



Indoor web application

คู่มือการใช้งาน

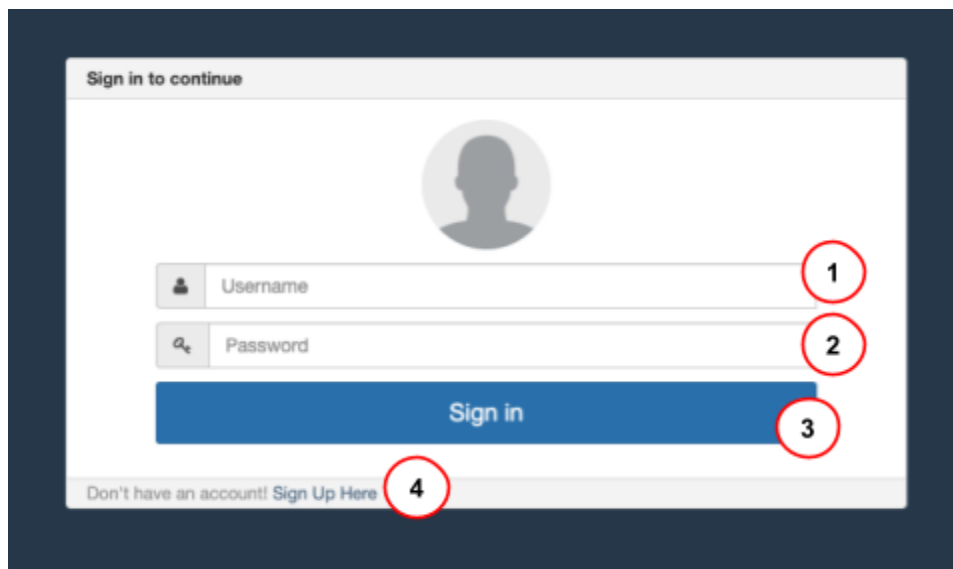


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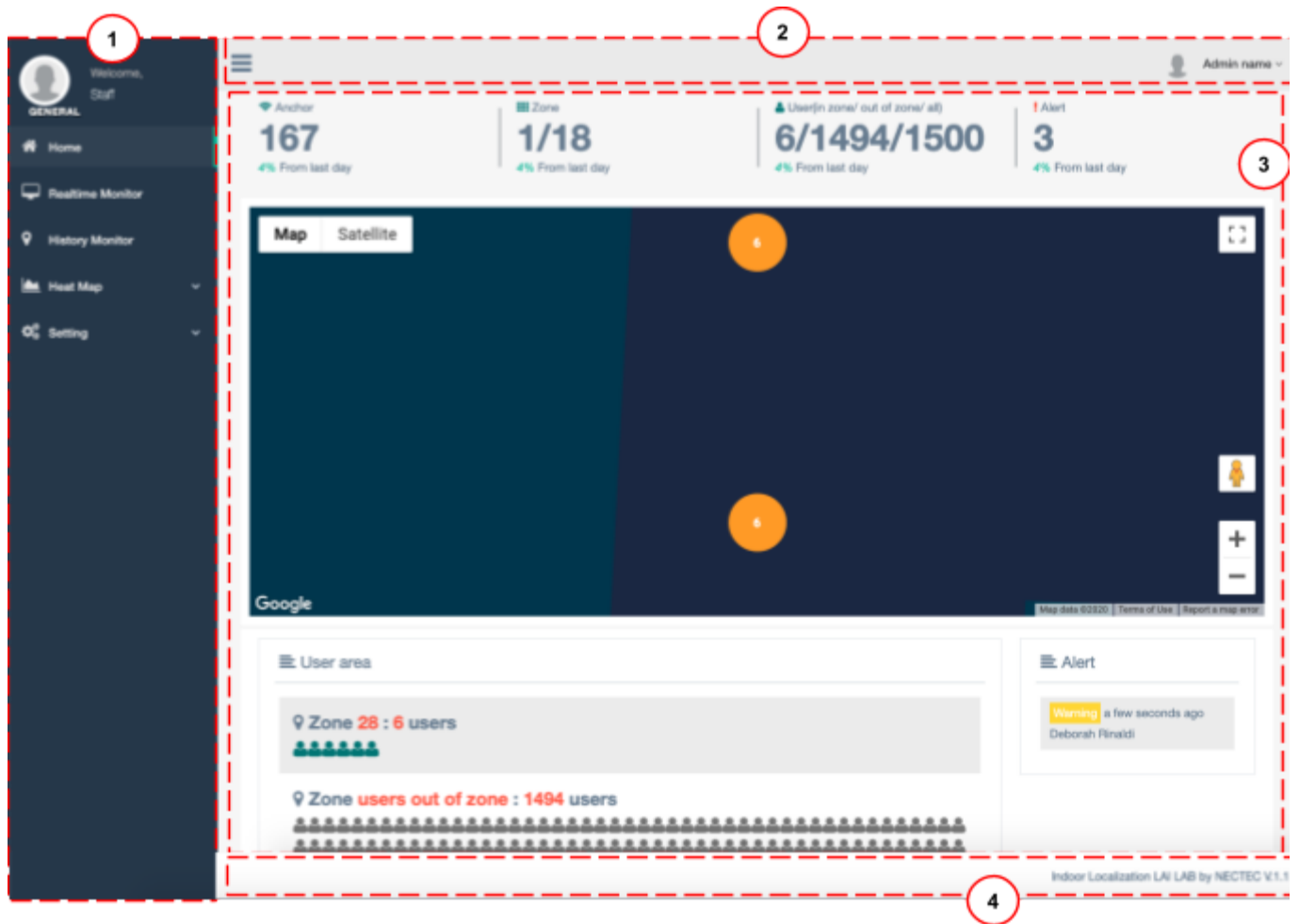
1. การเข้าสู่ระบบ



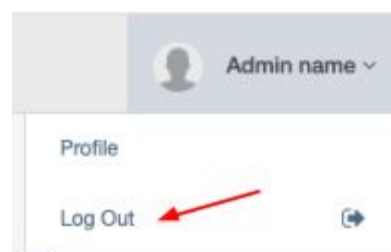
The image shows a sign-in form titled "Sign in to continue". It features a user profile icon at the top. Below the icon are two input fields: "Username" (labeled 1) and "Password" (labeled 2). A blue "Sign in" button is located below the password field (labeled 3). At the bottom of the form, there is a link that says "Don't have an account! Sign Up Here" (labeled 4).

1. Username : ชื่อผู้ใช้งาน (หากยังไม่มีกรุณาติดต่อ cnwrg-lai@nectec.or.th)
 2. Password : รหัสผ่าน (หากยังไม่มีกรุณาติดต่อ cnwrg-lai@nectec.or.th)
 3. Sign in : ปุ่มเข้าสู่ระบบ
 4. Sign Up Here : ยังไม่เปิดใช้งาน
-

2. เมนูและหน้าการใช้งาน

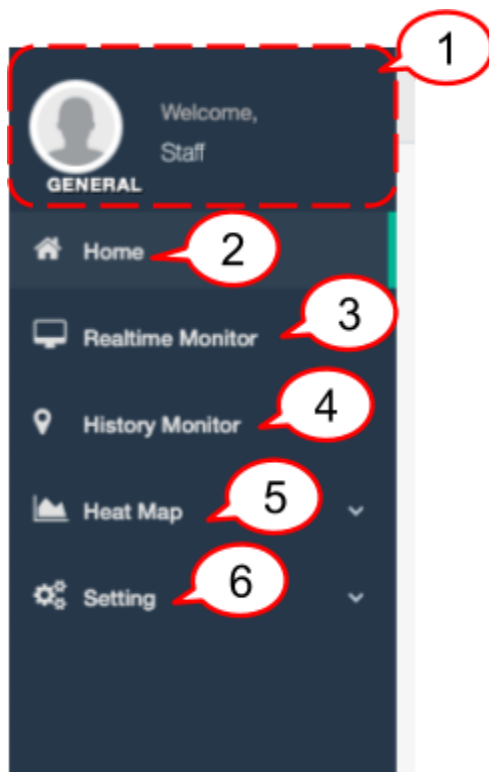


1. เมนูสำหรับการใช้งาน
2. แสดง Header ในหน้าการใช้งานผู้ใช้สามารถล็อกเอาท์ปุ่ม "Log Out"



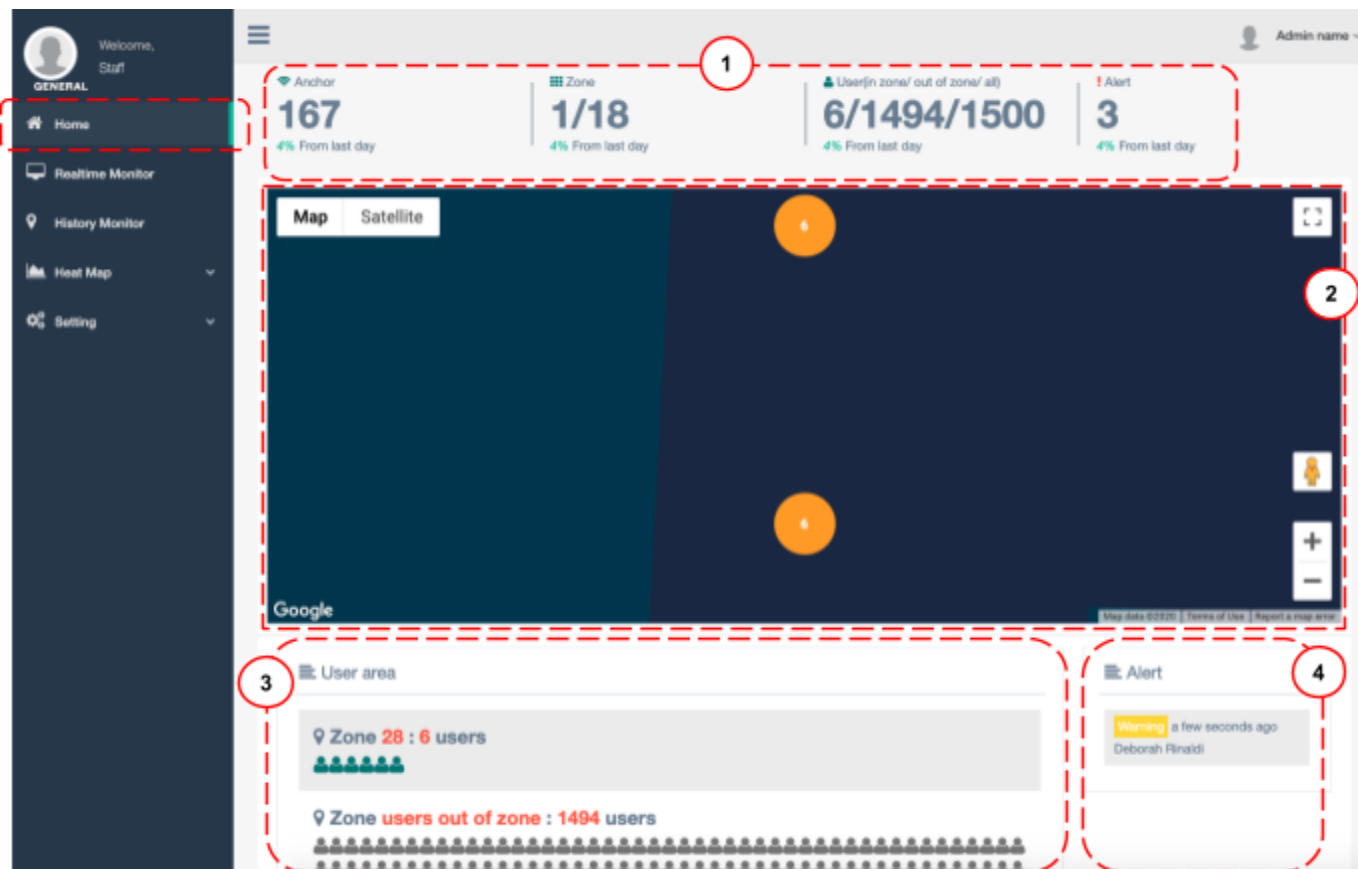
3. แสดงหน้าการใช้งานต่างๆ
4. แสดง Footer ในหน้าการใช้งานผู้ใช้สามารถดูเวอร์ชันของเว็บไซต์และรายละเอียดต่างๆ

3. เมนูการใช้งาน

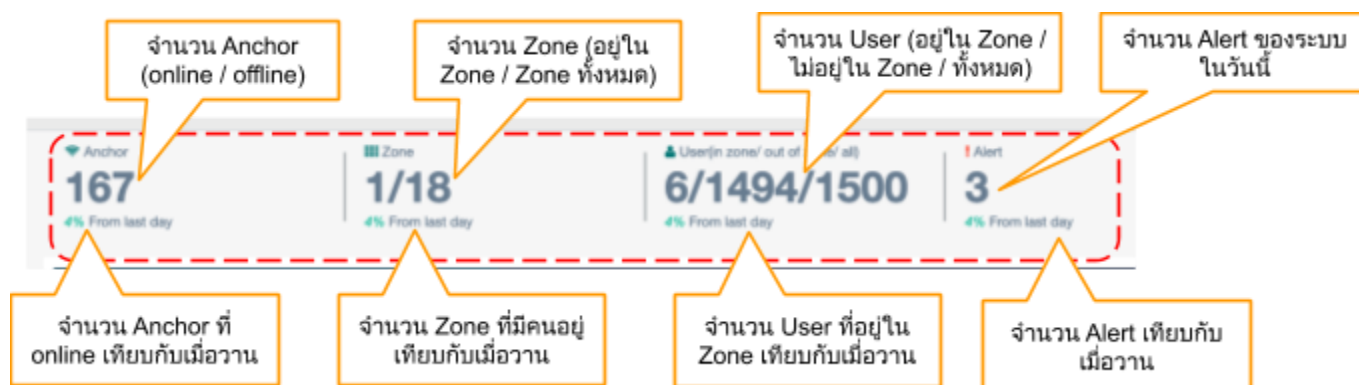


1. ข้อมูลของผู้ใช้งาน
 2. เมนูหน้า HOME
 3. เมนูหน้า Realtime Monitor
 4. เมนูหน้า History Monitor
 5. เมนูหน้า Heat Map
 6. เมนูหน้า Setting
-

3.1 เมนูการใช้งานหน้า HOME



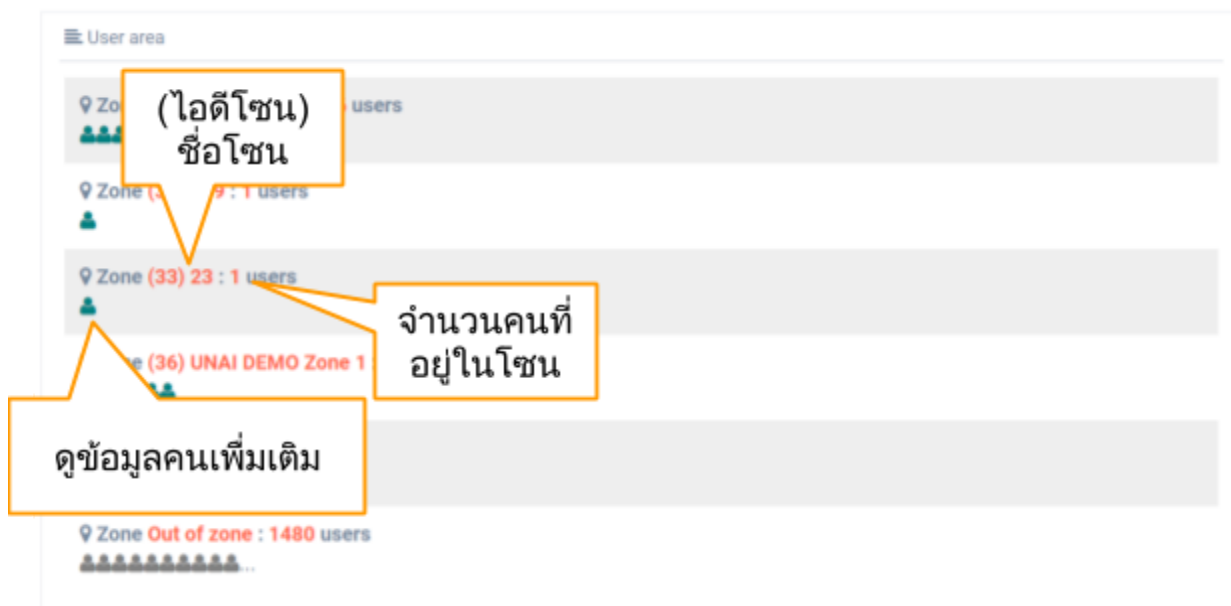
1. การแสดงข้อมูลต่างๆ



2. การเข้าใช้พีเจอร์ในการแสดงผลต่างๆ



3. User area



4. Alert (ตั้งค่าจาก [Alert](#))



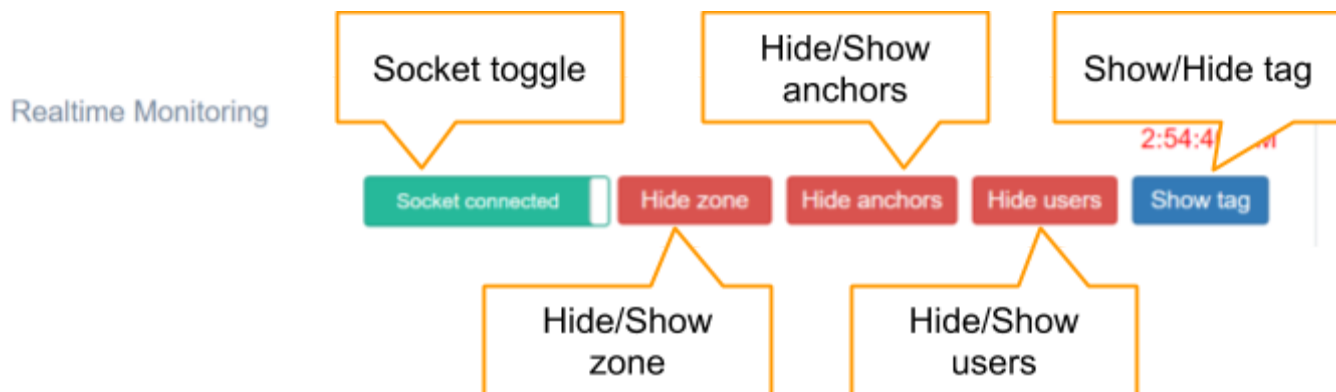
3.2 Real time monitor (คลิกจาก [การเข้าใช้พีเจวีในการแสดงผลต่างๆ](#))

The screenshot shows a Realtime Monitoring interface for the 4th Floor of NECTEC. The interface includes a sidebar with navigation options (Home, Realtime Monitor, History Monitor, Heat Map, Setting) and a main area displaying a floor plan with room numbers (401-425) and sensor locations. A legend below the floor plan identifies sensor types: Temperature, CO2, CO, NO, NO2, and PM. Below the floor plan, there is a 'List of all users on this floor' table with columns for Order, Time Update, Name, Position (x, y, Floor ID), and Warning History. The table lists six users with their names and positions.

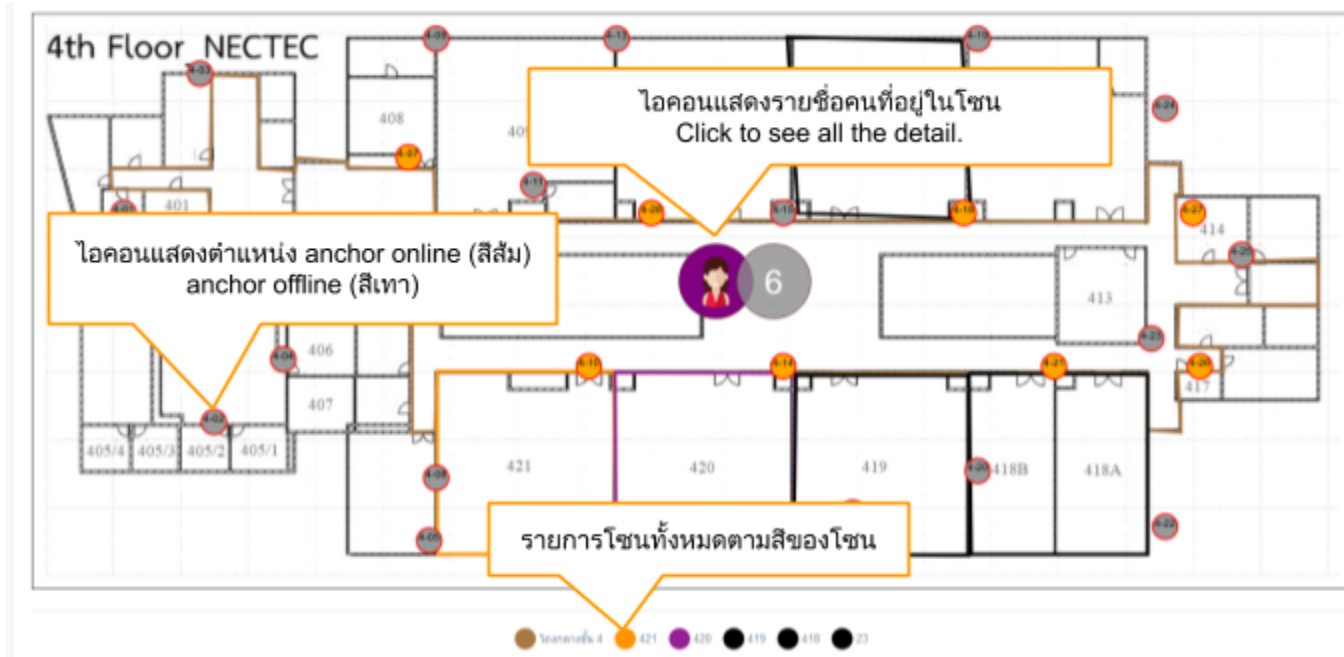
Order	Time Update	Name	Position (x, y, Floor ID)	Warning History
1	2:08:51 PM	Elex Wildeman	83.08, 26.80, 4	-
2	2:08:51 PM	Clara Roscoe	83.08, 26.80, 4	-
3	2:08:51 PM	Alexa Galyte	83.08, 26.80, 4	-
4	2:08:51 PM	Julia Hefli	83.08, 26.80, 4	-
5	2:08:51 PM	Zach Dugan	83.08, 26.80, 4	-
6	2:08:51 PM	Austin Sropog	73.08, 16.80, 4	-
7	2:08:51 PM	Julia Conant	96.04, 22.87, 4	-

1. ปุ่มเพื่อปรับการแสดงผลต่างๆ
2. หน้าแสดงผลแผนที่ภายใน
3. รายการชั้นที่อยู่ใน building
4. รายละเอียดคนที่อยู่ในโซน

1. ปุ่มเพื่อปรับการแสดงผลต่างๆ



2. หน้าแสดงผลแผนที่ภายใน



3. รายการชั้นที่อยู่ใน building

เลือกชั้นที่ต้องการแสดงผลตามชั้นที่มีอยู่ใน building

Select Floor :

Filter Tag

เพิ่มรายการกรองการแสดงผล หากไม่ระบุจะแสดงทั้งหมด ถ้าระบุจะแสดงเฉพาะไอดีของแท็กที่ระบุ

4. รายละเอียดคนที่อยู่ในโซน

เลือกจำนวนรายการแสดงแต่ละหน้า

ค้นหาคนที่อยู่ในรายการของชั้นนี้

List of all users in floor

Show entries

Order	Time Update	Name	Position (x, y, floor ID)	Warning history
1	4:21:21 PM	Elin Wildeman	83.58, 26.00, 4	-
2	4:21:21 PM	Artur Mächa	83.58, 26.00, 4	-
3	4:21:21 PM	Clara Roussel	83.58, 26.00, 4	-
4	4:21:21 PM	Ahla Guliyev	83.58, 26.00, 4	-
5	4:21:21 PM	Jika Hagbi	83.58, 26.00, 4	-
6	4:21:21 PM	Zolt Dognár	83.58, 26.00, 4	-
7	4:21:21 PM	Alexei Tenopov	73.58, 15.00, 4	-
8	4:21:21 PM	Alexis Conrad	60.46, 25.35, 4	-
9	4:21:21 PM	Stavro Katsis	61.93, 26.87, 4	-
10	4:21:21 PM	Hugo Janszhek	70.27, 15.89, 4	-

Showing 1 to 10 of 10 entries

Previous 2 Next

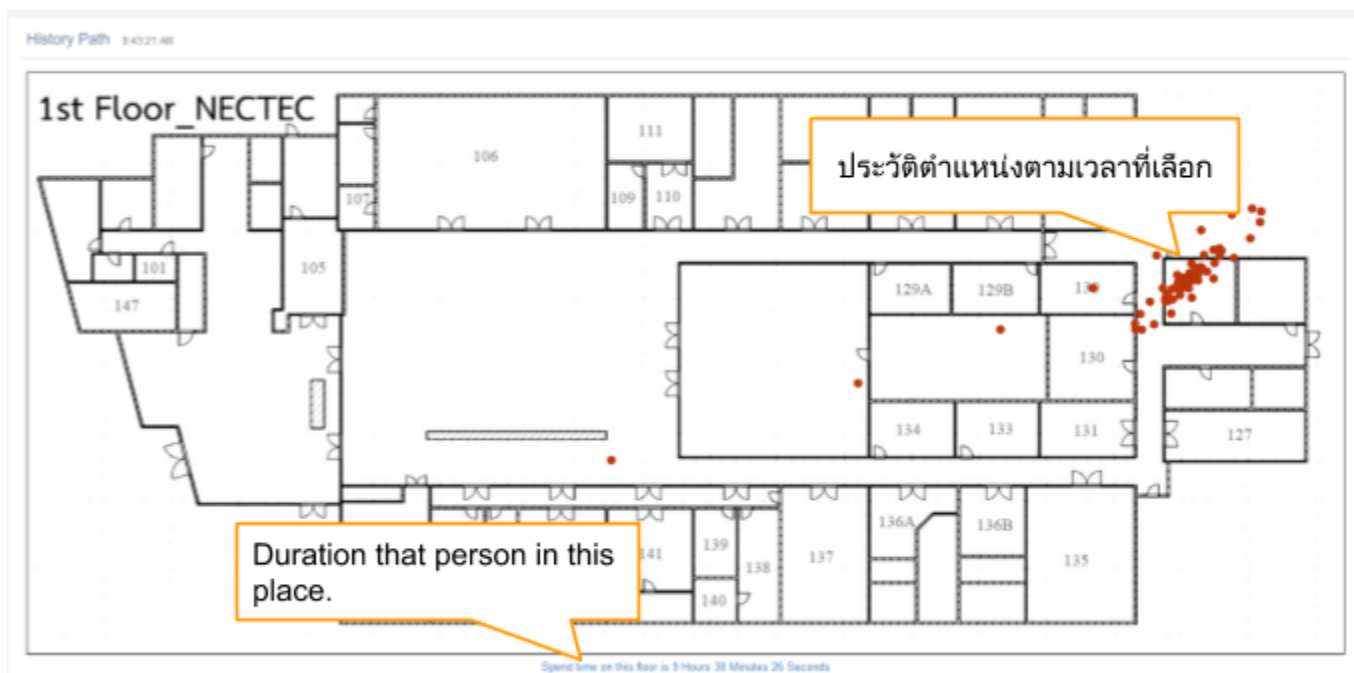
เปลี่ยนหน้ารายการ

3.3 History monitor (คลิกจาก [การเข้าใช้ไฟเจอร์ในการแสดงผลต่างๆ](#))



1. History Path ของชั้น
2. ตัวเลือกเพื่อแสดงผล

1. History Path ของชั้น



2. ตัวเลือกเพื่อแสดงผล

Choose floor

Choose user

Choose date

Submit button

Floor : NECTEC-Floor4

User : (1) Elias Widerman

Date : 16/05/2020 09:30:40 - 22/05/2020 09:30:40

Cancel Submit

The figure shows a web form for selecting parameters to display a history path. The form has three main sections: 'Choose floor' with a dropdown menu showing 'NECTEC-Floor4'; 'Choose user' with a dropdown menu showing '(1) Elias Widerman'; and 'Choose date' with a date range selector showing '16/05/2020 09:30:40 - 22/05/2020 09:30:40'. Below these sections are two buttons: 'Cancel' (blue) and 'Submit' (green). A callout box points to the 'Submit' button with the text 'Submit button'.

3.4 Heat map (คลิกจาก [การเข้าใช้ฟีเจอร์ในการแสดงผลต่างๆ](#))



1. Heat map
2. Choose your desire floor
3. Sub-menu: realtime, animation history, and cumulative history

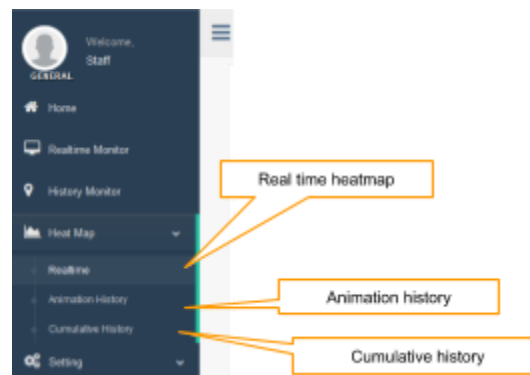
1. Realtime Heat map (ตั้งค่าได้จาก [Heat Map](#))



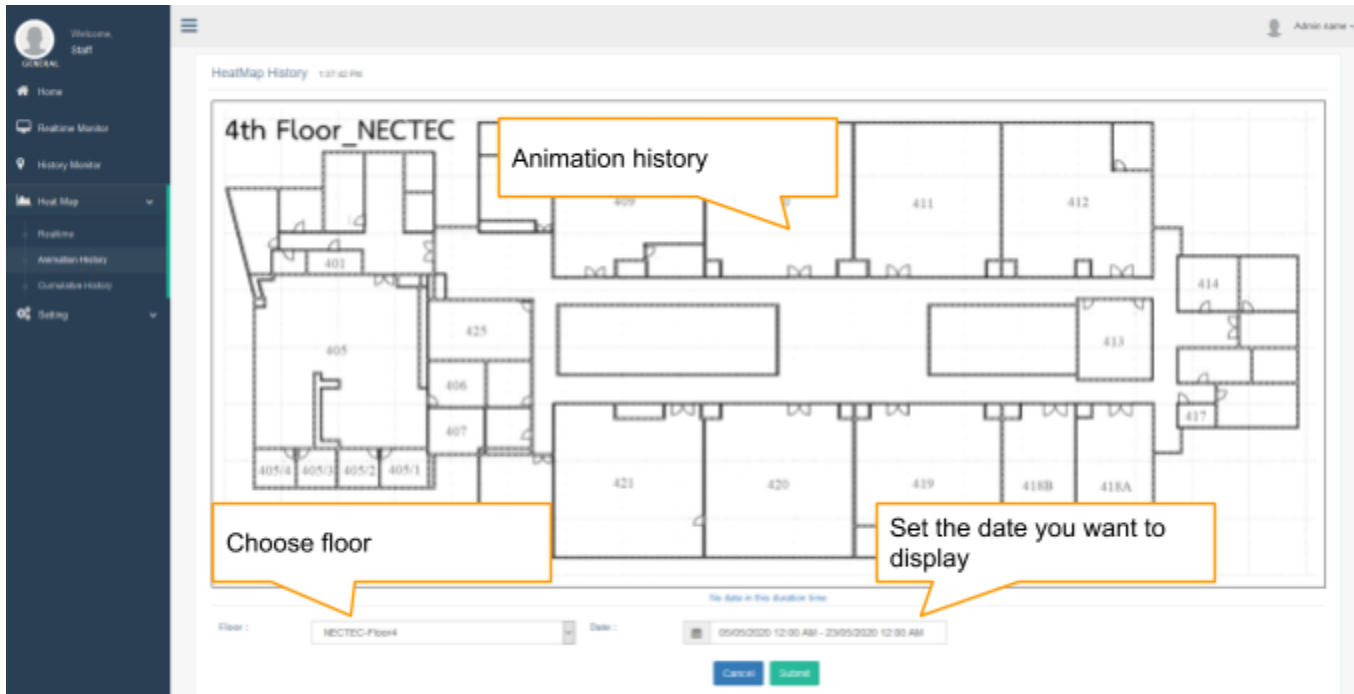
- Choose your desire floor



- เมนูย่อย: realtime, animation history, และ cumulative history



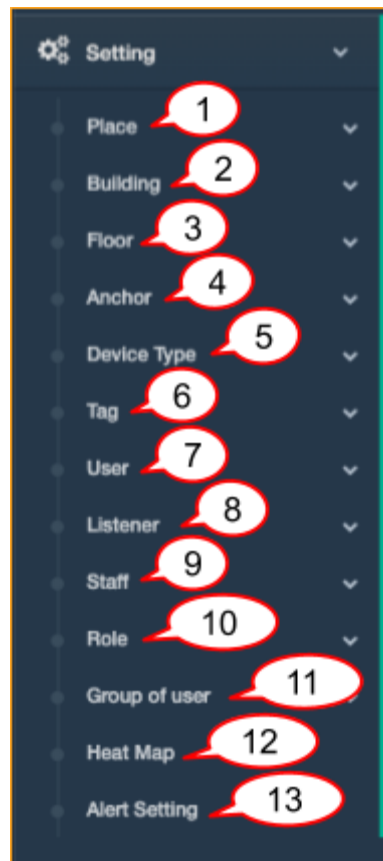
2. Animation history



3. Cumulative history



3.5 Setting



1. Place : เพิ่ม และ ดูรายการของ place
2. Building : เพิ่ม และ ดูรายการของ building
3. Floor : เพิ่ม, ดูรายการ และแก้ไขโซนของชั้น
4. Anchor : เพิ่ม และ ดูรายการของ anchor
5. Device Type : เพิ่ม และ ดูรายการของ device type (ble, uwb)
6. Tag : เพิ่ม และ ดูรายการของ tag
7. User : เพิ่ม และ ดูรายการของ user
8. Listener : เพิ่ม และ ดูรายการของ listener (UWB only)
9. Staff : เปลี่ยนรหัสของ staff
10. Role : เพิ่ม และ ดูรายการของ role
11. Group of user : เพิ่ม และ ดูรายการของ group หรือ user (department, section, lab)
12. Heat Map : ตั้งค่าและกำหนดค่าการแสดงผลของ head map

13. Alert : ตั้งค่าและกำหนดค่าการแสดงผลของ alert

1. Place

1.1. เพิ่ม Place

The screenshot shows the 'Place' configuration form in a web application. The form is titled 'Place' and is located in the 'Setting' section of the application. The form includes the following fields and callouts:

- Name ***: Enter place name
- Description**: Enter place description
- IP Address**: Enter ip address (optional)
- DNS Server**: Enter dns sever (optional)
- NTP Server**: Enter ntp sever (optional)
- Position**: Edit location : Darg pin to place location. (The form includes a map with 'Map' and 'Satellite' views, and a red pin on the map.)
- Latitude**: Enter manul latitude, longitude
- Longitude**: Enter manul latitude, longitude

At the bottom of the form, there are two buttons: 'Cancel' and 'Submit'. A callout box labeled 'Action place data' points to the 'Submit' button.

บ. รายการ Place

The screenshot displays a web application interface for managing 'Places'. On the left is a dark sidebar menu with a 'GENERAL' section containing items like Home, Realtime Monitor, History Monitor, Heat Map, Setting, Place, Add Place, List Place, and Building. The 'List Place' item is highlighted with a red dashed box. The main content area is titled 'Places' and shows a table with 2 entries. The table has columns for #, Name, Description, IP Address, DNS Server Address, NTP Server Address, and #Edit. The first entry is 'NECTEC' with a detailed description in Thai, IP 0.0.0.1, DNS 0.0.0.1, and NTP 0.0.0.1. The second entry is 'NECTEC-DEMO' with description 'Demo only'. Callouts with arrows point to the table header (labeled 'list places'), the 'Edit' button of the first row (labeled 'edit place'), and the 'Delete' button of the first row (labeled 'delete place'). The sidebar menu is also enclosed in a red dashed box.

#	Name	Description	IP Address	DNS Server Address	NTP Server Address	#Edit
1	NECTEC	ศูนย์เทคโนโลยีสารสนเทศและการสื่อสาร หรือ ศูนย์ เป็นหน่วยงานที่รับผิดชอบดูแลระบบสารสนเทศในสังกัดของกรมส่งเสริมการค้าระหว่างประเทศ ในสังกัดสำนักงานส่งเสริมการค้าระหว่างประเทศ กระทรวงพาณิชย์	0.0.0.1	0.0.0.1	0.0.0.1	Edit Delete
2	NECTEC-DEMO	Demo only				Edit Delete

2. Building

a. เพิ่ม Building

Building

Enter building name

Name *

Enter building description

Description

Enter number of floor

Number of Floor

Position

Map Satellite

Edit location : Darg pin to building location.

Latitude 14.077901

Enter manuel latitude, longitude

Longitude 100.601225

Select place name in dropdown

Place Name NECTEC

Brown image building

Upload image Browse...

Action building data

Cancel Submit

b. รายการ Building

The screenshot displays a web application interface for managing buildings. On the left is a dark sidebar with a navigation menu. The main content area shows a table of buildings with columns for ID, Building Name, Place Name, Description, Latitude, and Longitude. Each row has an 'Edit' button (blue) and a 'Delete' button (red). Annotations with orange boxes and arrows point to the 'List Building' menu item in the sidebar, and the 'Edit' and 'Delete' buttons in the table rows.

list building

edit building

delete building

#	Building Name	Place Name	Description	Latitude	Longitude	#Edit
1	NECTEC	NECTEC	NECTEC (Floor-1 - Floor-4)	14.077881378117922	100.60103246569635	Edit Delete
2	NECTEC-DEMO	NECTEC		14.07	100.60103246569635	Edit Delete
3	UNAI DEMO	NECTEC	UNAI DEMO อาคาร	14.077901		Edit Delete

Showing 1 to 3 of 3 entries

Previous Next

3. Floor

a. เพิ่ม Floor

The screenshot shows the 'Add Floor' form in a web application. The sidebar menu on the left includes: Setting, Place, Building, Floor (with 'Add Floor' and 'List Floor' sub-items), Anchor, Device Type, Tag, User, Listener, Staff, Role, Group of user, Heat Map, and Alert Setting.

The main form area contains the following fields and callouts:

- Image Upload:** A callout box says "Upload image. You will be asked to crop the image." Below it is an "Image Upload" button.
- Name *:** A text input field with a callout box labeled "Floor name".
- Map Width (Pixel):** A text input field with a callout box saying "Please insert map width".
- Map Height (Pixel):** A text input field with a callout box saying "Please insert map height".
- Pixel per Meter:** A text input field with the value "0" and a callout box saying "Pixel per meter".
- Origin X (Pixel):** A text input field with the value "0" and a callout box saying "Set origin x".
- Origin Y (Pixel):** A text input field with the value "0" and a callout box saying "Set origin y".
- Offset X (Pixel):** A text input field with the value "0" and a callout box saying "Set offset x".
- Offset Y (Pixel):** A text input field with the value "0" and a callout box saying "Set offset y".
- Place:** A dropdown menu with "NECTEC" selected and a callout box saying "Choose place".
- Building:** A dropdown menu with "NECTEC" selected and a callout box saying "Choose building".

At the bottom of the form are "Cancel" and "Submit" buttons.

b. รายการ Floor

The screenshot shows the 'List Floors' interface. On the left is a sidebar menu with options like Home, Realtime Monitor, History Monitor, Heat Map, Setting, Place, Building, Floor, Add Floor, List Floor, and Anchor. The main area displays a table with columns: #, Name, Building Name, Place Name, Image, and Actions. The table lists six floors (Floor1 to Floor6) for the building 'NECTEC'. Annotations include:

- 'Click to edit floor' pointing to the 'Edit' button in the Actions column.
- 'Delete floor' pointing to the 'Delete' button in the Actions column.
- 'คลิกเพื่อไป เพิ่ม,แก้ไข โชน' (Click to go to add/edit zone) pointing to the 'Edit Zone' button.

#	Name	Building Name	Place Name	Image	Actions
1	NECTEC-Floor1	NECTEC	NECTEC		Edit Edit Zone Delete
2	NECTEC-Floor2	NECTEC	NECTEC		Edit Edit Zone Delete
3	NECTEC-Floor3	NECTEC	NECTEC		Edit Edit Zone Delete
4	NECTEC-Floor4	NECTEC	NECTEC		Edit Edit Zone Delete
5	NECTEC-Floor5	NECTEC	NECTEC		Edit Edit Zone Delete
6	NECTEC-Floor6	NECTEC	NECTEC		Edit Edit Zone Delete

แก้ไข Zone

The screenshot shows the 'Set Zones' interface for the '1st Floor_NECTEC'. It displays a floor plan with several zones highlighted in different colors (yellow, orange, red, purple, green). Annotations include:

- 'คลิกเพื่อกำหนดโซนและกด Ctrl เพื่อปิด polygon ของโซน' (Click to define zone and press Ctrl to close polygon of zone) pointing to a zone on the floor plan.
- 'Insert zone name' pointing to the 'Name' input field.
- 'choose color of zone' pointing to the color selection dropdown.
- 'Submit button' pointing to the 'Submit' button.
- 'Coordinates will automatically insert' pointing to the 'Coordinates' input field.
- 'Edit zone name and color' pointing to the 'Edit' button in the table below.
- 'กดค้นหาโซน ระบบจะ highlight หลังจากคลิก' (Click search zone, system will highlight after click) pointing to the search input field.
- 'Delete zone' pointing to the 'Delete' button in the table below.

#	Name	Zone ID	Coordinates	Options
1	101	17	[[{"x": 100, "y": 100}, {"x": 200, "y": 100}, {"x": 200, "y": 200}, {"x": 100, "y": 200}, {"x": 100, "y": 100}]]	Edit Delete
2	102	18	[[{"x": 300, "y": 100}, {"x": 400, "y": 100}, {"x": 400, "y": 200}, {"x": 300, "y": 200}, {"x": 300, "y": 100}]]	Edit Delete
3	103	19	[[{"x": 500, "y": 100}, {"x": 600, "y": 100}, {"x": 600, "y": 200}, {"x": 500, "y": 200}, {"x": 500, "y": 100}]]	Edit Delete

4. Anchor

a. Thêm Anchor

The screenshot shows the 'Anchor' configuration page. The left sidebar contains a navigation menu with the following items: Home, Realtime Monitor, History Monitor, Heat Map, Setting (selected), Place, Building, Floor, Anchor (selected), Add Anchor, List Anchor, Device Type, Tag, User, Listener, Staff, Role, Group of user, Heat Map, and Alert Setting. The main content area is titled 'Anchor' and contains the following fields:

- Label * (text input)
- Mac Address to Engine * (text input)
- Status (dropdown menu, currently set to ON)
- Place (dropdown menu, currently set to NECTEC)
- Building (dropdown menu, currently set to NECTEC)
- Floor (dropdown menu, currently set to NECTEC-Floor1)
- Device Type (dropdown menu, currently set to bluetooth)
- X (text input)
- Y (text input)
- Z (text input)
- UUID (text input)
- Major (text input)
- Minor (text input)
- Firmware Version (text input)
- Mac Address to Tag (text input)
- Network ID (text input)
- IP Address (text input)
- TX Antena Delay (text input)
- RX Antena Delay (text input)
- DNS Server (text input)

Orange callout boxes point to the following fields with labels:

- Anchor label (Label *)
- Mac Address (Mac Address to Engine *)
- Set status (Status)
- Choose place (Place)
- Choose building (Building)
- Choose floor (Floor)
- device type (Device Type)
- X position (X)
- Y position (Y)
- Z position (Z)
- UUID (UUID)
- Major (Major)
- Minor (Minor)
- Firmware version (Firmware Version)
- Mac address (Mac Address to Tag)
- Network id (Network ID)
- IP address (IP Address)
- TX antene delay (TX Antena Delay)
- RX Antene Delay (RX Antena Delay)
- DNS Server (DNS Server)

At the bottom of the form, there are 'Cancel' and 'Submit' buttons.

บ. รายการ Anchor

GENERAL

Home

Realtime Monitor

History Monitor

Heat Map

Setting

Place

Building

Floor

Anchor

Add Anchor

List Anchor

Device Type

List Anchors

Show 10 entries

Search:

#	Label	Floor	Building	Place	X	Y	#Edit
1	A39	NECTEC-DEMO	NECTEC-DEMO	NECTEC	0	0	Edit Delete
2	A41	NECTEC-DEMO	NECTEC-DEMO	NECTEC	0	50	Edit Delete
3	A45	NECTEC-DEMO	NECTEC-DEMO	NECTEC	0	12.66	Edit Delete
4	A50	NECTEC-DEMO	NECTEC-DEMO	NECTEC	10.22	12.66	Edit Delete
5	A51	NECTEC-DEMO	NECTEC-DEMO	NECTEC	10.22	0	Edit Delete
6	A57	NECTEC-DEMO	NECTEC-DEMO	NECTEC	50	6.4	Edit Delete
7	A60	NECTEC-DEMO	NECTEC-DEMO	NECTEC	50	6.49	Edit Delete
8	A62	NECTEC-Floor1	NECTEC	NECTEC	128.43	44.1	Edit Delete
9	A63	NECTEC-Floor1	NECTEC	NECTEC	999	999	Edit Delete

5. Device Type

า. เพิ่ม Device Type

GENERAL

Home

Realtime Monitor

History Monitor

Heat Map

Setting

Place

Building

Floor

Anchor

Device Type

Add Device Type

List Device Type

Tag

Device Type

Device type name

name *

Cancel Submit

b. រក្សាទុក Device Type

The screenshot shows a web application interface for managing device types. The main content area is titled "List Tag Type" and contains a table with the following data:

#	Name	Edit	Delete
1	bluetooth	Edit	Delete
2	UWB	Edit	Delete

Below the table, it indicates "Showing 1 to 2 of 2 entries" and provides "Previous" and "Next" navigation options. The left sidebar shows the navigation menu with "List Device Type" selected.

6. Tag

a. Thêm tag

GENERAL

Welcome,
Staff

Home

Realtime Monitor

History Monitor

Heat Map

Setting

- Place
- Building
- Floor
- Anchor
- Device Type
- Tag
 - Add Tag
 - List Tag
- User
- Listener
- Staff
- Role

Tag

Label *

UUID *

Major *

Minor *

Manufacturer

Volt Battery

Firmware Version

Mac Address

Blink period

TX Antenna Delay

RX Antenna Delay

Device Type

Cancel Submit

ບ. ການ ກວດ ທາງ tag

The screenshot displays a web application interface for managing tags. On the left is a dark sidebar with navigation options: Home, Realtime Monitor, History Monitor, Heat Map, Setting (with sub-options: Place, Building, Floor, Anchor, Device Type, Tag, Add Tag, List Tag), User, and Listener. The main content area is titled 'List Tags' and features a search bar and a 'Show 10 entries' dropdown. Below is a table with 10 rows of tag data. Each row includes an 'Edit' button (blue) and a 'Delete' button (red). Two callouts are present: one pointing to the 'Edit' button of the first row labeled 'Edit tag', and another pointing to the 'Delete' button of the third row labeled 'Delete Tag'. At the bottom, it shows 'Showing 1 to 10 of 1,500 entries' and a pagination control with 'Previous', '1', '2', '3', '4', '5', '...', '150', and 'Next'.

#	Label	Major	Minor	UUID	
1	Tag 001	9999	1	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete
2	Tag 002	9999	2	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete
3	Tag 003	9999	3	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete
4	Tag 004	9999	4	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete
5	Tag 005	9999	5	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete
6	Tag 006	9999	6	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete
7	Tag 007	9999	7	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete
8	Tag 008	9999	8	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete
9	Tag 009	9999	9	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete
10	Tag 010	9999	10	b9407f30-5f8-466e-af9-25556b57fe6d	Edit Delete

7. User

a. Thêm user

The screenshot displays the 'Add User' form within a system interface. The form is titled 'User' and contains the following fields and options:

- First Name ***: Text input field.
- Last Name ***: Text input field.
- Nick Name**: Text input field.
- Email**: Text input field.
- Gender**: Radio button selection with 'Male' selected and 'Female' unselected.
- Date Of Birth ***: Date input field showing '2020-05-22'.
- Tag ID**: Dropdown menu showing 'Default'.
- Initial Floor Name**: Dropdown menu showing 'NECTEC-Floor1'.

At the bottom of the form, there are two buttons: 'Cancel' (blue) and 'Submit' (green).

The left sidebar shows the 'Setting' menu expanded, with 'User' selected. Under 'User', there are two options: 'Add User' and 'List User'.

Orange callout boxes highlight the following fields:

- User first name
- User last name
- Nick name
- Email
- Gender
- Date of birth
- Tag ID
- Choose floor

b. រាយការ user

The screenshot displays a web application interface for managing users. On the left is a dark sidebar with navigation options: Home, Realtime Monitor, History Monitor, Heat Map, Setting (expanded), and Listener. The 'Setting' menu includes Place, Building, Floor, Anchor, Device Type, Tag, User (expanded), and Listener. The 'User' sub-menu shows 'Add User' and 'List User'. The main content area is titled 'Users' and features a table with 10 entries. The table columns are '#', 'First Name', 'Last Name', 'Gender', and 'Tag'. Each row includes 'Edit' and 'Delete' buttons. Two callouts highlight the 'Edit user' and 'Delete user' buttons for the first user (Elias Wildeman). The interface also includes a search bar, a 'Show 10 entries' dropdown, and pagination controls at the bottom.

#	First Name	Last Name	Gender	Tag	Edit	Delete
1	Elias	Wildeman	M	Tag 001	Edit	Delete
2	Artur	Mácha	M	Tag 002	Edit	Delete
3	Gabriela	Zemanová	F	Tag 003	Edit	Delete
4	Clara	Roussel	F	Tag 004	Edit	Delete
5	Kristoffer	Jacobsen	M	Tag 005	Edit	Delete
6	Anna	Nilsson	F	Tag 006	Edit	Delete
7	Bonifác	Greguš	M	Tag 007	Edit	Delete
8	Célie	Lacroix	M	Tag 008	Edit	Delete
9	Gustavo	Llamas	F	Tag 009	Edit	Delete
10	Muriel	Will	F	Tag 010	Edit	Delete

Showing 1 to 10 of 1,500 entries

Previous 1 2 3 4 5 ... 150 Next

8. Listener : Add and List listener (UWB only)

a. เพิ่ม Listener (UWB only)

The screenshot shows the 'Listener' form in a web application. The form is titled 'Listener' and contains the following fields:

- Serial ***: A text input field.
- Name ***: A text input field.
- Place**: A dropdown menu with 'NECTEC' selected.
- Building**: A dropdown menu with 'NECTEC' selected.
- Floor**: A dropdown menu with 'NECTEC-Floor1' selected.

At the bottom of the form, there are two buttons: 'Cancel' (blue) and 'Submit' (green). The sidebar on the left shows the navigation menu with 'Listener' selected. Callout boxes point to the Serial, Name, Place, Building, and Floor fields.

b. រក្សាការ Listener (UWB only)

The screenshot displays a web application interface for managing UWB listeners. On the left is a dark sidebar with navigation options: Home, Realtime Monitor, History Monitor, Heat Map, Setting, and Listener. The 'Listener' menu is expanded, showing 'Add Listener' and 'Listener' options. The main content area features a table with columns for '#', 'Serial', 'Name', and '#Edit'. The table is currently empty, displaying the message 'No data available in table'. Above the table, there is a search bar and a dropdown menu set to '10 entries'. Below the table, it shows 'Showing 0 to 0 of 0 entries' and 'Previous Next' pagination buttons.

9. Staff : เปลี่ยน password staff

The screenshot displays a web interface for changing a staff member's password. On the left is a dark sidebar menu with the following items: Home, Realtime Monitor, History Monitor, Heat Map, Setting (expanded), Place, Building, Floor, Anchor, Device Type, Tag, User, Listener, Staff (selected), Change Password (highlighted), and Role. The main content area is titled 'Change Password' and contains three input fields: 'Old Password *', 'New Password *', and 'Confirm New Password *'. Below the fields are two buttons: 'Cancel' (blue) and 'Submit' (green). Three orange callout boxes with arrows point to the input fields, containing the following text: 'Fill your current password' (pointing to the Old Password field), 'Fill your new password' (pointing to the New Password field), and 'Re enter your new password' (pointing to the Confirm New Password field).

10. Role ใช้สำหรับกำหนด Role profile เพื่อที่จะกำหนดการเข้าโซนของ user เช่นการอนุญาตให้เข้าโซนได้หรือไม่อนุญาตให้เข้าโซน

a. เพิ่ม Role

The screenshot shows the 'Role' configuration page. The sidebar menu on the left includes options like Home, Realtime Monitor, History Monitor, Heat Map, Setting, Place, Building, Floor, Anchor, Device Type, Tag, User, Listener, Staff, Role, and Group of user. The main content area is titled 'Role' and contains several input fields and tables. Callouts point to various elements: 'Role name' points to the 'Name *' field; 'Role description' points to the description field; 'Input the allow zone' points to the 'Allow Zone' input field; 'Input the unallow zone' points to the 'Prohibit Zone' input field; 'Input building that you want this role apply to.' points to the 'Building' field; 'Click to add to list' points to the '+' button next to the 'Allow Zone' table; 'Click to add to list' points to the '+' button next to the 'Prohibit Zone' table; and 'Click to add to list' points to the '+' button next to the 'User' input field. At the bottom, there are 'Cancel' and 'Submit' buttons.

b. រាយការ Role

The screenshot shows a web application interface for managing roles. On the left is a dark sidebar menu with the following items: Home, Realtime Monitor, History Monitor, Heat Map, Setting (expanded), Place, Building, Floor, Anchor, Device Type, Tag, User, Listener, Staff, Role (expanded), Add Role, List Role, and Group of user. The main content area features a table with the following data:

#	Role ID	Role Name	Description	
1	1	Role 1	Role 1 : តែងតាំងអនាម័យភាព	Edit Delete
2	2	ABC	TEST	Edit Delete
3	3	df01_prohibit	df01_prohibit	Edit Delete

At the top of the table, there is a 'Show 10 entries' dropdown and a search box. Below the table, it says 'Showing 1 to 3 of 3 entries' and has 'Previous' and 'Next' navigation buttons. Two orange callout boxes point to the 'Edit' and 'Delete' buttons for the first role, with labels 'Edit role' and 'Delete role' respectively.

11. Group of user

a. Thêm Group of user

The image shows a dashboard interface with a sidebar on the left and a main content area on the right. The sidebar is dark blue and contains a 'Setting' menu with various options, including 'Group of user' which is expanded to show 'Add group of user' and 'List group of user'. The main content area is white and displays the 'Add group of user' form. The form has the following fields:

- Name ***: A text input field with a callout box labeled 'Group user name'.
- label ***: A text input field with a callout box labeled 'Label'.
- background color ***: A color selection field with a callout box labeled 'Background color'.
- text color ***: A color selection field with a callout box labeled 'Text color'.
- border color ***: A color selection field with a callout box labeled 'Border color'.

At the bottom of the form, there are two buttons: a blue 'Cancel' button and a green 'Submit' button.

b. รายการ Group of user

The screenshot shows the 'Group of user' management interface. The left sidebar contains the following menu items: GENERAL, Home, Realtime Monitor, History Monitor, Heat Map, Setting (selected), Place, Building, Floor, Anchor, Device Type, Tag, User, Listener, Staff, Role, Group of user (expanded), Add group of user, List group of user, and Heat Map. The main content area displays a table of user groups with the following columns: Order, label, Name, background color, border color, text color, and Actions. The table contains 9 rows of data. Two callouts are present: 'Edit user group' pointing to the 'Edit' button for the first row, and 'Delete user group' pointing to the 'Delete' button for the first row.

Order	label	Name	background color	border color	text color	Act
1	กลุ่มงานสายการปฏิบัติการ	กลุ่มงานสายการปฏิบัติการ	#000000	#000000	#000000	Edit Delete
2	กลุ่มงานแผนและงบประมาณ	กลุ่มงานแผนและงบประมาณ	#800040	#008000	#FF0040	Edit Delete
3		กลุ่มงานกลยุทธ์พัฒนาบุคลากร				Edit Delete
4		กลุ่มงานความร่วมมือระหว่างประเทศ				Edit Delete
5		กลุ่มงานบริหารและพัฒนาระบบสารสนเทศ				Edit Delete
6		กลุ่มงานบริหารโครงการพิเศษ				Edit Delete
7		กลุ่มงานประเมินผลงานวิจัยและจัดการความรู้				Edit Delete
8		กลุ่มงานประเมินผล				Edit Delete
9		กลุ่มงานประชาสัมพันธ์				Edit

12. Heat Map

The screenshot displays the 'Heat Map Setting' configuration page. On the left is a dark sidebar menu with the following items: Home, Realtime Monitor, History Monitor, Heat Map (selected), Setting, Place, Building, Floor, Anchor, Device Type, Tag, User, Listener, Staff, Role, Group of user, Heat Map, and Alert Setting. The main content area is titled 'Heat Map Setting' and contains three sections of settings, each with a 'Cancel' and 'Submit' button at the bottom.

Parameter	Value	Callout Label
Realtime Max	3	Realtime max
Realtime Size	1000	Realtime size
Realtime MinOpacity	0.05	Realtime minOpacity
Animation Max	12	Animation max
Animation Size	1000	Animation size
Animation MinOpacity	0.0001	Animation MinOpacity
Cumulative Max	50	Cumulative max
Cumulative Size	500000	Cumulative size
Cumulative MinOpacity	0.0001	Cumulative MinOpacity.

13. Alert

GENERAL

- Home
- Realtime Monitor
- History Monitor
- Heat Map
- Setting**
 - Place
 - Building
 - Floor
 - Anchor
 - Device Type
 - Tag
 - User
 - Listener
 - Staff
 - Role
 - Group of user
 - Heat Map
 - Alert Setting**

Setting dashboard client

Alert Min *	30	Alert Min
Alert Max *	300	Alert Max
Alert delay *	30	Alert delay

Setting dashboard server

dashboard interval *	15	Dashboard interval
fifo tag relay *	15	Fifo tag relay
fifo tag nearby relay *	10	Fifo tag nearby relay
fifo aliveAnchor relay *	120	Fifo alive anchor relay
fifo sensor relay *	1800	Fifo sensor relay

Submit