## **Smart Locker**

SSYS 18-19

https://smartlocker.gitbook.io/

Jarno Cools Oussama Es-Salhi Imad El-Azzouzi Afaq Mughal

### Taakverdeling

Projectmanager: Jarno

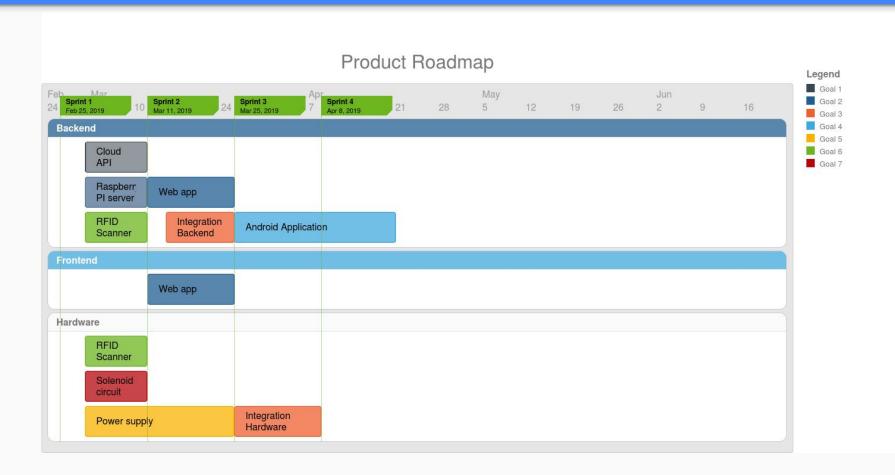
Backend: Oussama

Front-end: Imad

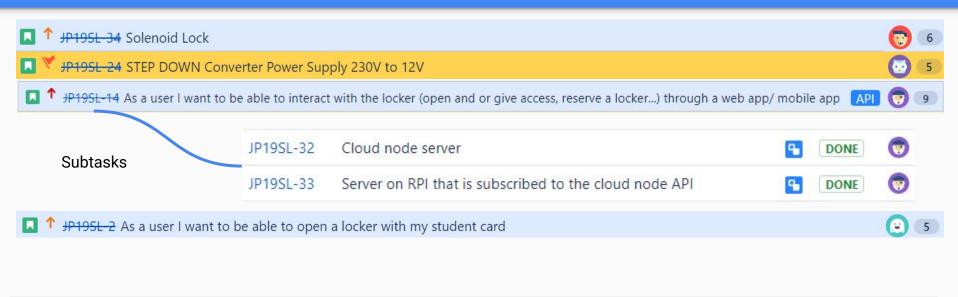
Hardware: Afaq

# Analyse

#### Roadmap



#### Jira





### Technologieën

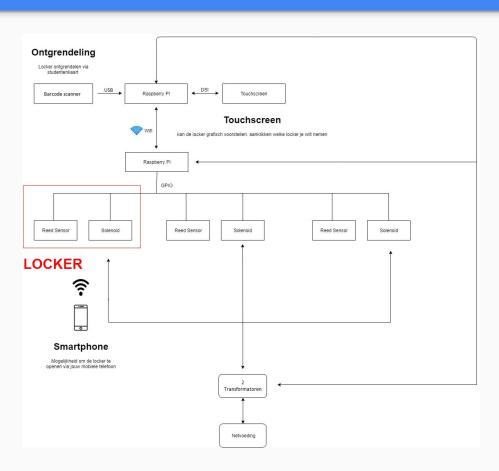








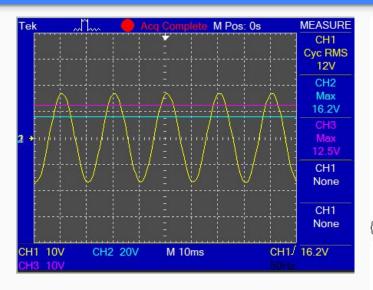
#### Hardware

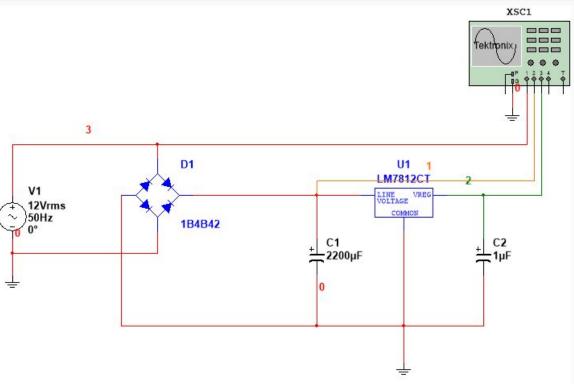


#### Specificatie tabel

Specificatie tabel			
Blok	Specificatie	Min	Max
Elektronisch slot	Werkspanning	9V	12V
	Stroom	500mA(9V)	650mA(12V)
	Totale stroom(8 lockers)	4A	5.2A
Reed sensor	Switching spanning	6V	200V
	Stroom	10mA	1.25A
Raspberry PI 3B+	Spanning	5V	5.1V
	Stroom	1.25 A	3 A

#### Simulatie





#### Meting

#### 230V AC - 24V/12VAC



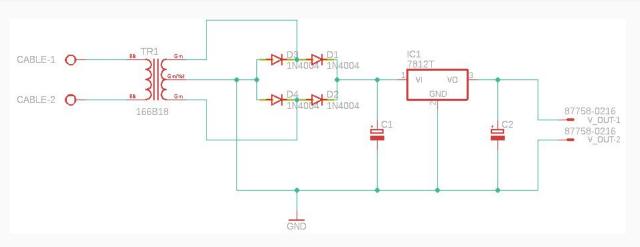
#### Na diodebrug

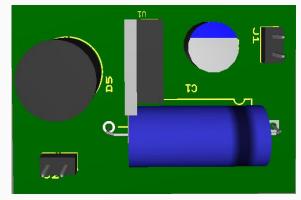


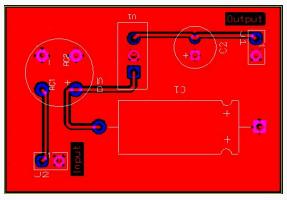


Output

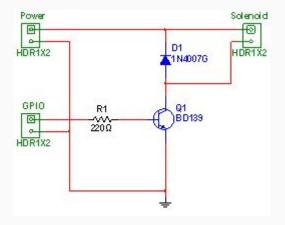
#### Actuator schakeling

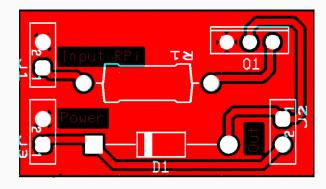




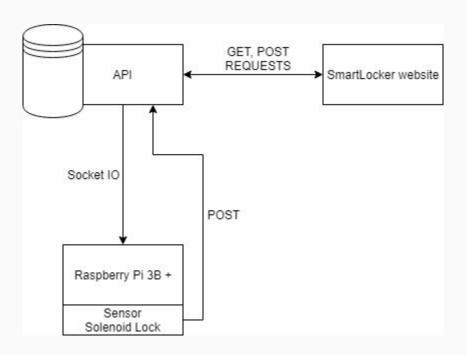


#### Actuator schakeling





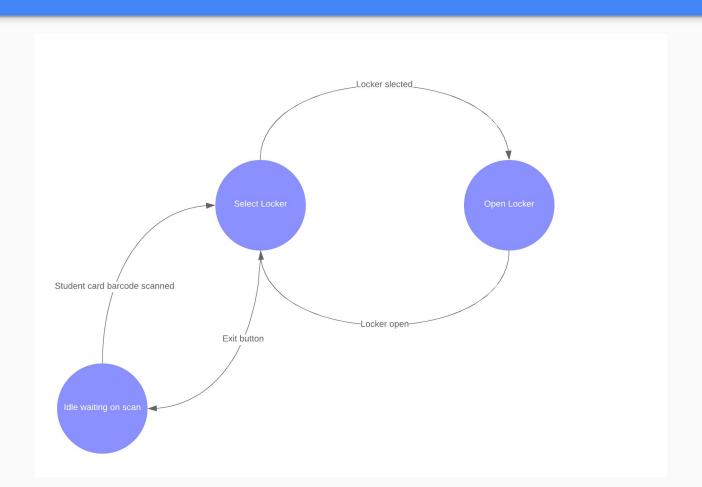
#### Software



#### Data In- en Outputs

Data In	Data Uit	
API calls*	Digital Out	
API calls*	API calls*	
12 V	nvt.	
nvt.	Digital HIGH/LOW	
	API calls*  API calls*	API calls* Digital Out  API calls* API calls*  12 V nvt.

#### Software



## Issues

### Security API

Authentication

Oplossing: Token

### Authentication application

User accounts maken in verbinding met de active directory van school.

Dashboard voor Administrator.

# Uitbreidingen

### Uitbreidingen

Payment methode

NFC van smartphone om locker te openen

Ipv barcodescanner een rfid reader

## Demo

https://youtu.be/qA96WcUJMaM