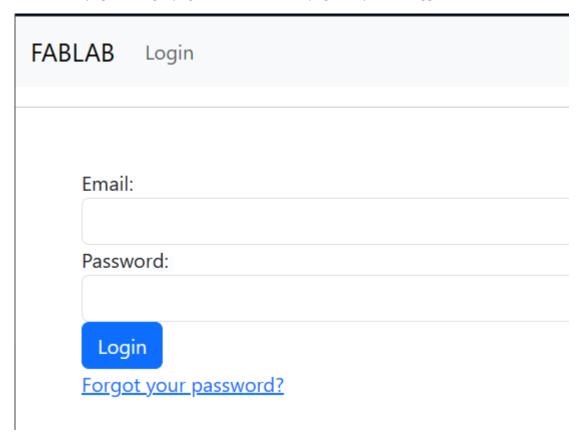
Authentication

The default page is a login page and all other site pages requires a logged-on user.



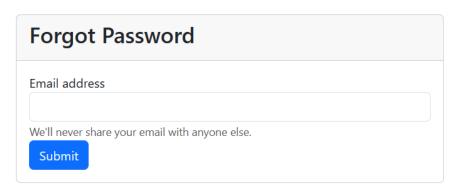
Only users with email address and rôle « Can Admin backend » flag can log on.

Default user at install is:

- Login: admin@fablab.org

- Password : admin

In case an admin forgets the email, the forgot password will send an email with a unique link valid for 20 minutes to reset the password.



Menu

This is the view for logged users:

FABLAB Users Machines Authorizations Maintenance Interventions History Roles Machine types Logout

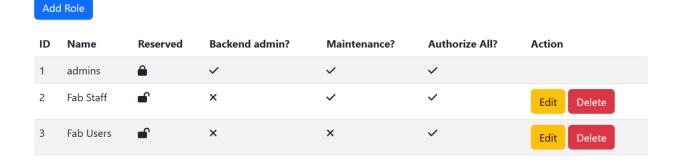
Roles

This is to configure user priviledge levels.

View

Roles

This system page configures the possible role of the users



Maintenance = The user can perform maintenance by tapping the card on machine board

Authorize all = User can use any machine in any state. This also bypasses the authorization. This can be useful in an initial phase where all fablab users can use any machine in any state.

Backend admin = User can logon to the backend web interface with its email address. On first access, he needs to receive first a new password by an admin with the Users page.

Reserved = Roles that cannot be deleted.

Add new role

Add Role

Role Name:		
Can admin backend		
Can perform maintenance		
Authorize all		
Add Role		

See Roles page for flag description.

Edit existing role

Edit Role

Lait Noic		
Role Name:		
Fab Staff		
System reserved		
Can admin backend		
✓ Can perform maintenance		
✓ Super user		
Update Role		

Users

Users are identified by their RFID card ID. There is no strong authentication of RFID cards in the Arduino board, only chip ID read.

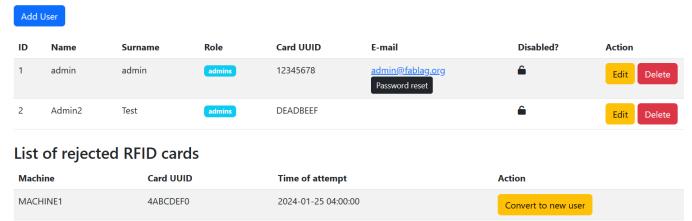
View

This page shows the users and unrecognized RFID tags, and allows several actions:

- Adding new users, editing/disabling them. A disabled user cannot perform any action on the machines, but can still logon to the interface
- Deleting users. In this case the user cannot logon to the webbackend.
- Convert a badge to a new user: this is mainly to simplify the initial database creation where the fablab users may not be registered. Once the user is created, the corresponding rejected RFID card records will be purged.

Users

List of machines and web interface users



Convert to new user

2024-01-10 04:00:00

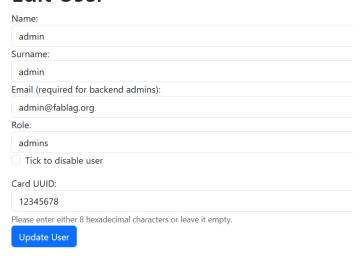
Edit existing user

MACHINE1

This allows to change user rôle, name, email or card UUID.

1ABCDEF2

Edit User



Add new user

This page is reached by « Add User » button or « Convert to new user » button on the main page.

Add User



Please note:

- <u>Card</u> UUID is displayed on the arduino LCD when tapping an unknown card.
- When converting a unknown card, the Card UUID field is automatically filled

Machines

This is the list of machines. Every machine has a unique ID. The Arduino Board is uniquely linked to a machine thanks to the ID field.

View machines

Machines

Use this page to view and configure FabLab machines.



Description:

- Cumulated usage: hours of power on by users. This is not reset.
- Maintenance plan: list of maintenance procedures to be applied to the machine
- Last seen: when an arduino board has last trasmitted the status of the machine.

View History button: view the latest uses of the machine

Edit machine

Allows to change machine attributes. The machine name is acquired by the arduino board every minute in case of changes.

Blocked for all: this blocks any user to log on the machine except for user having « authorize all » rôle priviledge.

Edit Machine



Add machine

Same as Edit Screen.

Add Machine

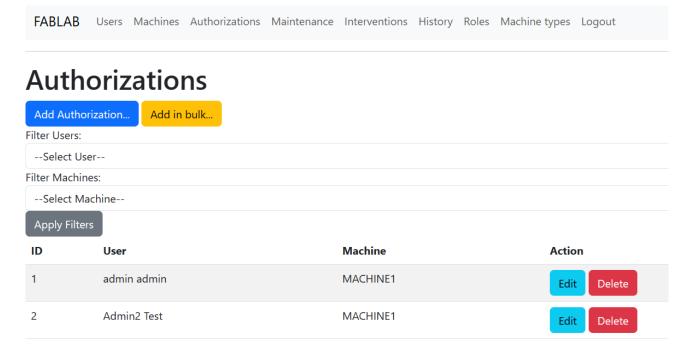


Authorizations

Authorizations maps users to machines. If a user belongs to a rôle with «Authorize all », the authorizations list is ignored. This can be useful if the FabLab does not want to implement authorization for fab users.

View authorizations

The list of authorization by machine and users can be filtered.



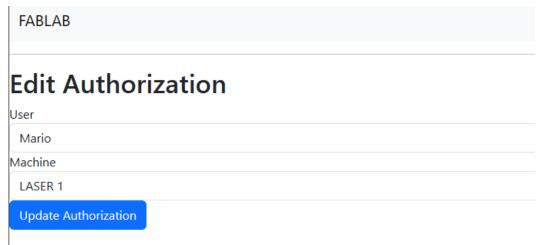
Description:

- Add Authorization: to add a record for a single user on a single machine
- Add in buil: to quickly add authorizations for many users on a single machine

Add authorization



Edit authorization



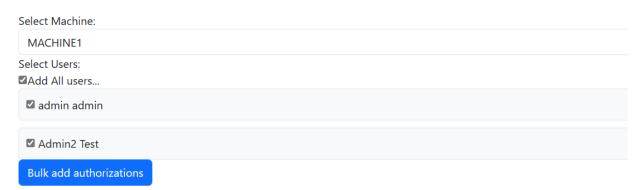
Add in bulk

Use this screen to add permissions. To remove permissions, you have to use the main screen Delete button.

First select the machine, then the users or the « Add all users.. » button.

Bulk Authorization

Only the checked users will be authorized for the chosen machines. Unselected users will keep their current authorizations.



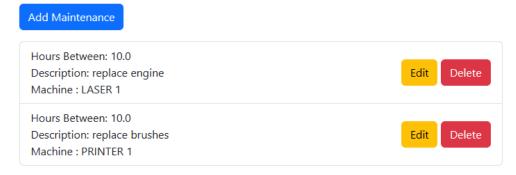
Maintenance

This is for regular maintenance which shall be triggered every X hours of use.

View

Maintenances

This system page configures the possible maintenances actions of the machines



Edit

Edit Maintenance



Add new maintenance

Add Maintenance

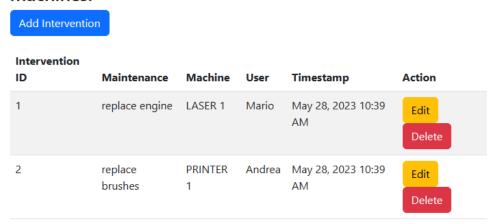


Interventions

View

Interventions

This is the list of performed maintenance actions on the machines.



Add manually

Interventions will be created automatically by tapping the card on the machine board, but can be added manually if the maintenance was done ofline.

Add Intervention



Edit interventions

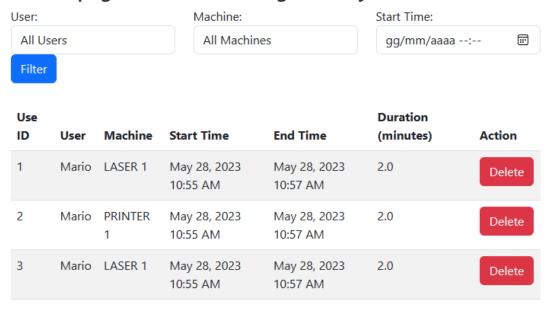
FABLAB

Edit Intervention



Usage History

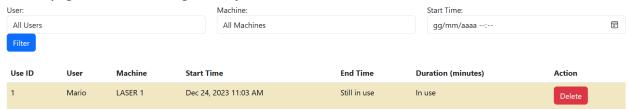
Search page for machine usage history



If a machine is in use, row is highlighted:

Usage History

Search page for machine usage history



Machine types

Add Machine Type

View

Machine Types

This page defines the categories of machines in the LAB.

ID	Machine type	Auto-logoff	Action
1	LASER	1000 min	Edit Delete
2	3D PRINTER	disabled	Edit Delete
3	DRILL	1440 min	Edit Delete

Description:

- Auto logoff delay: if a user remains active more than X minutes on the machine, the arduino board will log him off. When set to 0, there is no log-off.

Add/Edit

Edit Machine Type

Type Name				
LASER				
Auto-logoff delay				
(minutes)				
1000				
Submit				

Technical details

- https://github.com/fablab-bergamo/rfid-backend
- Flask python application + MQTT client

TODO/MISSING

PDF upload for maintenance procedures