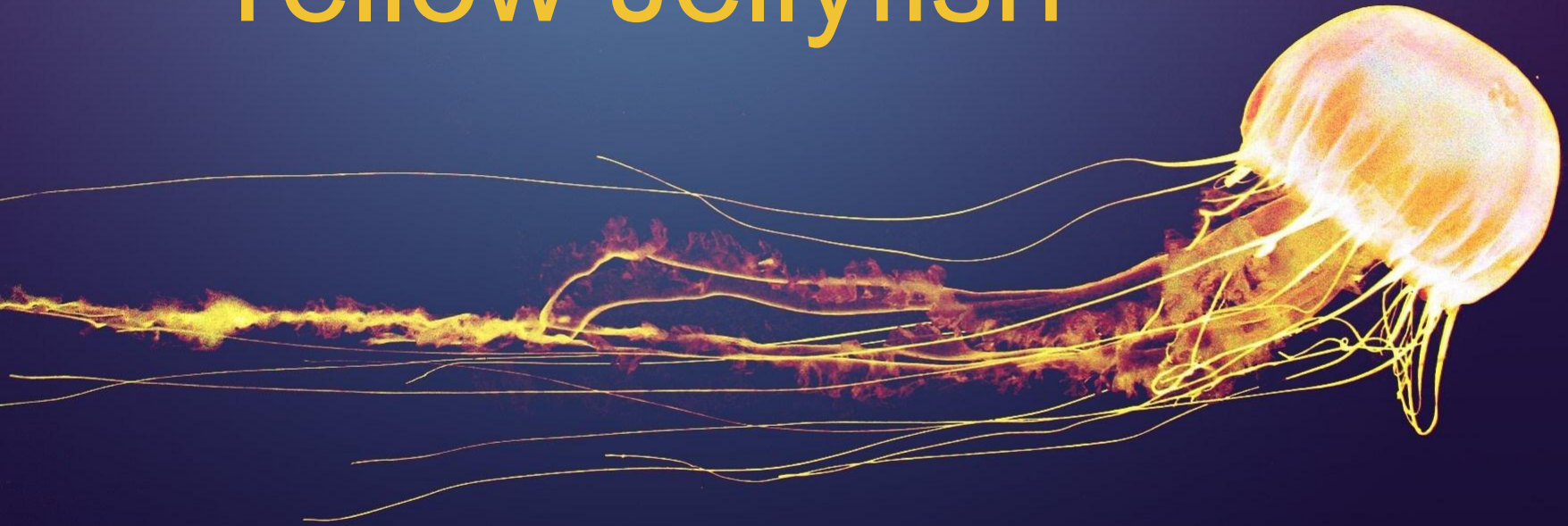


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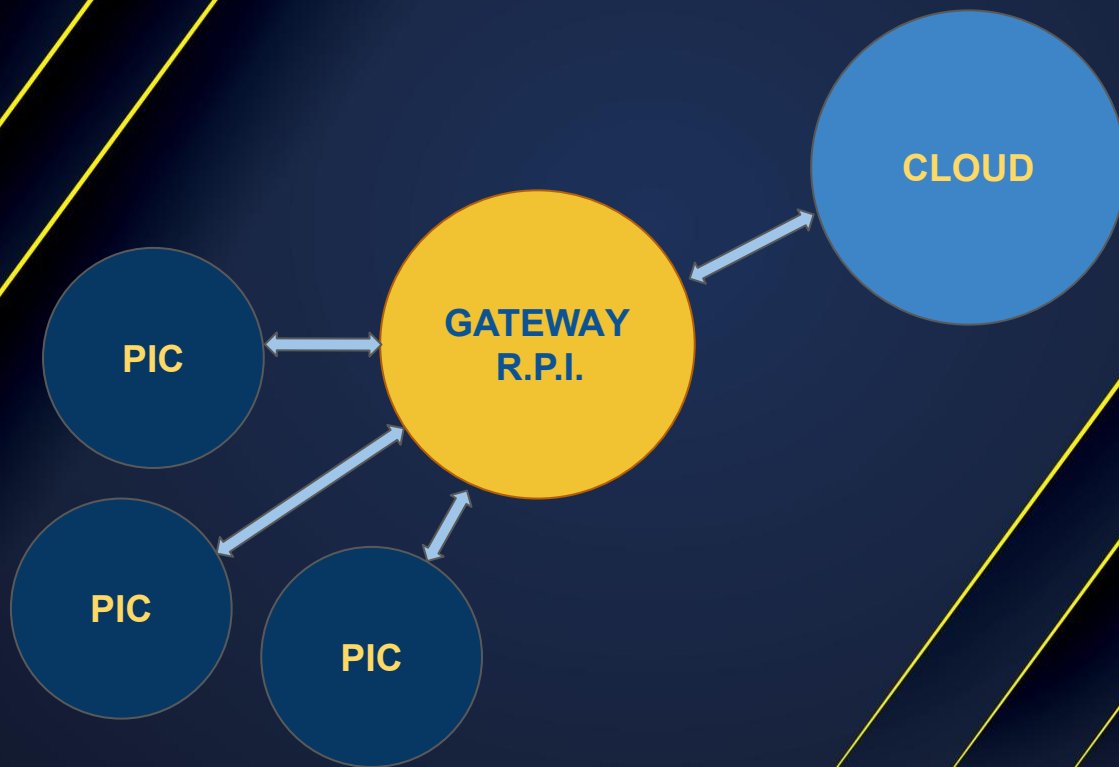


Francesco Marion, Mattia Ros, Davide Viotto, Simone Zoppelletto

LA RICHIESTA

Realizzazione di un sistema di gestione e controllo dello stato di porte e condizioni climatiche dei vagoni di un treno.

LA SOLUZIONE



LE COMPONENTI

CLOUD

- WebApp - Razor pages
- MQTT Protocol - Hivemq
- MongoDB
- Telegram Bot

GATEWAY R.P.I.

- Display Python TKinter
 - Python as binder
 - Redis

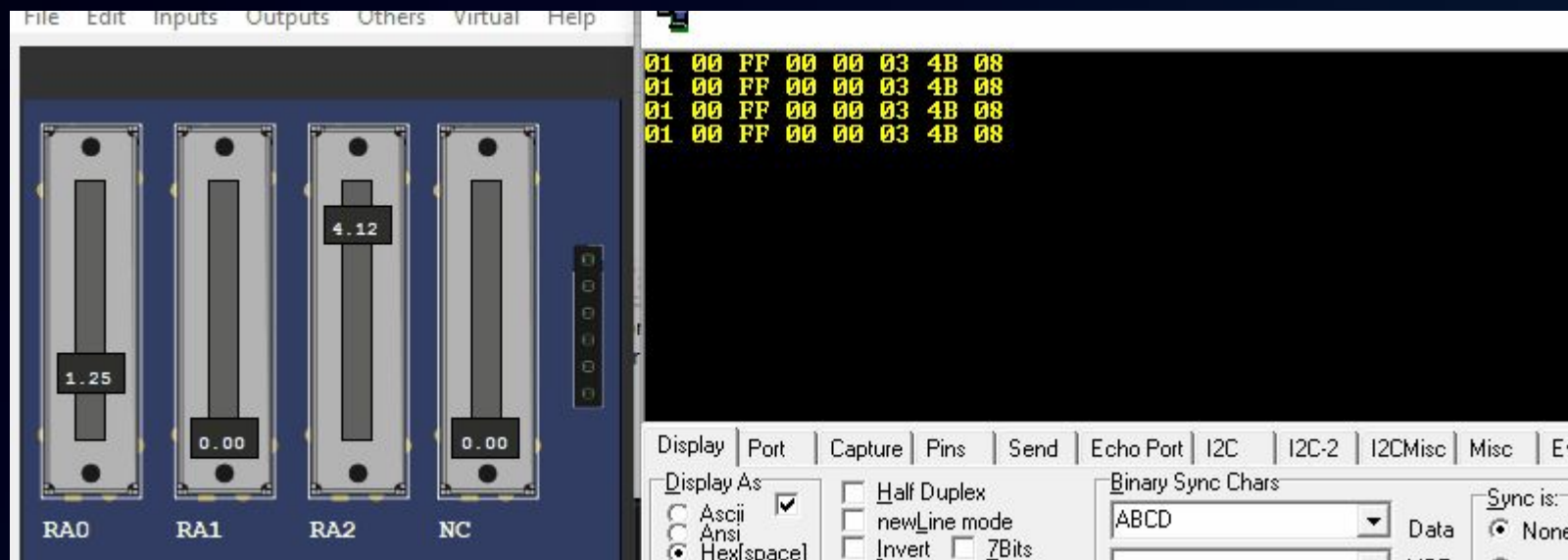
PIC

- C
- LCD Display Menu

Pic Microcontroller

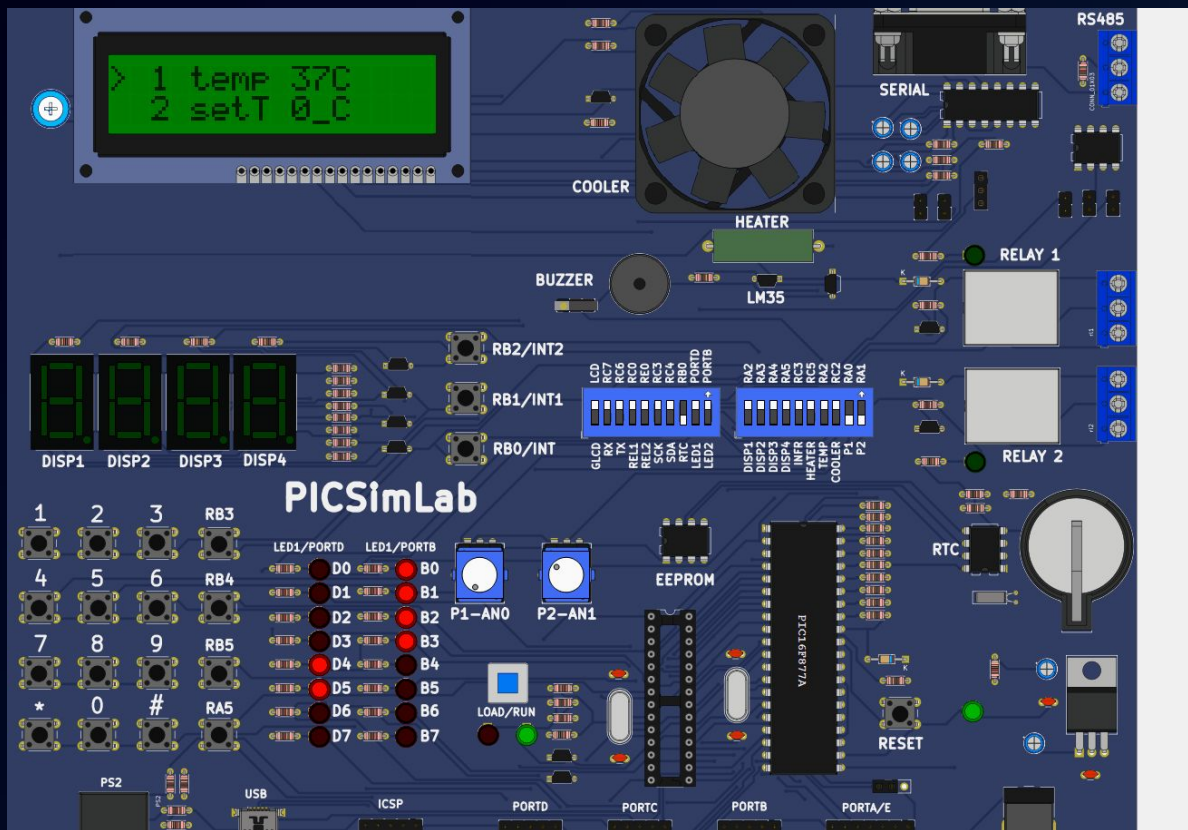


PIC Serial Port



0	1	2	3	4	5	6	7
Wagon ID	Temperature		Humidity		Smoke Sensor		Doors

PIC Display Simulation



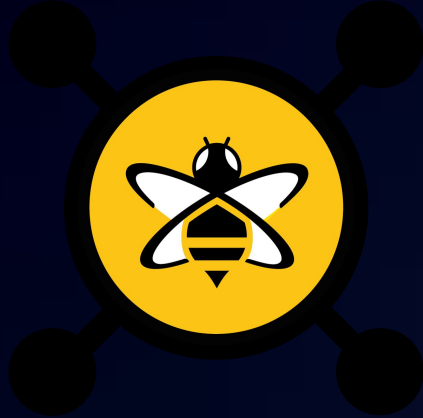
RPI Technologies



RPI User Interface

treno

CLOUD - MQTT PROTOCOL




CLOUD - User Interface

Login - Train Project Work

localhost:44305/Index?handler=Logout

TrainProjectWork

Login



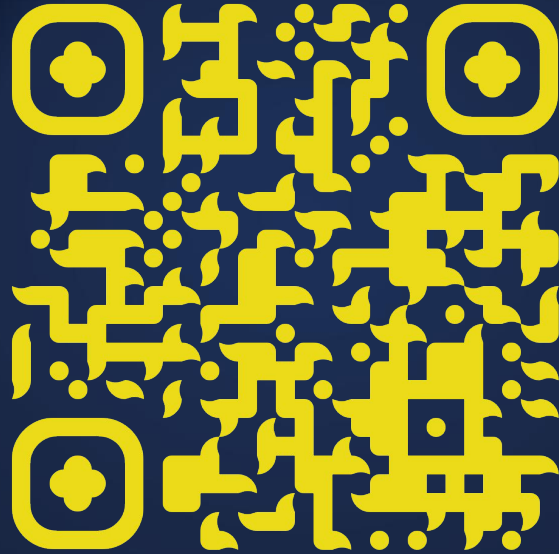
Username:

Password:

Login

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REPO GITHUB



GRAZIE !!!