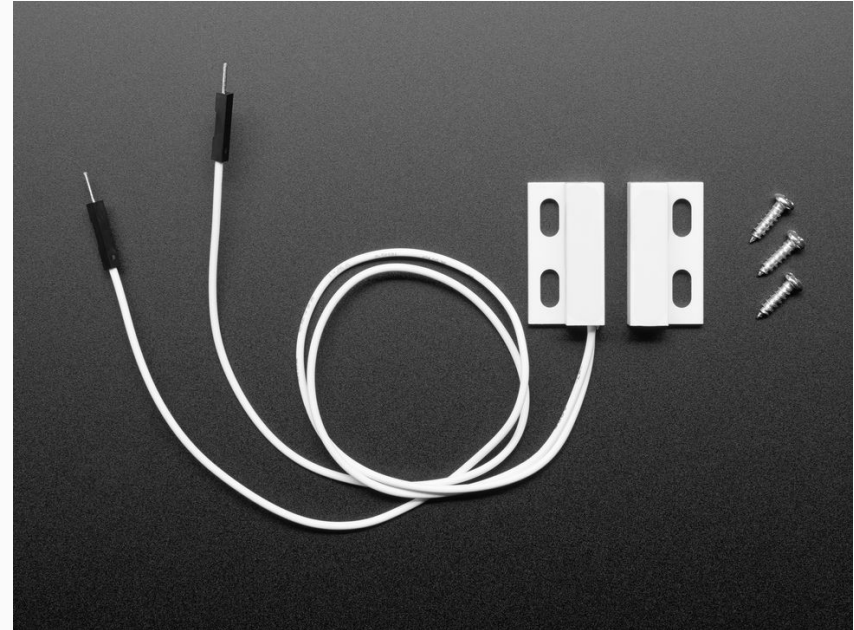


Fabrication and Prototyping in the LearningLab

Idea Proposal

Check the status of the door

- Magnetic contact switch
- Arduino checking the status



How to actually open the door?

- Not covered
- Will mock the trigger using a separate arduino's led just for this (e.g. when the led blinks, the door is supposed to open)

Things to Consider

- What if the door is not opened automatically?

Server

- Server running on a Raspberry Pi
 - Connects to Arduino 1
 - to check the status of the door
 - to open the door
 - Users + Non-Existing Users can connect to it in order to
 - log in/request access
 - open door
 - user type specific actions

Giving Access

- 2 groups of users
 - Admins
 - who can grant/revoke access
 - Regular users
 - cannot grant/revoke access

Non-Existing User

- Page accessible for everyone in the network to request access
- Must have @unifr.ch email

Admin User

- Page accessible only by admins for managing access
- Grant access to @unifr.ch users that request it
 - Email confirmation

Extensions

- Statistics for space usage
 - e.g. when/how often a user X accesses the space
- Live data of the usage (i.e. how many people are at a given point in time)
 - Requires users to log out
 - Need to be accessed from outside the network

Thank you!