

Team TexWiller

Team members:

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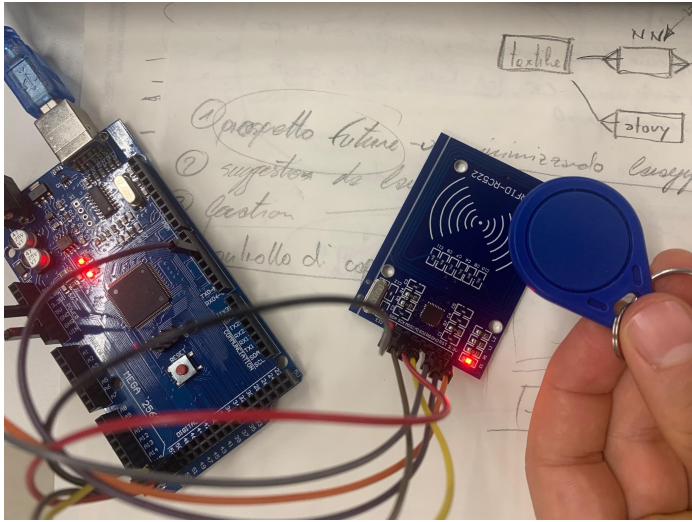
Challenge

SÜDBUND

Tasks

1. State the **location** of each object (curtains, carpets...) and help in this way to find it or place it.
2. Create an **object history** that helps the user understand the work to do and give suggestions based on set priorities.
3. **Warn the user** when filling a washing machine if the object can't be washed with the program chosen.
4. **Optimize** the washing routine

Prototype based on RFIDs



Every different RFID is identified by a reader and sends its id to a database where all the informations about it are stored.

Here begins the second part of the program...

Arduino & Python

Managing Data & Program

MYSQL

1. **Database** that stores all informations about RFIDs, hypothetically inserted by the Artisan.
2. **Program** warning the user while filling the washing machine if a curtain can't be washed with the other previously inserted.



Mobile App

Read or write informations about a curtain



Achieved!



1. Every legal and useful **tag**
 - a. Name, ID, Producer, Washing Properties, Location, Composition, Weight, Owner, MADE IN, CE, Description.
2. **When** and with which garment was it washed
3. **Optimized** washing **routine**
4. Smart washing **error detection**



Convincing Hotels



Industry 4.0 infrastructure (IoT)

1. Optimized **washing routine**
 - a. Clothes to-be-washed with the same washing properties
 - b. Quantity and Type of dirty laundry (number, kg)
2. Clean laundry **warehouse** availability
3. **Tracking** the 'history' and the location of each cloth

Pricing

Name	Price per unit	Quantity	Total Price
RFIDs	0,1	200	20
Reader	150	3	450
Writer (Application)	free	1	
Reader Installation	150	1	150
RFID application and writing (on old laundry/clothes)	0,3	200	60
Database mainainance	50	1	50 per year
Total			730 €
Total + IVA			890,6 €

Thanks for
your
Attention

