

AUM User Manual

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Chapter 1: The Awesome Usage Monitor

1.1 Introduction

The Awesome Usage Monitor (AUM) has two main purposes: to track the usage of the tools within the labs workspace, and to restrict access to a specific tool if the user is not trained in its proper use.

There are three main components to the Awesome Usage Monitor.

1. The Station Modules
2. The PowerSwitch Tail 2
3. The User Interface

For setting up any of these devices please refer to their respective section.

1.2 Requirements

In order to begin using the AUM, it is important that you have the following production environment properly installed, updated, and configured for your specific network and security requirements. The AUM repository consists only of the Project files, and does not contain any files from any third party repositories. It is assumed that you have a fresh installation of Ubuntu Server, or equivalent, as well as the following third party applications installed on your production server.

1. Ubuntu Server with:
 - a. OpenSSH
 - b. Postfix
 - c. PostgreSQL
 - d. git
 - e. Python3.x
 - f. Gunicorn
 - g. Nginx
 - h. Django 1.1
2. An internally or externally hosted domain

1.3 Station Module

The Station Module is an RFID based device used for controlling access and logging usage of your tools within the lab. Users will tap their RFID enabled card or FOB to the Station Module's card reader when they intend to activate the tool. The Station Module then checks the RFID based credentials of the user with respect to the tool it is attached to. If the user is authorized,

the Station Module triggers the PowerSwitch Tail 2 to switch power to the tool. Otherwise, the tool remains unable to be powered on.

1.4 PowerSwitch Tail 2

This is an off the shelf solution for controlling power to a tool. When a “go” signal is sent to the PowerSwitch Tail 2 (PST2), it allows power from the wall to the tool. Otherwise, the power is off.

1.5 User Interface

The User Interface is the web based administration website used to create, modify, and query the underlying database. Through the User Interface you can:

1. Add, Modify, View, and Delete a User
2. Add, Modify, View, and Delete a Tool
3. Add, Modify, View, and Delete a Station Module
4. Modify and View TimeStamps for Station Module usage
5. Run, Manage, and Export administrative reports.

1.6 The Git Repository

The AUM repository is held [on Github](#), and may require permissions to access the repo.

Contact: [Chris Clark](#) for any questions or concerns you have with the repository.

Chapter 2: The Web Framework and Database

2.1 The Development Environment

The AUM was developed using Ubuntu Server 16.04.2 with PostFix, PostgreSQL, OpenSSH, git, Python3.0, Gunicorn, Nginx, and Django 1.11. This guide does not cover how to download and install these programs. Nor does the AUM repository contain any files from these third party repositories. The following tutorials may be of assistance if you have never installed Ubuntu Server or any third party applications and still wish to deploy the AUM for your lab.

[Ubuntu Installation Tutorial](#)

[Ubuntu Server Configuration Guide](#)

- [PostFix Service Guide](#)
- [Git Version Control](#)
- [Environment Installation](#)

2.2 The Production Environment

Deploying the AUM to a production environment is easy. Follow these high level steps to deploy and begin using the AUM:

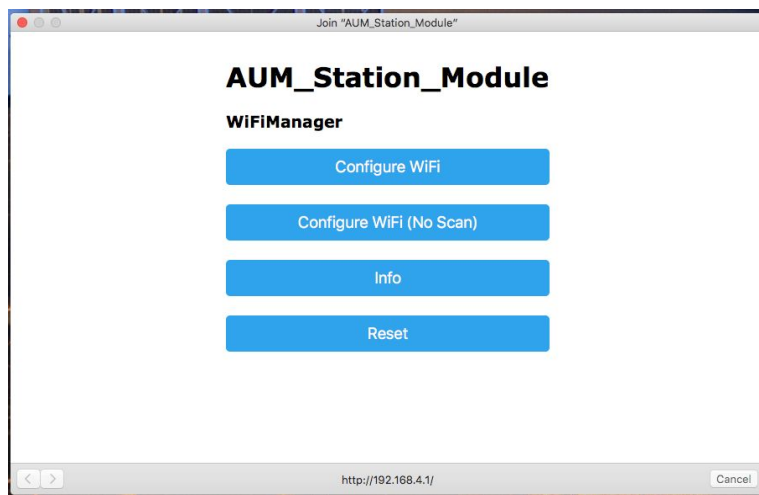
1. Start with a fresh installation of the Development Environment on the production server you wish to use.
2. Clone the AUM repository to `./aum`
3. Check out and edit `./aum/aum/settings.py` to change the following settings:
 - a. `SECRET_KEY`: Edit this to any randomly generated value. The current value is both insecure and only pseudorandom. The current value was used in the development environment and stored in the repository, every person with access to the repo has access and knowledge of that specific `secret_key`.
 - b. `ALLOWED_HOSTS`: Edit this to include your domain host entries
 - c. `DATABASES`: Edit `USER`, and `PASSWORD` with the PostgreSQL superuser information you created for your database.
4. Save and Check In `settings.py`
5. Reboot your server

If you have properly configured and installed all necessary applications, you should now be able to navigate a web browser to your management URL and begin use the AUM.

Chapter 3: The Station Module

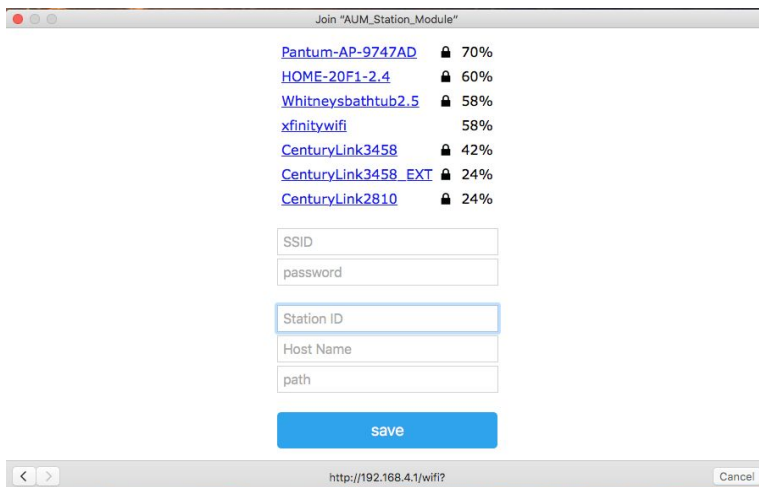
3.1 How to connect the module to the Wifi

The Station Module will automatically try to connect to the last known good Wifi. If it cannot connect, it will restart itself and set up an Access Point called AUM_Station_Module. The AP has a captive portal, so anytime you connect, you will be redirected to the config page. This mode can also be accessed at any time by holding down the “logout” button for a few seconds while cycling power or doing a reset.



Captive Portal Page

-select “Configure WiFi”



Configuration Page

-Select your network

-Fill in password

-Fill in station module ID

-Fill in host name.

Ex: aummanage.com

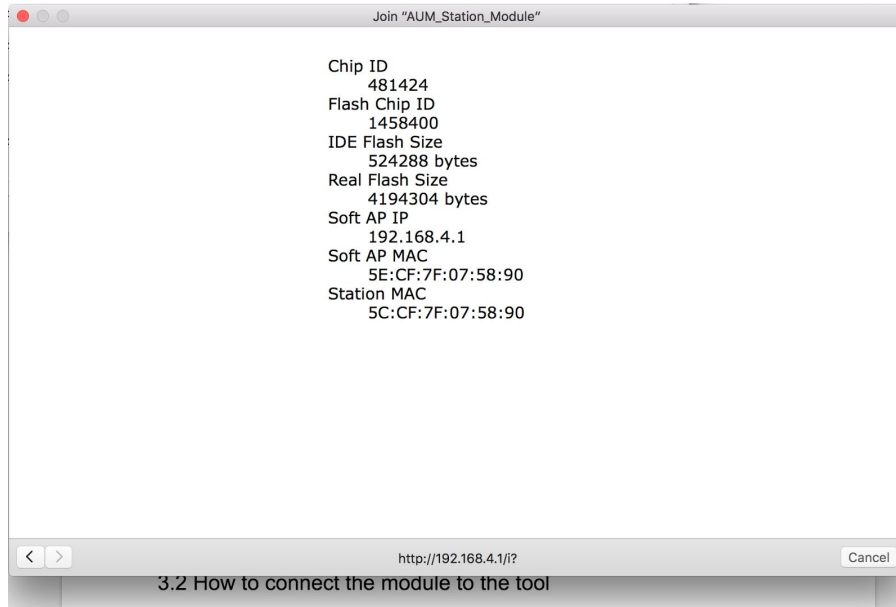
-Fill in path.

Ex: \aum

-click save and the unit will restart

If the network you are trying to connect to requires a username and a password, then you must contact the network administrator and register the station module's MAC address. Usernames and passwords are not supported on this device. To find the Station Module's MAC address:

- In the captive portal, Click on **info**. The Station MAC is listed.



For PSU: Browse to <https://intranet.pdx.edu/oit/internet-device-registration> and fill out a Internet Device Registration request.

3.2 How to connect the module to the tool

The module controls power to the tool, and therefore “access” through an external isolated relay such as the PST2. The Station Module output can only supply up to 6mA, so a low power draw relay must be used.



3.3 How to link the module to the database

- See [Adding a Station Module](#)

3.4 How to add a user to the Authorized User list for a tool

To authorize a new user with a station module:

- An authorized manager will hold the button down and scan their badge.
- A blinking green light will indicate that the new user may scan their badge.
- The Station module will link the user's RFID with the Station Module.
 - This process may take several seconds.
- When the LED returns to a solid green, the user is now authorized to use the tool.

Alternatively you may authorize the user through the User Interface, see [Adding a user to the Authorized User list](#).

3.5 How a user logs into the tool

A user logs into a tool, and thereby gains access, by swiping their badge across the RFID reader. The Station Module will beep to acknowledge that a card was read, and flash green once. After the Station Module receives a reply from the database, it will emit another beep and either show a solid green LED on the SM, and switch power to the tool on, or emit a series of beeps, and remain showing a solid red LED to indicate that the user is not on the Authorized User list.

3.6 How a user logs out of the tool

A user logs out by pressing the button on the front of the SM. If another user scans in while the tool is powered on, and they do not have authorization to use the tool, the station module will power the tool off and deny the user access to the tool.

Chapter 4: The User Interface

The User Interface is still under development. More detailed instructions will be included as part of later revisions to this document. All pages are not final and may be subject to change.

During Development, navigate to www.aummanage.com and use your credentials to login. The sidebar navigation allows you to easily flow from one task to another. Simply select the task you wish to carry out and fill in the accompanying form. After you have submitted your form, a message is displayed letting you know if your submission experienced any errors.

This is the default pages for the AUM User Interface depend on the current user's access level. Upon logging in, a User will be redirected to their profile page, if the user has Manager or higher access, they will be redirected to the "Add User" page.

For shorthand, Manager+ indicates a user that has at least Manager level access.

4.1 Site Navigation

Site Navigation as seen by a Superuser.

The site navigation sidebar allows you to jump from any page to another page. Simply click the desired destination and you will be redirected to that correct page.

- If any page is viewed by an Anonymous User or User, only "Logout" is visible.
- If any page is viewed by a Manager or Admin "Database Admin" will not be shown.
- If any page is viewed by an Owner or Superuser, all nav buttons will be shown

4.2 Users

The site will have multiple different access levels depending on internal permissions.

- The Anonymous User: This level of user is for a brand new person who has never made an account before. The level is used during the initial stages of user creation and does not require a login.
- The User: The lowest level of access. They may access their user profile and edit information contained within in.
- The Manager: The first level and most extensive of admin access. They may:
 - Add, edit, and delete users.
 - Add, edit, and delete Station Modules.
 - Add, edit, and delete Authorized User entries.
 - Run and export reports.
- The Admin: The second level of admin access. They may:
 - Perform any Manager action
 - Edit the 'is_manager' permission for a user.
- The Owner: The third level of admin access. They may:
 - Perform any Admin action.
 - Edit the 'is_admin' permission for a user.
 - Backup and Restore the AUM Database.
- The Superuser: The highest level of admin access. They may:
 - Perform any action.
 - A Superuser has every permission and every access.

4.2.1 Adding a user

The screenshot shows the 'Add User' form. On the left is a sidebar with a logo placeholder and a list of navigation links: 'Add User', 'Add Station', 'Find User', 'Find Station', 'Reports', 'Database Admin', and 'Logout'. The main form area contains the following fields:

Name	First Last Name
Badge Number	000000
Phone Number	000-000-0000
Email	vanity@email.com
Gender	Specified Gender
Current Waiver	YYYY-MM-DD
EC Name	First Last
EC Phone Number	000-000-0000
EC Relation	Relationship Specified

On the right side of the form are four buttons: 'Save', 'Make Manager', 'Make Admin', and 'Make Owner'.

Page as seen by a Superuser.

To add a user, fill in all required information, and click “Save”.

There are two paths to this page:

- For an Anonymous User, click “New User” from login page.
- For Manager+, click “Add User” from the sidebar.

Page accessibility:

- This page is not visible to a User.
- If the page is viewed by an Anonymous User or Manager, only “Save” will be visible.
- If the page is viewed by an Admin, “Make Manager” will also be visible.
- If the page is viewed by an Owner, “Make Admin” will also be visible.
- If the page is viewed by a Superuser, “Make Owner” will also be visible.

4.2.2 Editing a user

[Logo Placeholder]

Add User

Add Station

Find User

Find Station

Reports

Database Admin

Logout

Status	(User Manager Admin Owner)
Name	First Last
Badge Number	000000000
Phone Number	000-000-0000
Email	vanity@email.com
Gender	Specified Gender
Current Waiver	YYYY-MM-DD
EC Name	First Last
EC Phone Number	000-000-0000
EC Relation	Relationship Specified

Save

Make Manager

Make Admin

Make Owner

Page as seen by a Superuser.

To edit a user, fill in all required information, and click “Save”.

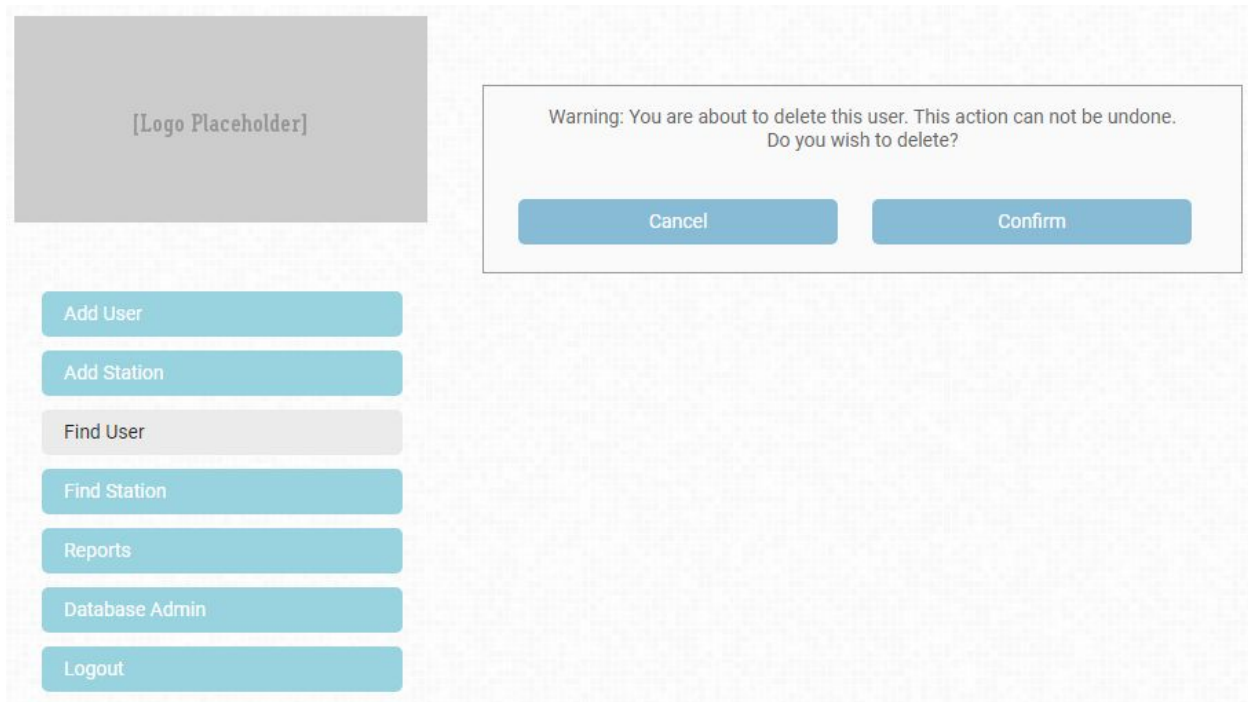
There are two paths to this page.

- For a User, press the “Edit Profile” button from their profile page.
- For a Manager+, use the sidebar to “Find User”. Once the desired user is located, press the “Edit User” button.

Page accessibility:

- This page is not visible by an Anonymous User.
- If the page is viewed by a User or Manager, only “Save” will be visible.
- If the page is viewed by an Admin, “Make Manager” will also be visible.
- If the page is viewed by an Owner, “Make Admin” will also be visible.
- If the page is viewed by a Superuser, “Make Owner” will also be visible.

4.2.3 Deleting a user



Page as seen by a Superuser.

To delete a user, click “Confirm”.

There is a single path to this page:

- Use the sidebar to “Find User”. Once the desired user is located, press the “Delete User” button.

Page accessibility:

- This page is only visible to Manager+.

4.2.4 Adding a user to the Authorized User list

Please see [Adding a user to an Authorized User list](#)

4.2.5 Searching for a User

The screenshot displays the AUM User Manual interface. On the left is a sidebar with a logo placeholder and a list of navigation buttons: 'Add User', 'Add Station', 'Find User' (highlighted), 'Find Station', 'Reports', 'Database Admin', and 'Logout'. On the right is a search form with three input fields labeled 'First Name', 'Last Name', and 'Badge ID', and a 'Search' button below them.

Page as seen by a Superuser.

To find a user, fill in all known information, and click “Search”.

There is a single path to this page:

- Use the sidebar to “Find User”.

Page accessibility:

- This page is only visible to Manager+.

4.3 Station Modules

4.3.1 Adding a Station Module

The screenshot shows a web interface for adding a station module. On the left is a sidebar with a logo placeholder and a list of navigation buttons: 'Add User', 'Add Station' (highlighted), 'Find User', 'Find Station', 'Reports', 'Database Admin', and 'Logout'. The main content area contains a form with two input fields: 'SMID' with the placeholder text 'Station Module ID' and 'Name' with the placeholder text 'Station Module Name'. A 'Save' button is located to the right of the form.

Page as seen by a Superuser.

To add a Station Module, fill in all required information, and click “Save”.

There is a single path to this page:

- Use the sidebar to “Add Station”.

Page accessibility:

- This page is only visible to Manager+.

4.3.2 Editing a Station Module

The screenshot shows a web interface for editing a station module. On the left is a sidebar with a vertical list of buttons: "Add User", "Add Station", "Find User", "Find Station" (which is highlighted in a darker blue), "Reports", "Database Admin", and "Logout". The main content area is white. At the top left of this area is a grey box labeled "[Logo Placeholder]". To the right of the logo is a form with three input fields. The first field is labeled "Name" and contains the text "ModuleNameString". The second field is labeled "SMID" and contains the text "0000000000". The third field is labeled "APDID" and contains the text "0000000000". To the right of these fields is a blue button labeled "Save".

Page as seen by a Superuser.

To edit a Station Module, fill in all required information, and click “Save”.

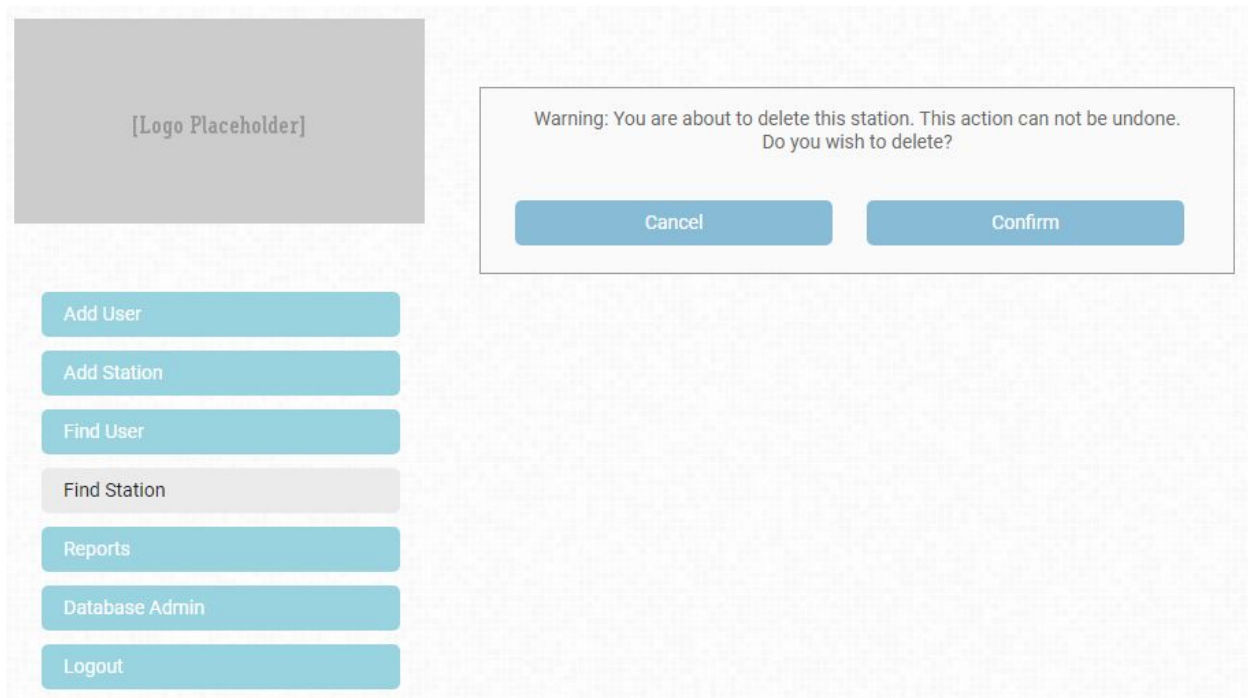
There is a single path to this page:

- Use the sidebar to “Find Station”. Once the Station Module is located, press the “Edit SM” button.

Page accessibility:

- This page is only visible to Manager+.

4.3.3 Deleting a Station Module



Page as seen by a Superuser.

To delete a Station Module, click "Confirm".

There is a single path to this page:

- Use the sidebar to "Find Station". Once the Station Module is located, press the "Delete SM" button.

Page accessibility:

- This page is only visible to Manager+.

4.3.4 Searching for a Station Module

The screenshot displays the AUM User Manual interface. On the left is a sidebar with a logo placeholder and a list of navigation links: 'Add User', 'Add Station', 'Find User', 'Find Station' (highlighted), 'Reports', 'Database Admin', and 'Logout'. On the right is a search form with a 'Station ID' input field and a 'Search' button.

Page as seen by a Superuser.

To find a station module, fill in all required information, and click “Search”.

There is a single path to this page:

- Click “Find Station” from the sidebar.

Page accessibility:

- This page is only visible to Manager+.

4.4 Authorized User Lists

4.4.1 Adding a user to an Authorized User list

[Logo Placeholder]

Station ID

User RFID

Save

Add User

Add Station

Find User

Find Station

Reports

Database Admin

Logout

Page as seen by a Superuser.

To add a user to the Authorized User list for a specific Station Module, fill in all required information, and click “Save”.

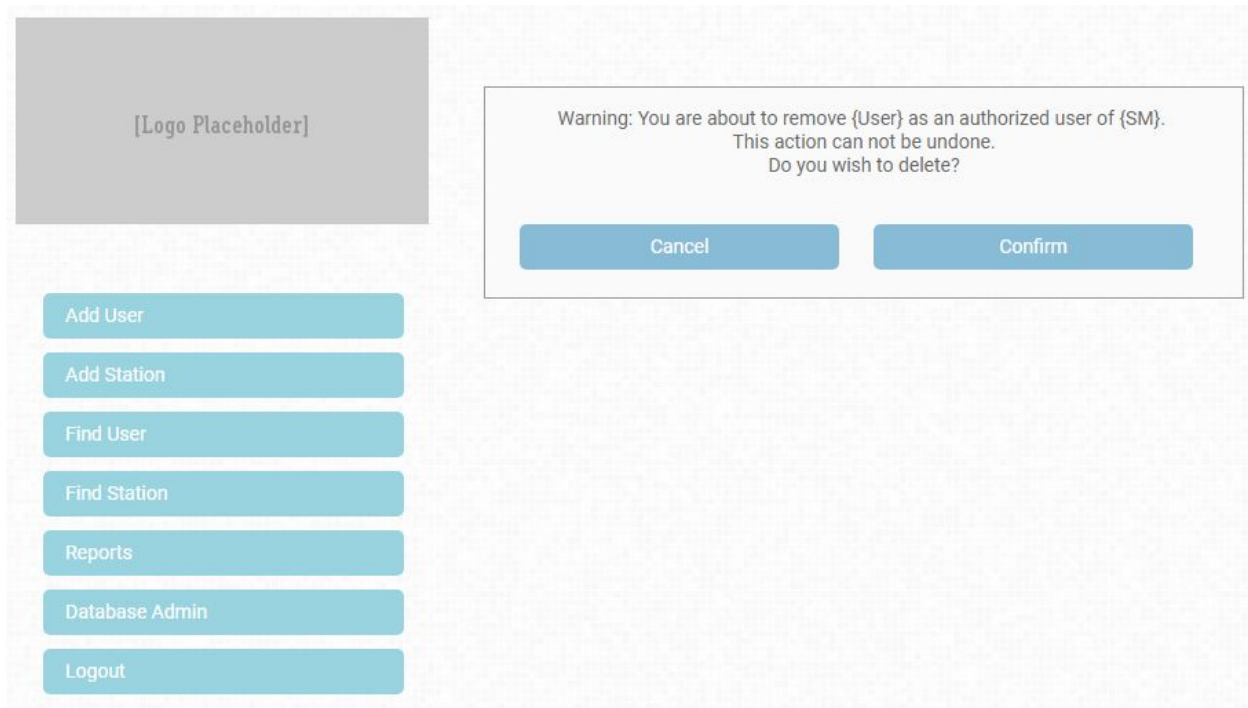
There are two paths to this page:

- From “Find User”. Search for the desired User. Once the user is located, press the “Add User to SM” button.
- From “Find Station.” Search for the desired Station Module. Once the Station Module is located, press the “Add User to SM” button.

Page accessibility:

- This page is only visible to Manager+.

4.4.2 Removing a user from an Authorized User list



Page as seen by a Superuser.

To delete a user from the Authorized User list for a specific Station Module, click "Confirm".

There are two paths to this page:

- From "Find User". Once the desired user is located, press the "Remove User from Tool" button. Enter the "Station Module ID" and press the "Remove User" button.
- From "Find Station." Once the desired Station Module is located, press the "Remove User from Tool" button. Enter the user's RFID and press the "Remove "User" button.

Page accessibility:

- This page is only visible to Manager+.

4.5 Reports

4.5.1 Running a report

Station	Name	Badge ID	Date	Usage
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00

« Previous 1 2 3 4 5 6 7 8 9 10 Next »

Page as seen by a Superuser.

To run a report, fill in all desired filter information, and click “Filter”.

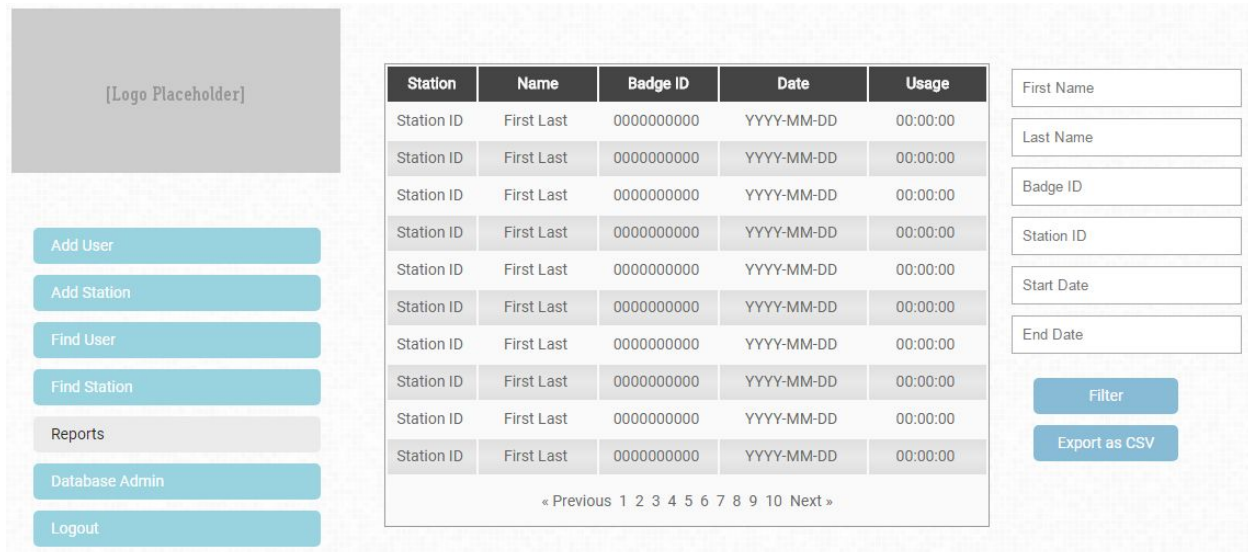
There is a single path to this page:

- Click “Reports” from the sidebar.

Page accessibility:

- This page is only visible to Manager+.

4.5.2 Exporting a report



[Logo Placeholder]

[Add User](#)
[Add Station](#)
[Find User](#)
[Find Station](#)
[Reports](#)
[Database Admin](#)
[Logout](#)

Station	Name	Badge ID	Date	Usage
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00
Station ID	First Last	0000000000	YYYY-MM-DD	00:00:00

« Previous 1 2 3 4 5 6 7 8 9 10 Next »

[Filter](#)
[Export as CSV](#)

Page as seen by a Superuser.

To export a report, fill in all desired filter information, and click “Export as CSV”. You may also click

“Export as CSV” from any filtered report display page.

There are two paths to this page:

- Click “Reports” from the sidebar.
- Click “Reports” from the sidebar. Then click “Filter”.

Page accessibility:

- This page is only visible to Manager+.

4.5.3 Report Examples

Use By Station Module

The screenshot displays the 'Use By Station Module' report interface. On the left is a sidebar with a logo placeholder and a list of navigation buttons: Add User, Add Station, Find User, Find Station, Reports (highlighted), Database Admin, and Logout. The main content area contains a table with the following data:

Name	Badge ID	Date	Usage
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00

Below the table is a pagination control: « Previous 1 2 3 4 5 6 7 8 9 10 Next ».

On the right side of the report, there are filter fields for Station Name and Station ID, and an 'Export as CSV' button.

Page as seen by a Superuser.

This report displays the specific usage for a given Station Module.

Page accessibility:

- This page is only visible to Manager+.

Use by User

The screenshot shows the 'Use by User' report interface. On the left is a sidebar with buttons: Add User, Add Station, Find User, Find Station, Reports (highlighted), Database Admin, and Logout. The main area contains a table with columns Station, Date, and Usage. The table has 10 rows of data, each showing 'Station ID', a date in 'YYYY-MM-DD' format, and a time in '00:00:00' format. Below the table is a pagination bar: « Previous 1 2 3 4 5 6 7 8 9 10 Next ». On the right, there is a search section with input fields for First Name and Last Name, and an 'Export as CSV' button.

Page as seen by a Superuser.

This report displays the specific usage for a given User.

Page accessibility:

- This page is only visible to Manager+.

Use by Date

The screenshot shows the 'Use by Date' report interface. On the left is a sidebar with a logo placeholder and navigation links: Add User, Add Station, Find User, Find Station, Reports (highlighted), Database Admin, and Logout. The main content area features a table with columns Name, SMID, Date, and Usage. The table contains 10 rows of data, each with 'First Last' as the name, '0000000000' as the SMID, 'YYYY-MM-DD' as the date, and '00:00:00' as the usage. Below the table is a pagination control: « Previous 1 2 3 4 5 6 7 8 9 10 Next ». On the right, there are input fields for Start Date and End Date, and a button labeled 'Export as CSV'.

Name	SMID	Date	Usage
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00

Page as seen by a Superuser.

This report displays the specific usage for a given Date range.

Page accessibility:

- This page is only visible to Manager+.

Use by User and Station Module

The screenshot shows a web interface for a report titled "Use by User and Station Module". On the left is a sidebar with a logo placeholder and several navigation buttons: "Add User", "Add Station", "Find User", "Find Station", "Reports" (highlighted), "Database Admin", and "Logout". The main content area contains a table with two columns: "Date" and "Usage". The table has 10 rows of data, each showing a date in "YYYY-MM-DD" format and a usage time of "00:00:00". Below the table is a pagination control: "« Previous 1 2 3 4 5 6 7 8 9 10 Next »". To the right of the table is a panel with two input fields for "Station Name" (First Name) and "Station ID" (Last Name), and a blue button labeled "Export as CSV".

Date	Usage
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00

« Previous 1 2 3 4 5 6 7 8 9 10 Next »

Station Name: First Name
Station ID: Last Name
Export as CSV

Page as seen by a Superuser.

This report displays the specific usage for a given User and Station Module.

Page accessibility:

- This page is only visible to Manager+.

Use by Station Module and Date

[Logo Placeholder]

Add User
Add Station
Find User
Find Station
Reports
Database Admin
Logout

Date	Usage
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
YYYY-MM-DD	00:00:00
« Previous 1 2 3 4 5 6 7 8 9 10 Next »	

Station Name
Station ID
Start Date
End Date
Export as CSV

Page as seen by a Superuser.

This report displays the specific usage for a given Station Module and Date range.

Page accessibility:

- This page is only visible to Manager+.

Use by User and Date

The screenshot shows the 'Use by User and Date' report interface. On the left is a sidebar with a logo placeholder and several navigation buttons: 'Add User', 'Add Station', 'Find User', 'Find Station', 'Reports' (highlighted), 'Database Admin', and 'Logout'. The main area contains a table with the following data:

Name	Badge ID	Date	Usage
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00
First Last	0000000000	YYYY-MM-DD	00:00:00

Below the table is a pagination control: « Previous 1 2 3 4 5 6 7 8 9 10 Next ». To the right of the table is a filter panel with two input fields: 'Full Name' and 'Badge ID', and two date range pickers: 'Start Date' and 'End Date'. Below these is an 'Export as CSV' button.

Page as seen by a Superuser.

This report displays the specific usage for a given User and Date range.

Page accessibility:

- This page is only visible to Manager+.

Use by User, Station Module, and Date

[Logo Placeholder]

Add User

Add Station

Find User

Find Station

Reports

Database Admin

Logout

Station	Date	Usage
Station ID	YYYY-MM-DD	00:00:00
Station ID	YYYY-MM-DD	00:00:00
Station ID	YYYY-MM-DD	00:00:00
Station ID	YYYY-MM-DD	00:00:00
Station ID	YYYY-MM-DD	00:00:00
Station ID	YYYY-MM-DD	00:00:00
Station ID	YYYY-MM-DD	00:00:00
Station ID	YYYY-MM-DD	00:00:00
Station ID	YYYY-MM-DD	00:00:00
Station ID	YYYY-MM-DD	00:00:00

Full Name

Badge ID

Station Name

Station ID

Start Date

End Date

Export as CSV

Page as seen by a Superuser.

This report displays the specific usage for a given User, Station Module, and Date range.

- Page accessibility:
- This page is only visible to Manager+.

4.6 Database Administration

4.6.1 Backup Database

Page as seen by a Superuser.

The database backup feature has not been implemented yet.

Page accessibility:

- This page is only visible to Owner and Superuser.

4.6.2 Restore Database

Page as seen by a Superuser.

The database restore feature has not been implemented yet.

Page accessibility:

- This page is only visible to Owner and Superuser.