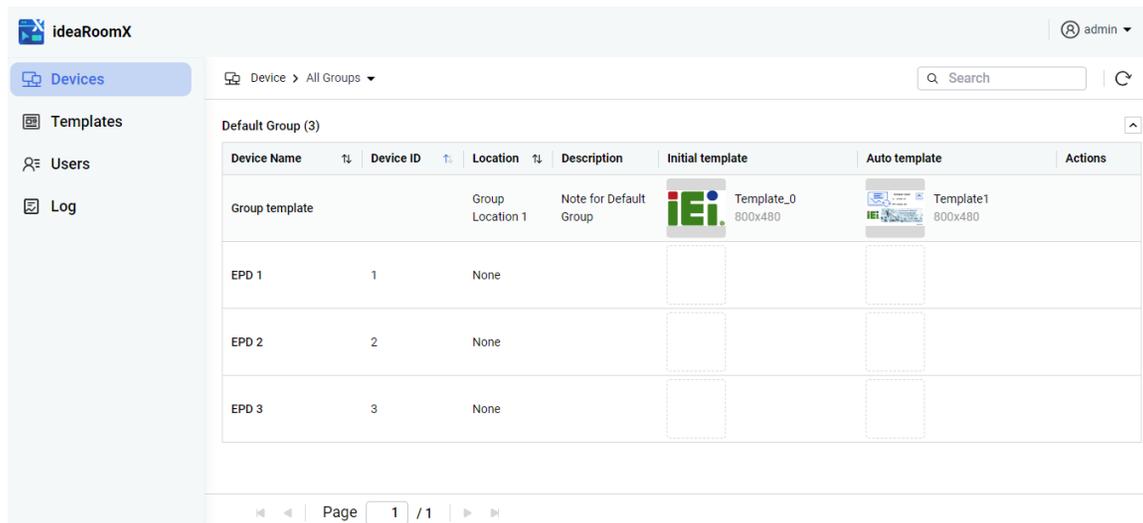
---

## 2.1 Devices Overview

The **Devices Page** provides a centralized view of all IEI e-paper devices and their basic information, synced seamlessly through **IRM**. All devices added to IRM will automatically appear here (refer to the IRM user manual for setup instructions).

Key Features:

- **Assign Templates:** Select and apply display templates designed in **ideaRoomX** to your e-paper devices (see Chapter 3 for template creation).
- **Preview Content:** Use the preview feature to visualize how your content will appear on the device before finalizing.



<b>Device Name / Device ID / Location / Description</b>	Information of the connected e-paper devices. Obtained from IRM
<b>Initial template</b>	The image template that contains <b>no</b> field object for the device to display.
<b>Auto template</b>	The image template that contains field objects for the device to display.
<b>Actions</b>	Edit  the template, or refresh  both of the initial template and the auto template
<b>Group template</b>	The templates set in the Group template will apply to all devices in the group except the device(s) bound with specific template.

## 2.2 Assigning Templates to Devices or Groups

With **ideaRoomX**, you can easily assign templates to device groups or individual devices, tailoring your e-paper content precisely to your needs.

---

### NOTE:

- **Group Templates:** All devices in a group share the same template by default.
  - **Custom Templates:** To customize a specific device, assign it a different template. This overrides the group template for that device, leaving the group template unaffected for other devices.
- 

### How to Assign a Template:

#### Step 1: Choose the Template Type:

- For templates with **field objects**, click the menu icon ( ⋮ ) in the “**Auto template**” column.
- For templates without **field objects**, click the menu icon ( ⋮ ) in the “**Initial template**” column.

#### Step 2: Click “**Select Template**”.

#### Assign a template to a device group:

The screenshot shows the 'ideaRoomX' interface. On the left is a sidebar with 'Devices', 'Templates', 'Users', and 'Log'. The main area shows a table for 'Default Group (3)'. The table has columns: Device Name, Device ID, Location, Description, Initial template, Auto template, and Actions. The 'Group template' row has a menu icon in the 'Initial template' column. The menu is open, showing 'Select Template' (highlighted with a red box) and 'Unbind Template'.

Device Name	Device ID	Location	Description	Initial template	Auto template	Actions
Group template		Group Location 1	Note for Default Group	[Menu Icon]		⋮
EPD 1	1	None				
EPD 2	2	None				

### Assign a template to a single device:

The screenshot shows the 'ideaRoomX' interface with a table of devices. The table has columns for Device Name, Device ID, Location, Description, Initial template, and Auto template. A red box highlights the 'Select Template' and 'Unbind Template' options in the Actions column for EPD 1.

Device Name	Device ID	Location	Description	Initial template	Auto template	Actions
Group template		Group Location 1	Note for Default Group	Template_0 800x480	Template1 800x480	
EPD 1	1	None				Select Template Unbind Template
EPD 2	2	None				

### Step 3: Select a template, and click **Apply**.

The screenshot shows the 'Select Template' dialog box. It contains a search bar, an 'Add Template' button, and three template options: Template1, Template2, and Template\_0. The 'Template\_0' option is selected and highlighted with a red box. The 'Apply' button is also highlighted with a red box.

### Step 4: To unbind the template from the group or device, click the menu icon and select "Unbind Template".

The screenshot shows the 'ideaRoomX' interface with the same table as in Step 1. A red box highlights the 'Unbind Template' option in the Actions column for EPD 1.

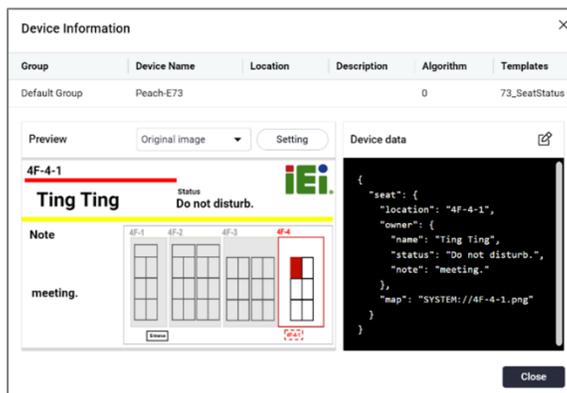
Device Name	Device ID	Location	Description	Initial template	Auto template	Actions
Group template		Group Location 1	Note for Default Group	Template_0 800x480	Template1 800x480	
EPD 1	1	None				Unbind Template

## 2.3 Preview and Edit

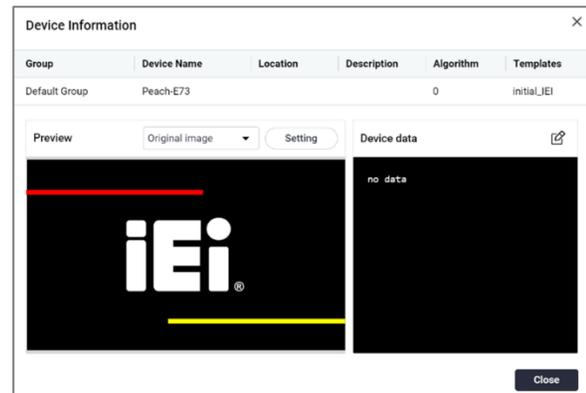
Once templates are assigned, you can refine and preview content with ease:

- **Preview Content:**
  - Click the **Edit icon** (  ) to preview how the content will appear on the e-paper device.
- **Edit JSON Data:**
  - Adjust content details by editing the JSON data in the device settings. Changes are reflected instantly for real-time updates.
- **Dynamic Template Previews:**
  - If field object data is available, the **auto template** will be displayed.
  - If no data is available, the **initial template** will be used for preview.

### Preview of auto template:



### Preview of initial template:



There are two preview options for you to select:

- **Original image:** display the original image
- **Processed image:** display the image that is processed by the dithering algorithm

Device Information



Group	Device Name	Location	Description	Algorithm	Templates
Default Group	Peach-E73			0	initial_IEI

Preview Original image Setting Device data

Original image  
Processed image



```
{  
  "seat": {  
    "location": "4F-4-1",  
    "owner": {  
      "name": "Ting Ting",  
      "status": "Do not disturb.",  
      "note": "meeting."  
    },  
    "map": "SYSTEM://4F-4-1.png"  
  }  
}
```

Close

Chapter

**3**

# Templates

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### 3.1 Templates Overview

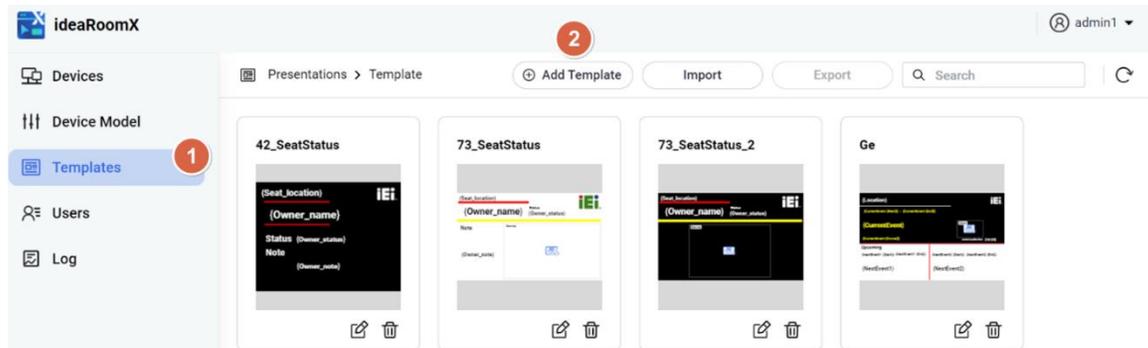
The **Templates Page** in **ideaRoomX** is your central hub for managing all your templates. Key features include:

1. **Add New Template:** Create and save new templates easily.
2. **Import/Export Templates:** Seamlessly import or export templates as needed.
3. **Edit/Delete:** Modify or remove existing templates with a few clicks.
4. **Search:** Quickly find templates by name using the search function.

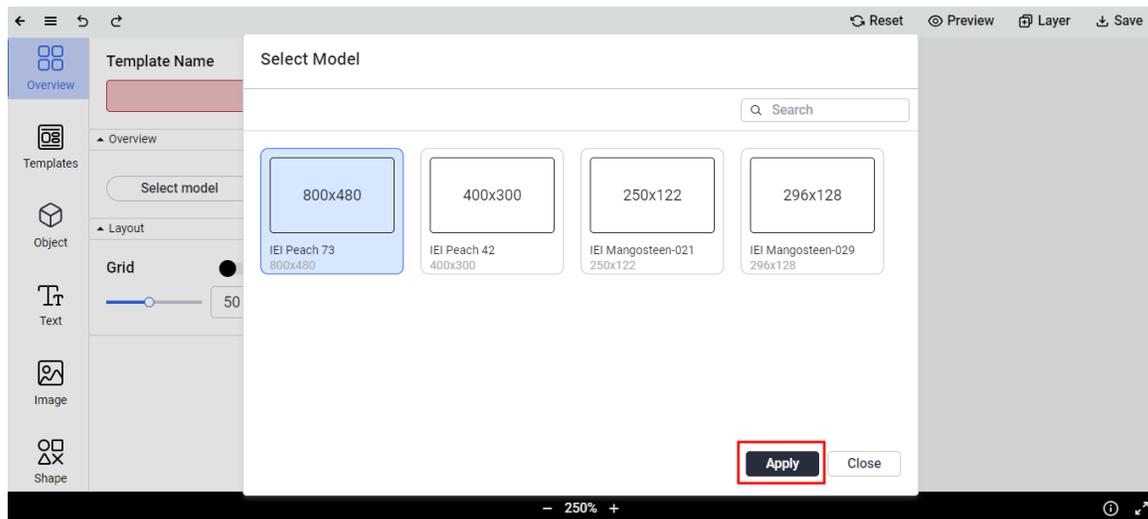
### 3.2 Create a Template

To create a new template, follow the steps below.

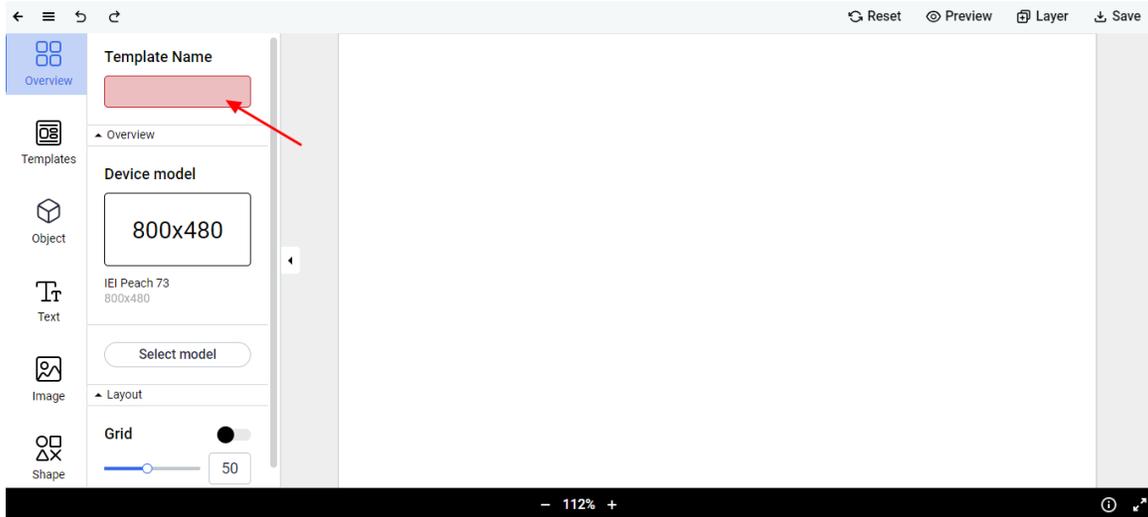
**Step 1:** Go to the **Templates** page and click the **"Add Template"** button.



**Step 2:** Select the EDP device model that this template is designed for. Click the **Apply** button to create.



**Step 3:** Name the template by typing in the Template Name field.



The user interface of the creating template page is shown below.



<b>1. Menu</b>	Show/Hide side menu bar
<b>2. Undo</b>	Undo an action
<b>3. Redo</b>	Redo an action
<b>4. Reset</b>	Revert to the last saved or opened design
<b>5. Preview</b>	Preview the content to be displayed

<b>6. Layer</b>	Show the layer window, in which each object on the canvas will be presented by layers. Users can show, hide and lock each individual layer. The order of the layers can also be adjusted by drag-and-drop or using the order adjusting buttons.
<b>7. Save</b>	Save the template
<b>8. Zoom in/out</b>	Click + to zoom in the canvas; click – to zoom out the canvas
<b>9. Keyboard shortcut info</b>	Mouse over to show keyboard shortcuts
<b>10. Fit</b>	Click to stretch or shrink the canvas to fit the working area

### 3.3 Apply an Existing Template

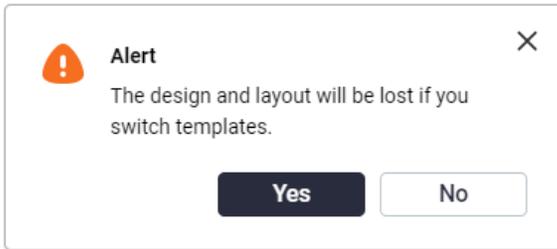
After creating a template, users can apply the design from the existing template. To do so, following the steps below.

**Step 1:** Click **Templates** on the side menu bar of the Template sub-page.

**Step 2:** Select a template from the list, or click + to create a new one.



**Step 3:** An alert message will appear to notify you the design will be lost if you switch template. Click **Yes** to apply the template.



### 3.4 Field Object

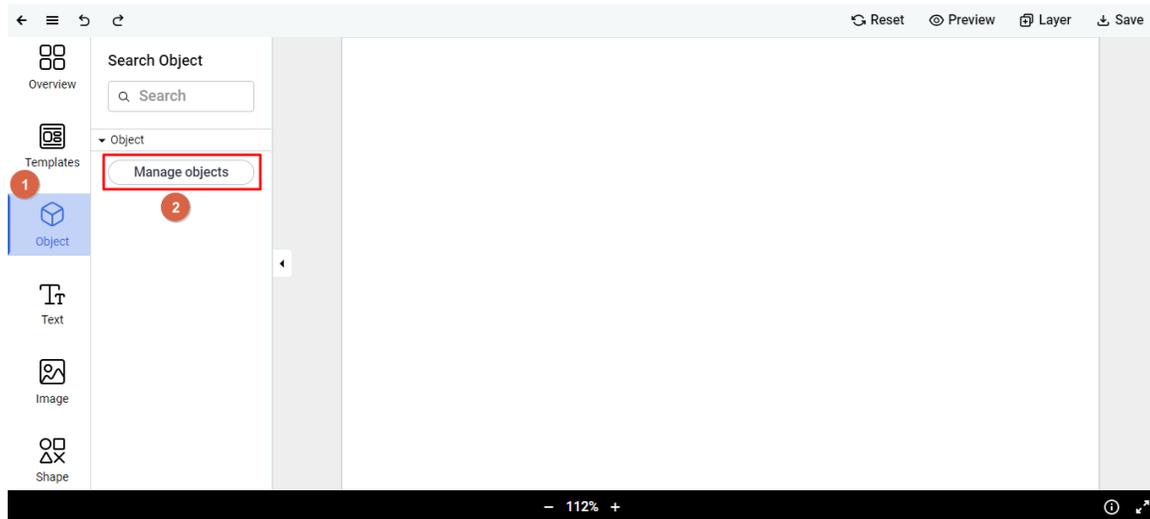
A field object contains dynamic data received from the source system. The **ideaGatewayX** translates the data (.json file) for the **ideaRoomX** to generate an image for display. A .json file is a necessity before start using this function.

#### 3.4.1 Creating Field Object

Before adding field objects to a template, you'll need to create them. Follow the steps below.

**Step 1:** Click **Object** on the side menu bar.

**Step 2:** Click the **Manage objects** button.



**Step 3:** In the **Manage Objects** pop-up screen, you can create field objects by using two methods:

**1. Manual Input:**

- Enter the properties of each field object individually. (see **Section 3.4.1.1** for details)

**2. Import from Excel:**

- Upload an Excel file containing the field object properties. (see **Section 3.4.1.2** for details)

**Step 4:** Close the **Manage Objects** window. You should see a list of field objects you created.

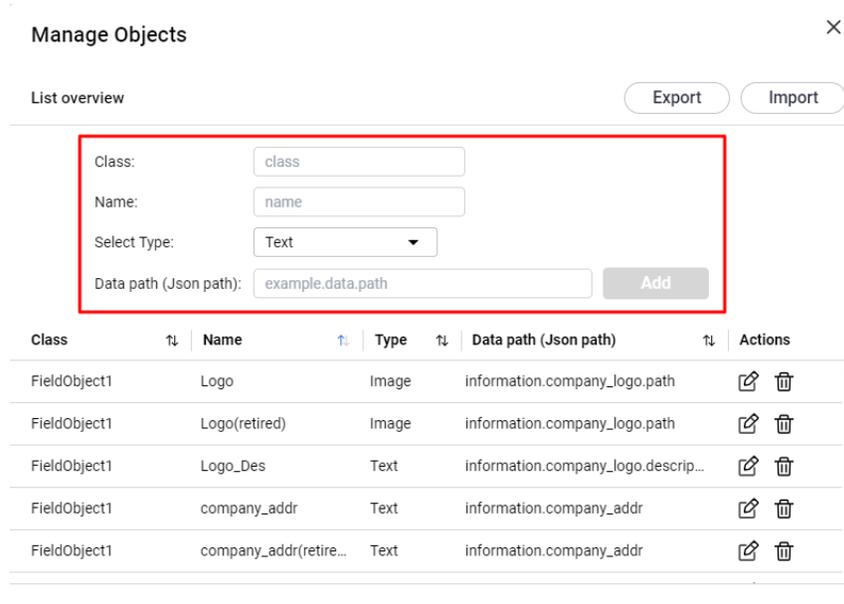
### 3.4.1.1 Input Manually

**Step 1:** Enter the following properties of the field object to be created.

- (1) **Class:** define a category for this object. The field objects with the same class name will be listed together under that class name in the ideaRoomX.
- (2) **Name:** give a name for this field object
- (3) **Select Type:** select a type for this field object; options include: text, image, number.
- (4) **Data path:** the data path in .json; the path to get data from the source system

**Step 2:** Click the **Add** button. The field object will be added in the list.

**Step 3:** Continue to enter the properties of another field object, and add it into the list.



The screenshot shows the 'Manage Objects' window with a 'List overview' section. A form is highlighted with a red border, containing the following fields:

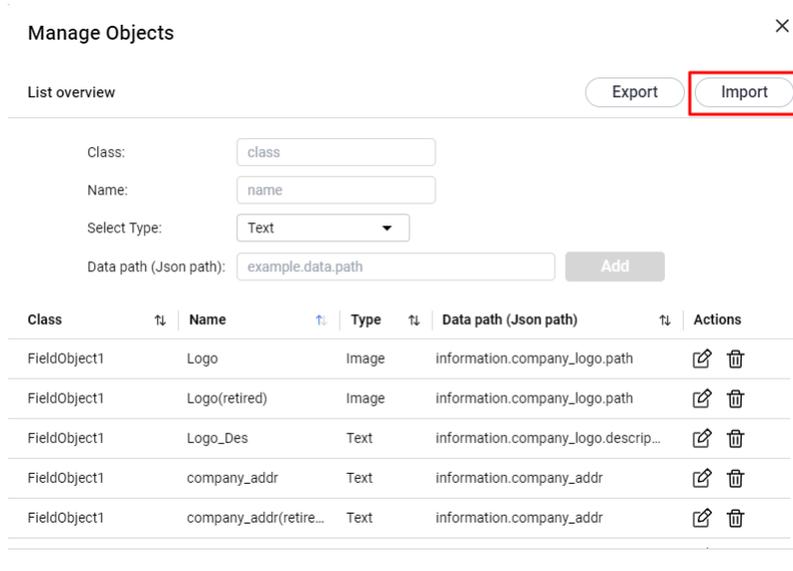
- Class:
- Name:
- Select Type:
- Data path (Json path):

Below the form is a table with the following columns: Class, Name, Type, Data path (Json path), and Actions.

Class	Name	Type	Data path (Json path)	Actions
FieldObject1	Logo	Image	information.company_logo.path	
FieldObject1	Logo(retired)	Image	information.company_logo.path	
FieldObject1	Logo_Des	Text	information.company_logo.descrip...	
FieldObject1	company_addr	Text	information.company_addr	
FieldObject1	company_addr(retire...	Text	information.company_addr	

### 3.4.1.2 Import from Excel

**Step 1:** In the Manage Objects window, click the **Import** button.



**Step 2:** Select an excel file that contains properties of field objects. Click **Open**. The following diagram shows an example of the excel file, containing field object property.

	A	B	C	D	E	F
1		KEY	TYPE	CLASS	DISPLAY_NAME	PATH
2	Logo-1692669308572	image	FieldObject1	Logo	information.company_logo.path	
3	Logo-1692580331382	image	FieldObject1	Logo(retired)	information.company_logo.path	
4	Logo_Des-1692668806621	text	FieldObject1	Logo_Des	information.company_logo.description	
5	company_addr-1692670437354	text	FieldObject1	company_addr	information.company_addr	
6	company_addr-1692580440147	text	FieldObject1	company_addr(retired)	information.company_addr	
7	company_name-1692580403099	text	FieldObject1	company_name	information.company_name	
8	company_tel-1692580482012	text	FieldObject1	company_tel	information.company_tel	
9	company_uriQR-1692581476156	image	FieldObject1	company_uriQR	information.company_uriQR.path	
10	product_name-1694154301068	text	FieldObject2	product_name	information.product_name	

**Step 3:** The properties of the field objects will be automatically imported.

### 3.4.2 Using Field Object

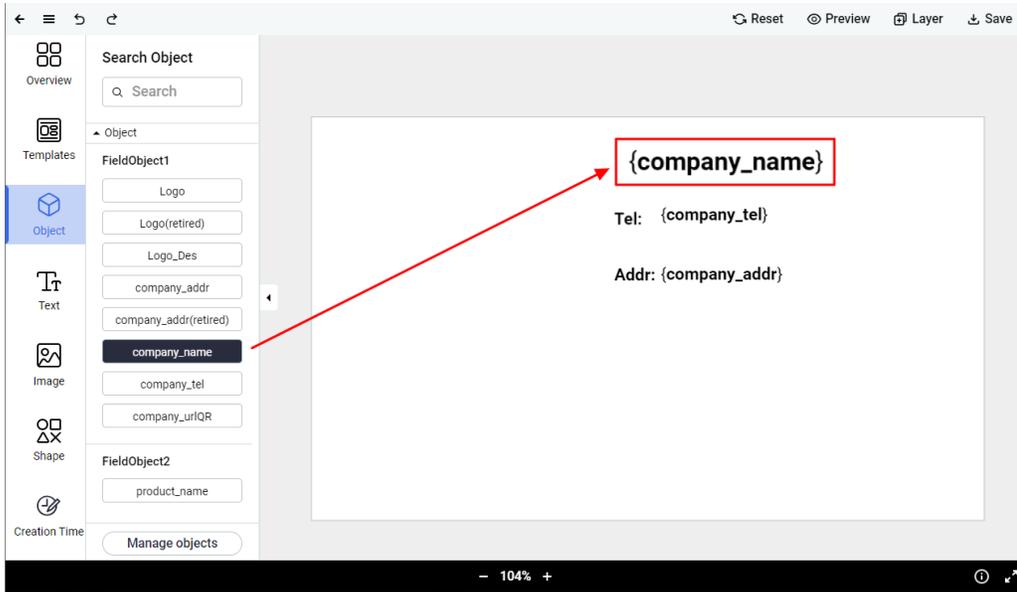
After creating field objects, follow the steps below to add a field object to the canvas.

**Step 1: Select an Object:** From the field object list, click on a desired object. It will be added to the canvas.

**Canvas Display:**

- **Text and Number Types:** Displayed as the field object name enclosed in braces, e.g., {FieldName}.
- **Image Type:** A placeholder image with the field object name in the upper-left corner.

**NOTE:** On the e-paper device, the canvas display will be replaced with real data from the source

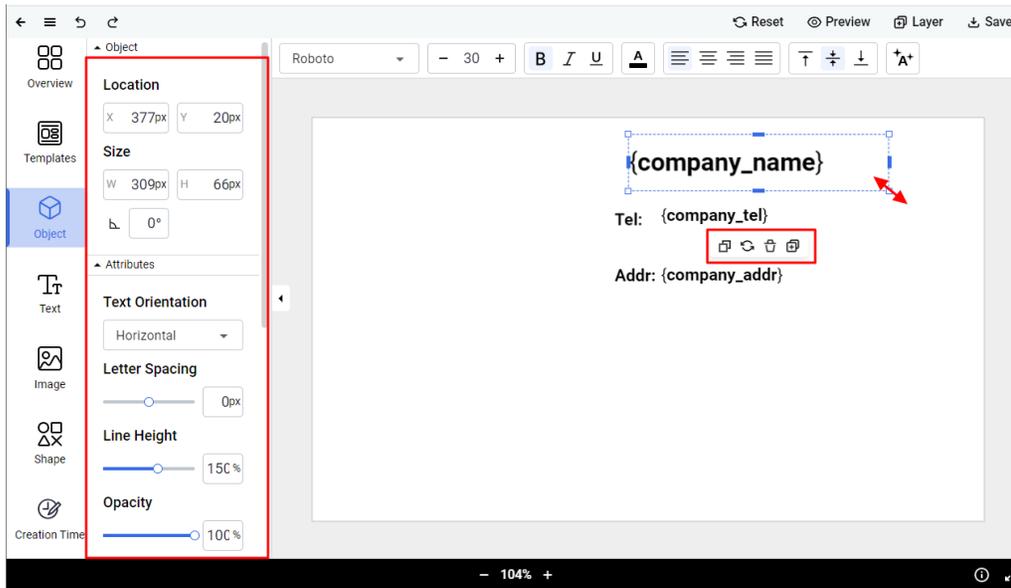


**NOTE:** In order to display the image correctly, the .json file should contain the URL of the image.

```
{
  "information": {
    "company_logo": {
      "path": "https://i.imgur.com/A3fUDph.jpg"
    },
    "company_name": "IEI Integration Corp.",
    "company_addr": "No. 29, ZhongXing Rd, Xizhi Dist., New Taipei City 221",
    "company_tel": "+886-2-8691-6798",
    "company_ur1QR": {
      "path": "https://i.imgur.com/r3oEDgo.png"
    }
  }
}
```



**Step 2:** With the object box selected, drag it to resize it, or use the object toolbars to adjust it.



**NOTE:**

A mini tool bar appears when an object on the canvas is selected. The function of each icon is described below.



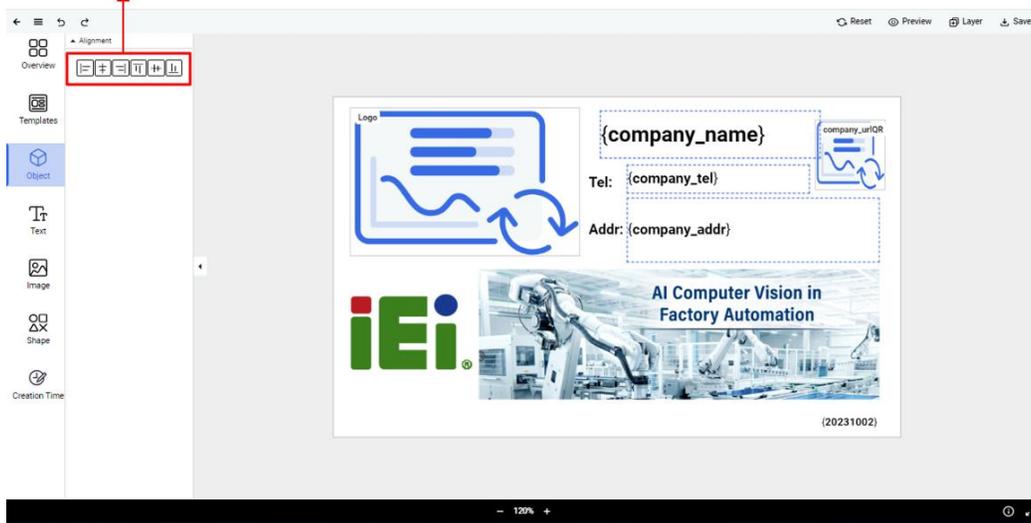
1. Duplicate the object
2. Rotate the object
3. Delete the object
4. Change the order of the object

**NOTE:**

Follow these steps to align two or more objects on the canvas:

- 1. Select Objects:** Hold down the "Shift" key and click on the objects you want to align.
- 2. Use Alignment Toolbar:** The alignment toolbar will appear with various icons. Click the appropriate icon to adjust the objects' positions as needed.

**Alignment Tool Bar**



## 3.5 Static Object - Text / Image / Shape

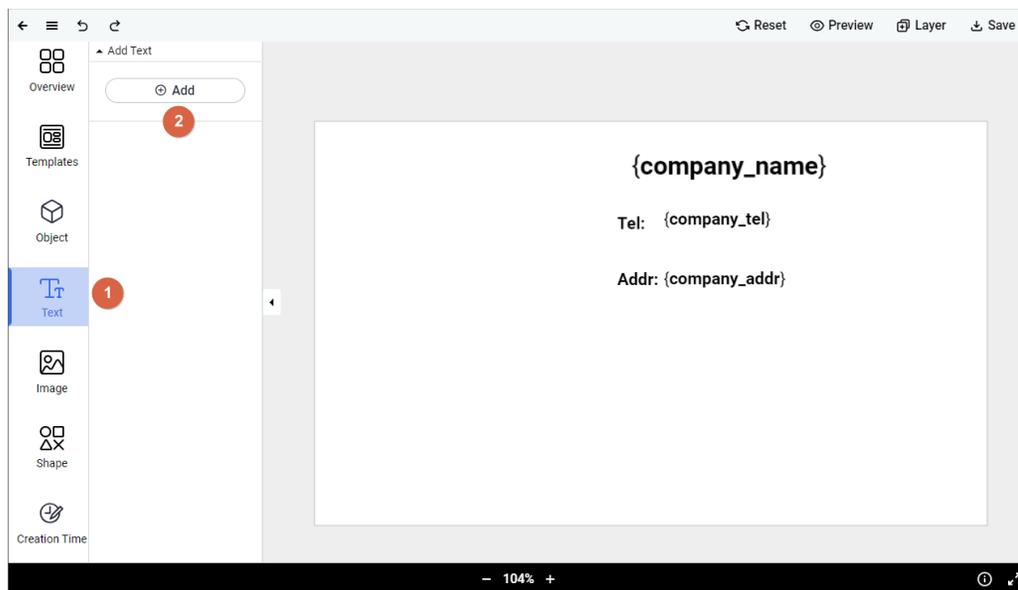
User can add static objects onto the canvas, including text, images and shapes. The following sections provide instruction on how to add these static objects.

### 3.5.1 Adding Text

To add text, follow the steps described below:

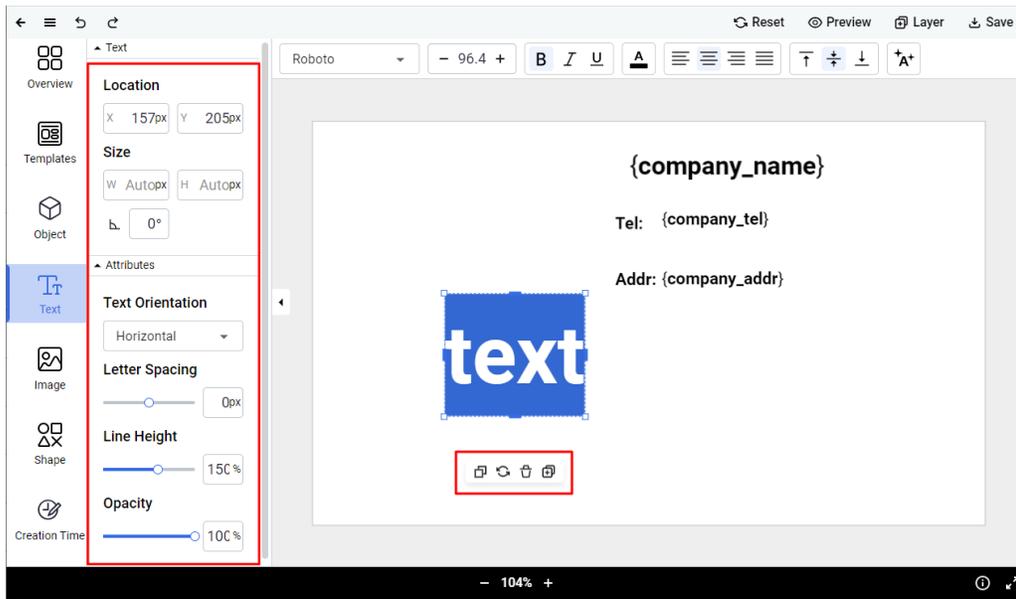
**Step 1:** Click **Text** on the side menu bar.

**Step 2:** Click the **Add** button.



**Step 3:** A text box is added onto the canvas. With the text box selected, the text toolbars will be shown for users to adjust text attributes.

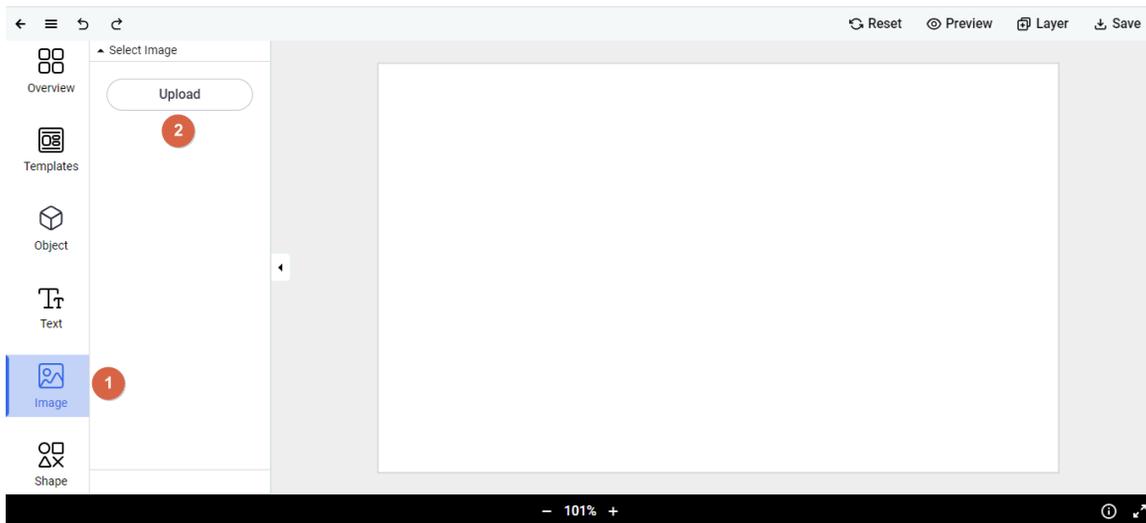
**Step 4:** Double-click the text box to enter the text. Adjust text attributes to the way you need by using the commands provided on the toolbars.



### 3.5.2 Adding Image

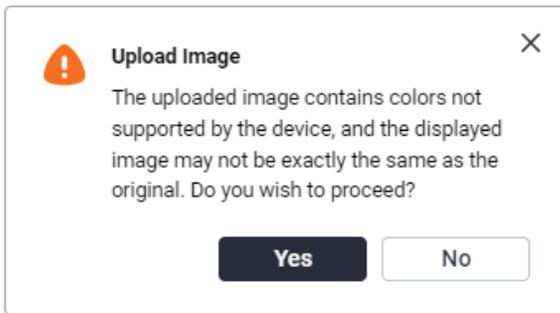
To add an image, follow the steps described below:

**Step 1:** Click **Image** on the side menu bar. Click the **Upload** button.



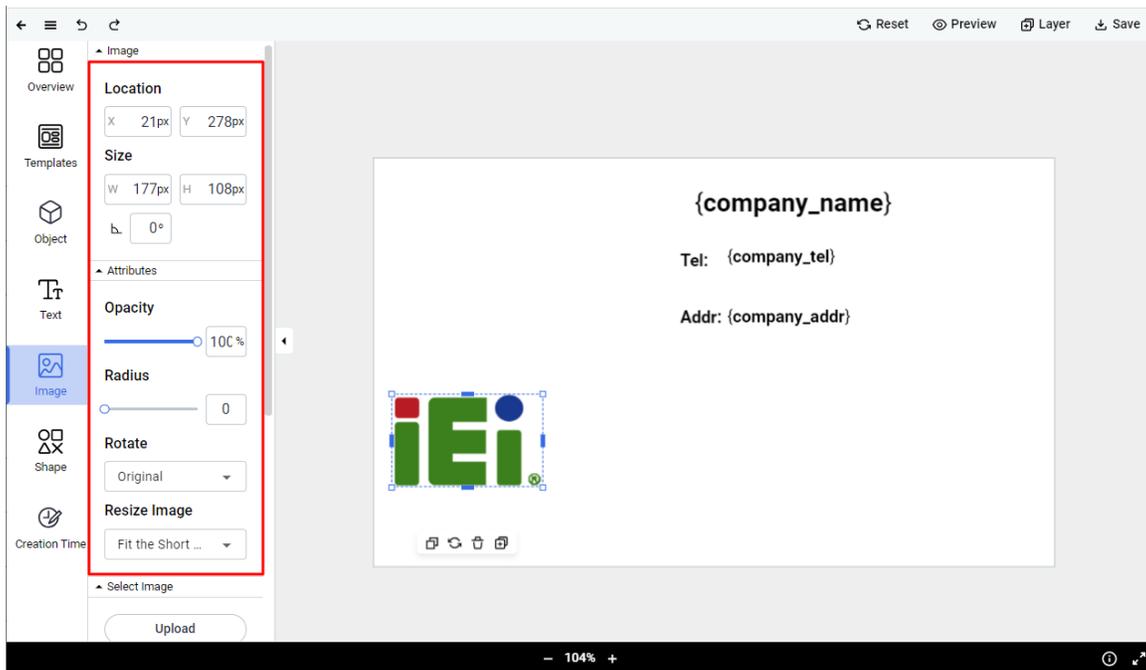
**Step 2:** From the pop-up “Open” window, select an image file to load.

**Step 3:** The following warning message appears. Click **Yes** to continue.



**Step 4:** The selected image is added onto the canvas. With the image selected, the image toolbar will be shown for users to adjust image attributes. Adjust image attributes to the way you need by using the commands provided on the toolbars.

**NOTE:** “Radius” tool allows you to adjust corners’ radius of the selected image. Use it to round the corners of an image with color background.

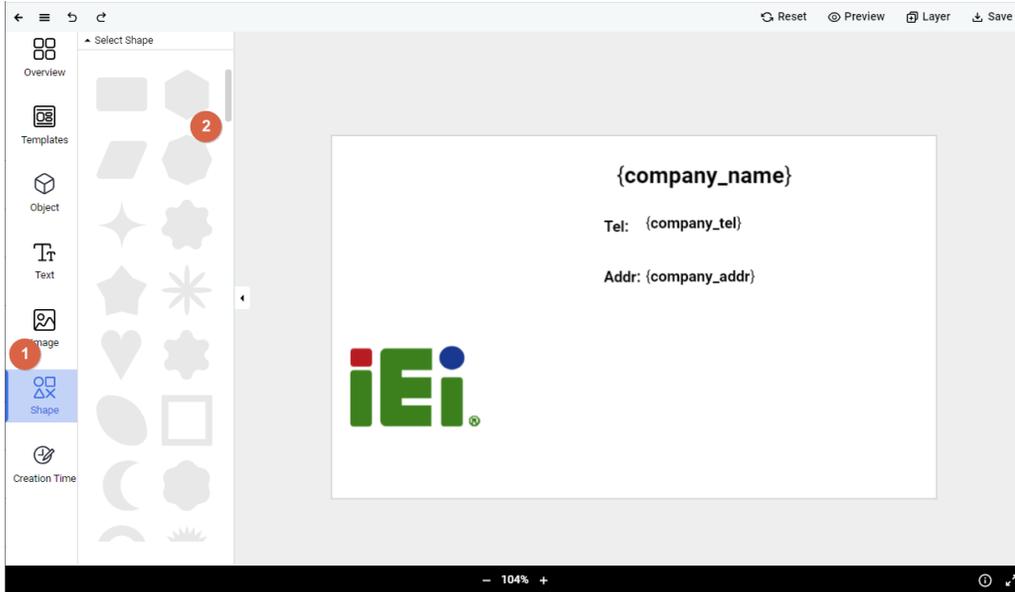


### 3.5.3 Adding Shape

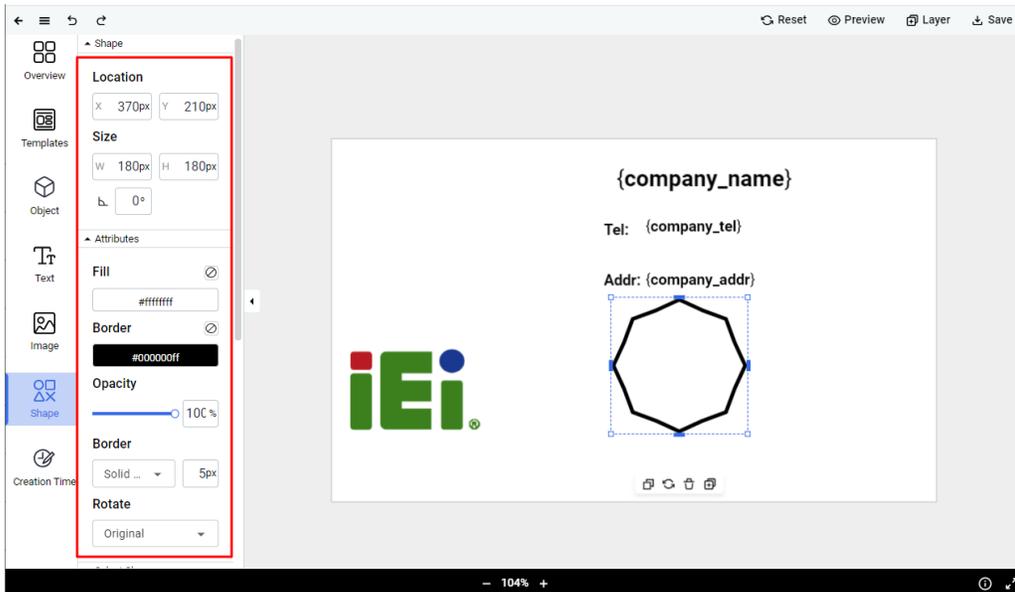
To add a shape object, follow the steps described below:

**Step 1:** Click **Shape** on the side menu bar.

**Step 2:** From the shape list, click a shape to add it onto the canvas.



**Step 3:** With the shape object selected, the shape toolbar will be shown for users to adjust shape attributes, such as fill/border color, opacity or border style/width.

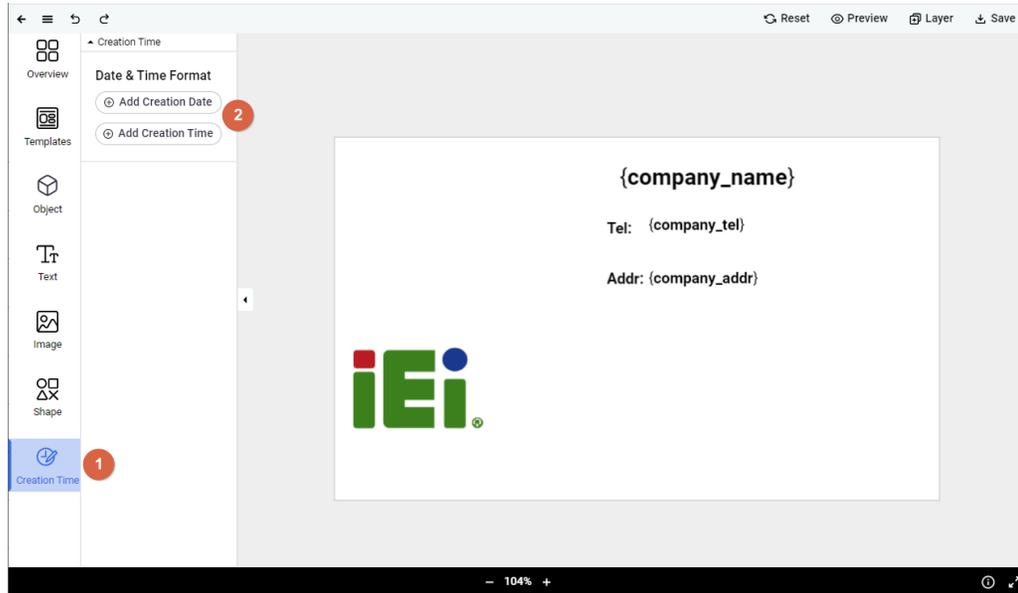


### 3.6 Date & Time

Real-time date and time information can be included in a template. Setup steps are described below:

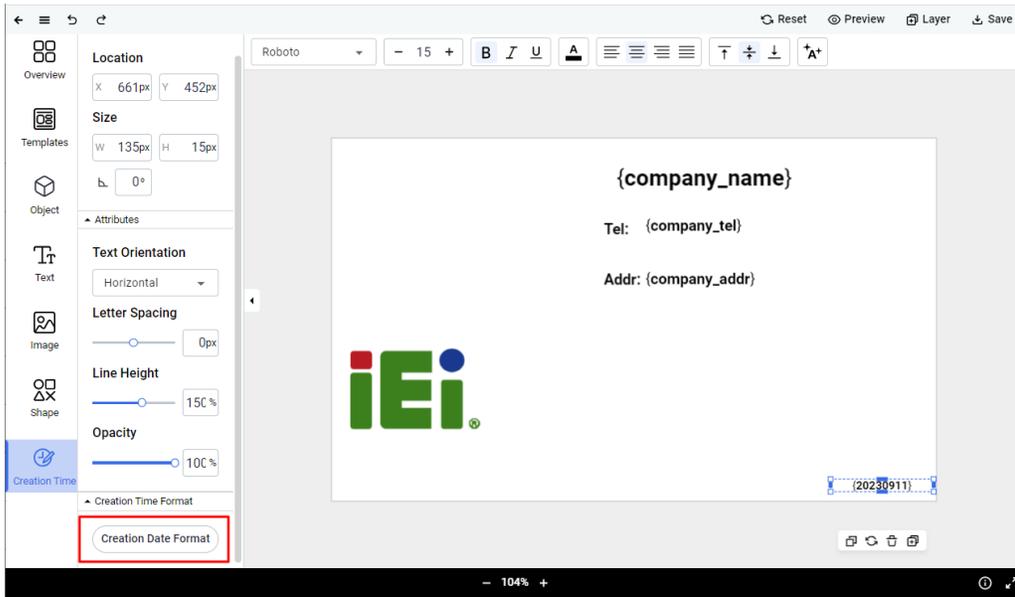
**Step 1:** Click **Creation Time** on the side menu bar.

**Step 2:** Click "Add Creation Date" or "Add Creation Time" to add date or time onto the canvas.



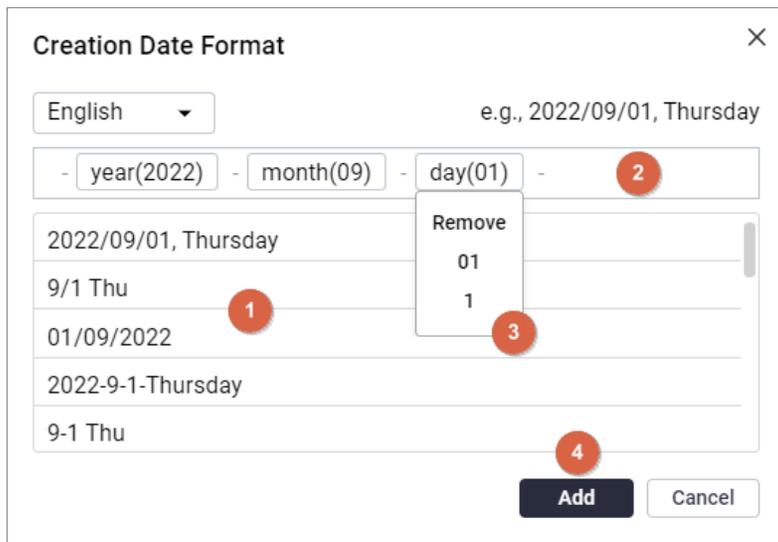
**Step 3:** With the date/time object selected, the date/time toolbar will be shown for users to adjust attributes.

**Step 4:** To change the date/time format, click **Creation Date Format** or **Creation Time Format**.



**Step 5:** The following window appears, allowing you to adjust language and format.

- (1) Select a format from the list
- (2) Drag and drop the block to adjust the order
- (3) Click the block to choose text format
- (4) Click **Add** to save the setting



Chapter

**4**

# **Users**

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## 4.1 Users Overview

The Users page contains the system user account and permissions management.

## 4.2 Add User

**Step 1:** Select "Users" from the menu, and click the "Add User" button.

User	Email	Status
admin		Active
cms		Active
irm		Active

**Step 2:** Enter the username and email address of the user to be added. Enter the password you use to login the **ideaRoomX**. Click **Next**.

Add User
✕

⚙️ User Settings

- 👤 User Info
- 🔑 Permissions

User Name:

Email:

Password:  
 👁️

Passwords must have 8 to 32 characters and contain at least 1 uppercase letter, 1 lowercase letter and 1 number

Confirm Password:  
 👁️

**Step 3:** Select the permissions that you want to add, click **Apply** to finish.

The screenshot shows a dialog box titled "Add User" with a close button (X) in the top right corner. Below the title bar is a "User Settings" section with a gear icon. On the left, there are two tabs: "User Info" and "Permissions". The "Permissions" tab is selected. The main area contains a list of permissions, each with an unchecked checkbox:

- Select all
- Device Management
- Device Model Management
- Template Management
- User Management
- Log Management
- System Setting Management
- Object Management

At the bottom right of the dialog box, there are two buttons: "Apply" (highlighted in dark grey) and "Back" (light grey).

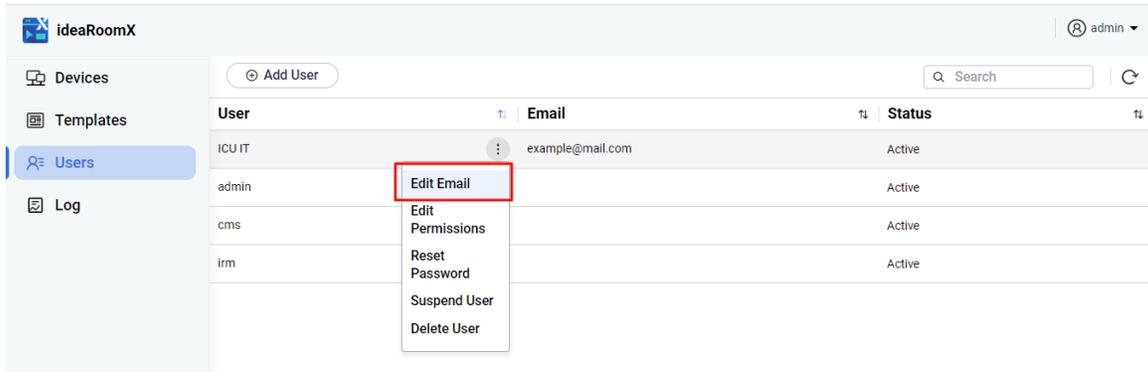
## 4.3 User Management

ideaRoomX provides the user management functions for editing user email, permissions, password or suspending/deleting users.

### 4.3.1 Edit Email

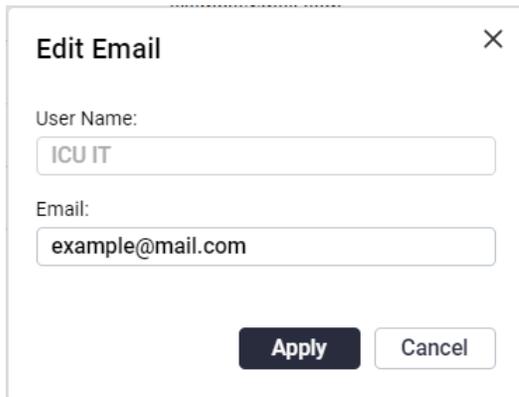
To change a user's email address, follow the steps below:

**Step 1:** Click the menu icon  beside the user name, and select **Edit Email**.



User	Email	Status
ICU IT	example@mail.com	Active
admin		Active
cms		Active
irm		Active

**Step 2:** In the pop-up window, modify the email address and click **Apply** to save the change.



**Edit Email** ✕

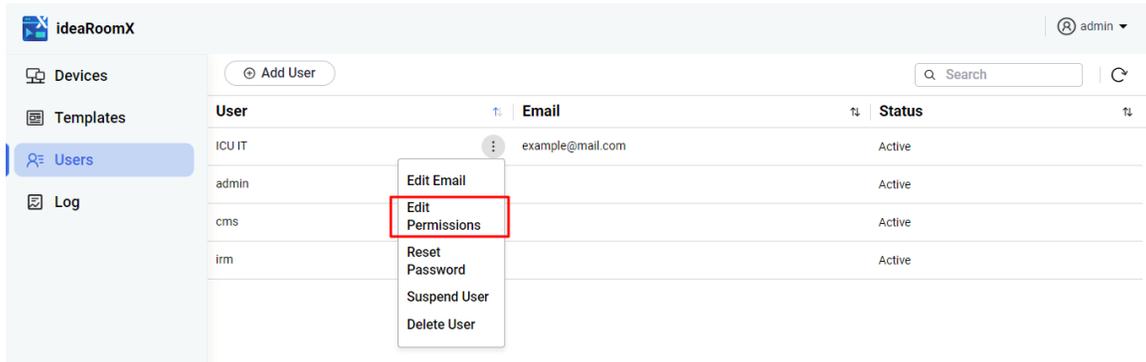
User Name:

Email:

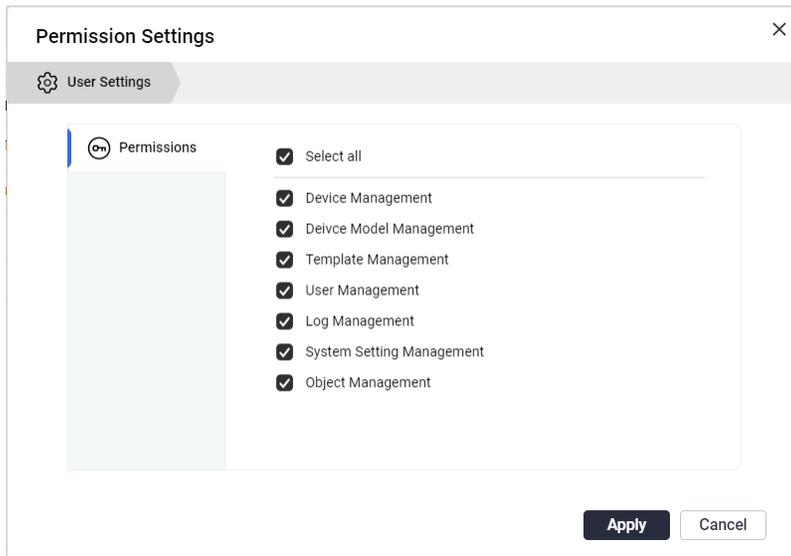
### 4.3.2 Edit Permissions

To edit a user's permission, follow the steps below:

**Step 1:** Click the menu icon  beside the user name, and select **Edit Permissions**.



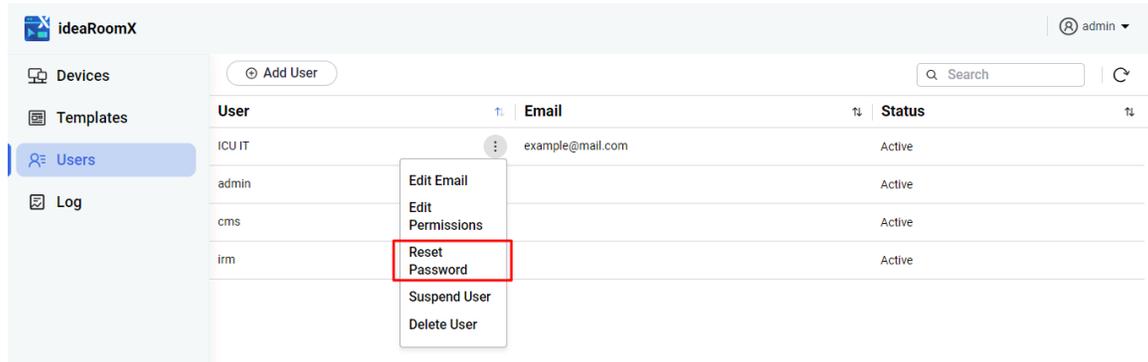
**Step 2:** In the pop-up window, select/deselect permissions, and click **Apply** to save the change.



### 4.3.3 Reset Password

To reset a user's password, follow the steps below:

**Step 1:** Click the menu icon  beside the user name, and select **Reset Password**.



**Step 3:** In the pop-up window, enter the new password twice. The password must have 8 to 32 characters and contain at least 1 uppercase letter, 1 lowercase letter and 1 number.

**Step 4:** Click **Apply** to save the password and exit.

**Reset Password** ✕

example@mail.com

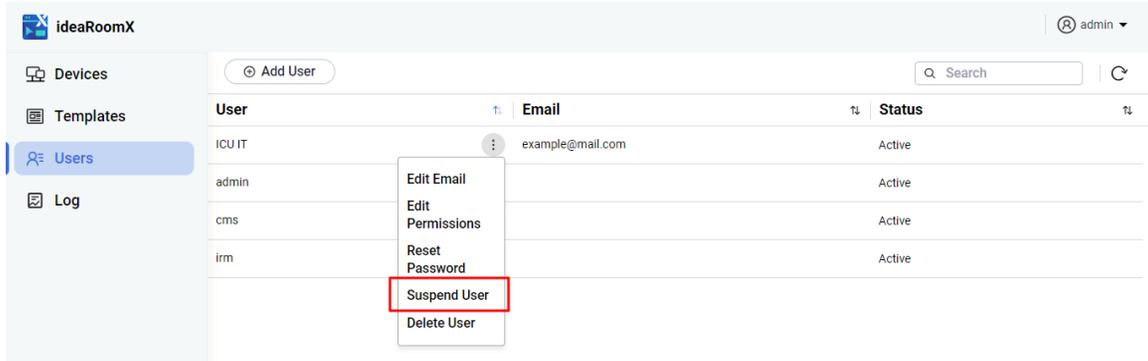
Password:

Confirm Password:

Passwords must have 8 to 32 characters and contain at least 1 uppercase letter, 1 lowercase letter and 1 number

### 4.3.4 Suspend User

Click the menu icon  beside the user name, and select **Suspend User**.



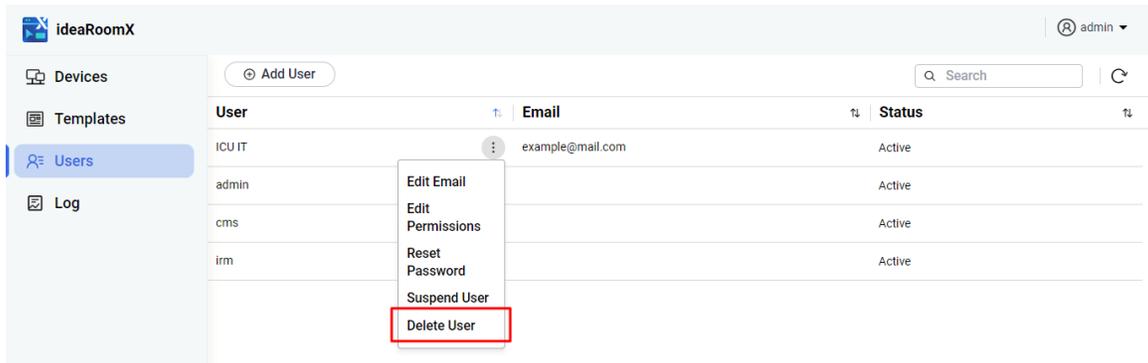
The screenshot shows the 'ideaRoomX' user management interface. On the left is a sidebar with 'Users' selected. The main area contains a table with columns 'User', 'Email', and 'Status'. A dropdown menu is open for the 'admin' user, with 'Suspend User' highlighted by a red box.

User	Email	Status
ICU IT	example@mail.com	Active
admin		Active
cms		Active
irm		Active

- Edit Email
- Edit Permissions
- Reset Password
- Suspend User**
- Delete User

### 4.3.5 Delete User

Click the menu icon  beside the user name, and select **Delete User**.



The screenshot shows the 'ideaRoomX' user management interface. On the left is a sidebar with 'Users' selected. The main area contains a table with columns 'User', 'Email', and 'Status'. A dropdown menu is open for the 'admin' user, with 'Delete User' highlighted by a red box.

User	Email	Status
ICU IT	example@mail.com	Active
admin		Active
cms		Active
irm		Active

- Edit Email
- Edit Permissions
- Reset Password
- Suspend User
- Delete User**

Chapter

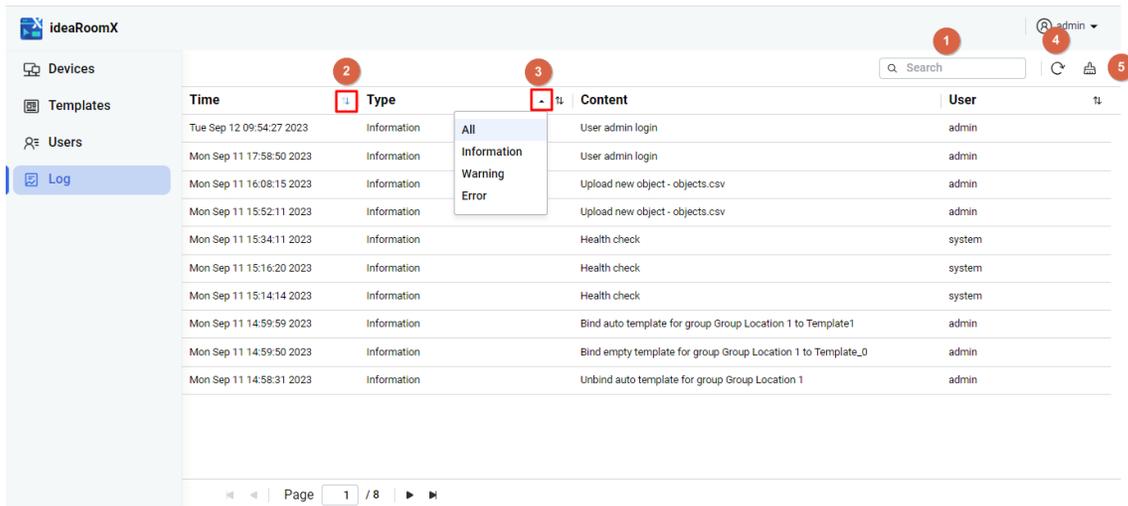
**5**

**Log**

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## 5.1 Log Page Features

ideaRoomX provides three types of logs: information log, warning log, and error log. Once an event occurs, you will be able to view the results in the Log page.



Time	Type	Content	User
Tue Sep 12 09:54:27 2023	Information	User admin login	admin
Mon Sep 11 17:58:50 2023	Information	User admin login	admin
Mon Sep 11 16:08:15 2023	Information	Upload new object - objects.csv	admin
Mon Sep 11 15:52:11 2023	Information	Upload new object - objects.csv	admin
Mon Sep 11 15:34:11 2023	Information	Health check	system
Mon Sep 11 15:16:20 2023	Information	Health check	system
Mon Sep 11 15:14:14 2023	Information	Health check	system
Mon Sep 11 14:59:59 2023	Information	Bind auto template for group Group Location 1 to Template1	admin
Mon Sep 11 14:59:50 2023	Information	Bind empty template for group Group Location 1 to Template_0	admin
Mon Sep 11 14:58:31 2023	Information	Unbind auto template for group Group Location 1	admin

The Log page has the following features:

- 1. Search:** Type a keyword in the "Search" field to search for logs.
- 2. Sort order:** Click the sort order button in the Time, Type and User columns to sort the log in a descending/ascending order
- 3. Filter by type:** Click the upper arrow in the "Type" cell. Select a log type from the drop down list to filter the logs.
- 4. Refresh:** Click the "Refresh" button at any time to get the latest log message.
- 5. Clear logs:** Click the "Clear Logs" button to clear all of the logs.