

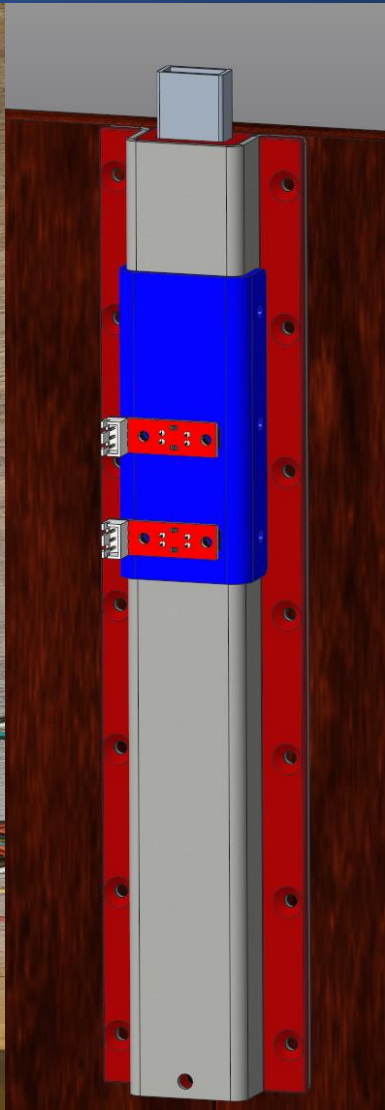
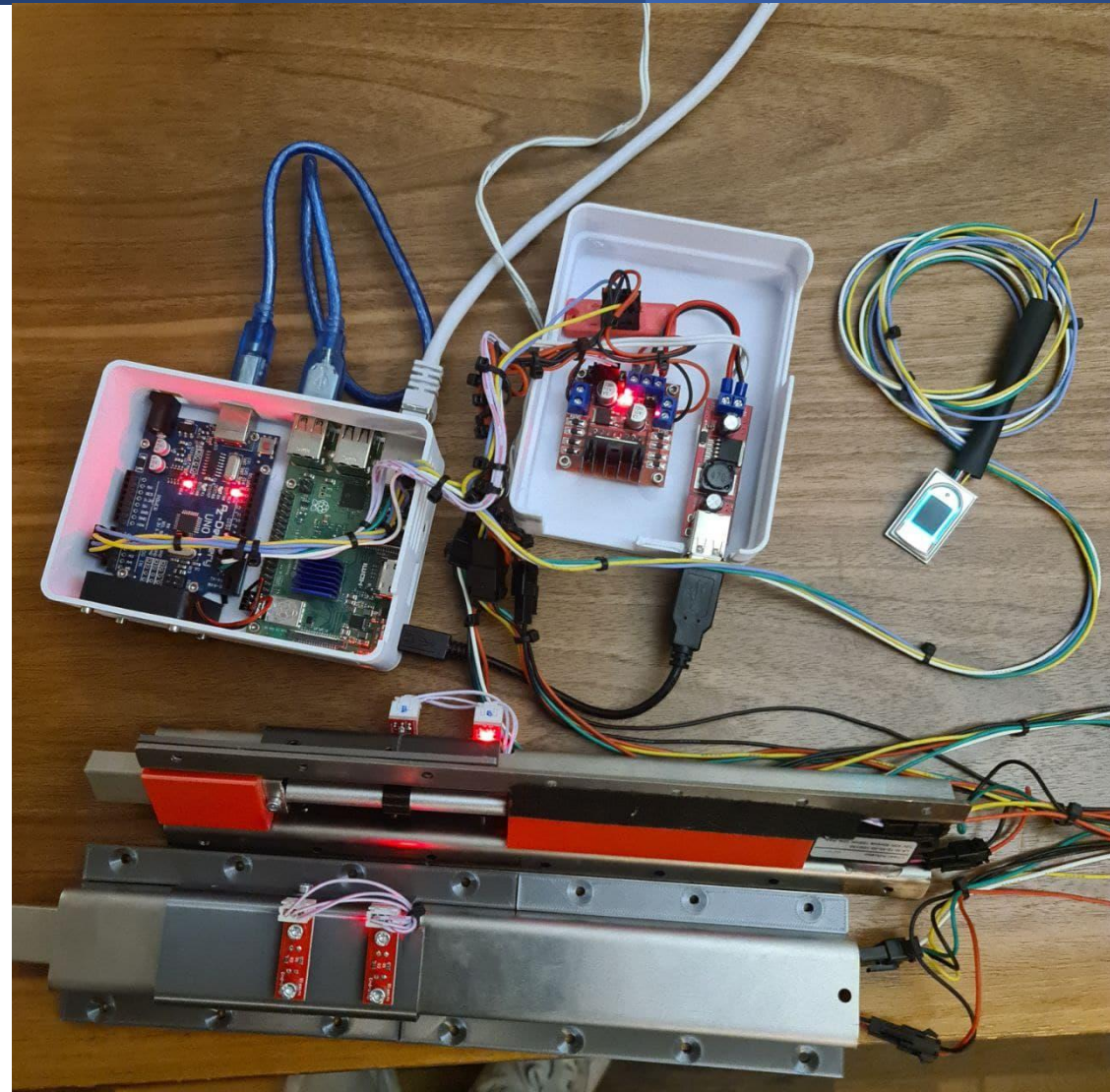
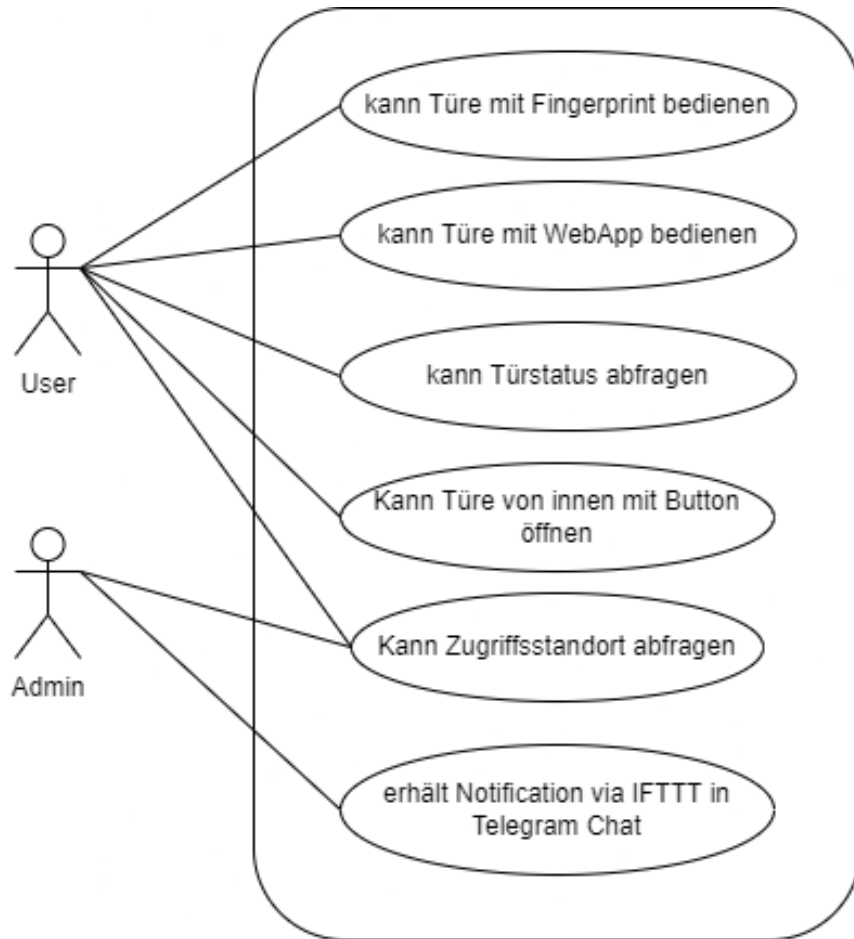


Remote Door Control

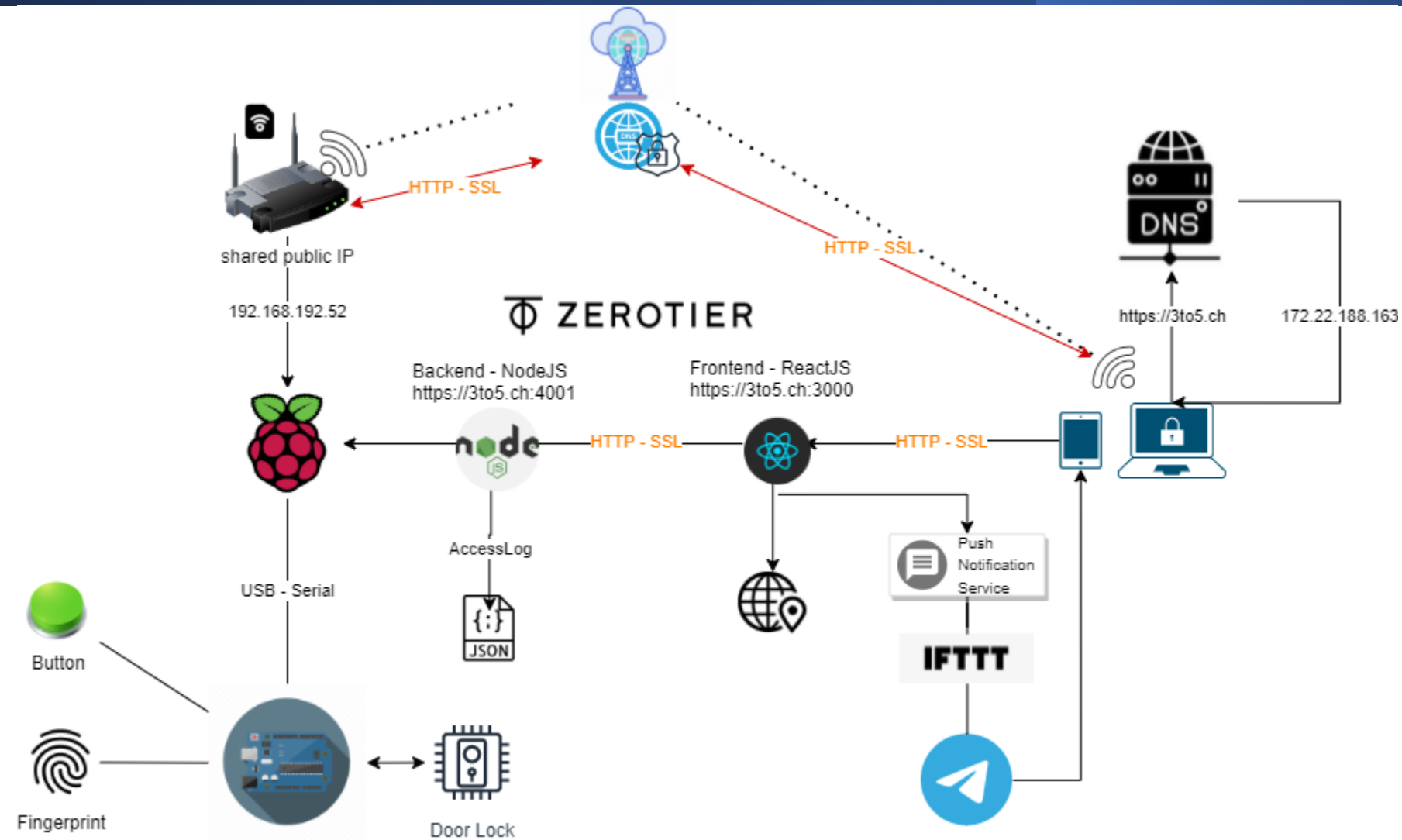
Sebastian Fernandez

Christian Wernli

Use Case



Reference Model



Interface Docs

- Backend API <https://3to5.ch:4001/api/docs> (only over VPN)

HOST	Verb	Ressourcen	Description
3to5.ch	POST	/api/door	moves door motors
	GET	/api/status	return the motor state (e.g open / close)
	GET	/api/total_operations	Return the
	GET	/api/total_access	Returns the amount of door open / closed
	GET	/api/total_locations	Return a list of accessed locations (Fingerprint & Browser)
	POST	/api/location	Adds access location to DB

- Serial USB
 - (npm packagename: @serialport, portName:/dev/ttyUSB0, baudRate:9600, dataBits:8, stopBits:1)

Issues und Herausforderungen

- Wie kann die Lösung abgesichert werden
 - ZerotrustVPN, DoorControl nur möglich wenn GPS aktiviert ist
 - SSL für alle Endpunkte
- Türstatus (Bolzenstatus) sync
 - Endstops (optisch)
 - Alles verkabeln
- Let's encrypt SSL-Zertifikate für privaten IP-range (e.g. Zerotrust VPN)

Demo



<https://www.youtube.com/watch?v=CA1w-btZIAM>

<https://youtu.be/5wwKeLx9Ajc>