Fabrication & Prototyping

Project idea

Connected door lock

- Authentication on server that connect to lock/unlock a door
- Oriented on the door/physical side

Some precedent

- Arduino Auto-Locking door
- Home automation using Keypad
- Arduino based Auto Door unlock control system by Android mobile through Bluetooth and Wi-Fi

Technical challenges

- Manual override (security)
- State option (door open/close, lock on/off, day/time, ...)

Potential technology candidates

- Arduino
- MQTT with server
- Motor + 3D printing for the lock
- Light or contact sensor

Project decomposition in milestones

- 1. Detecting door state
 - a. Door position
 - b. Lock position
- 2. Motorised lock
 - a. Opening and closing
- 3. Manual override
 - a. Normal exit
 - b. In case of emergency