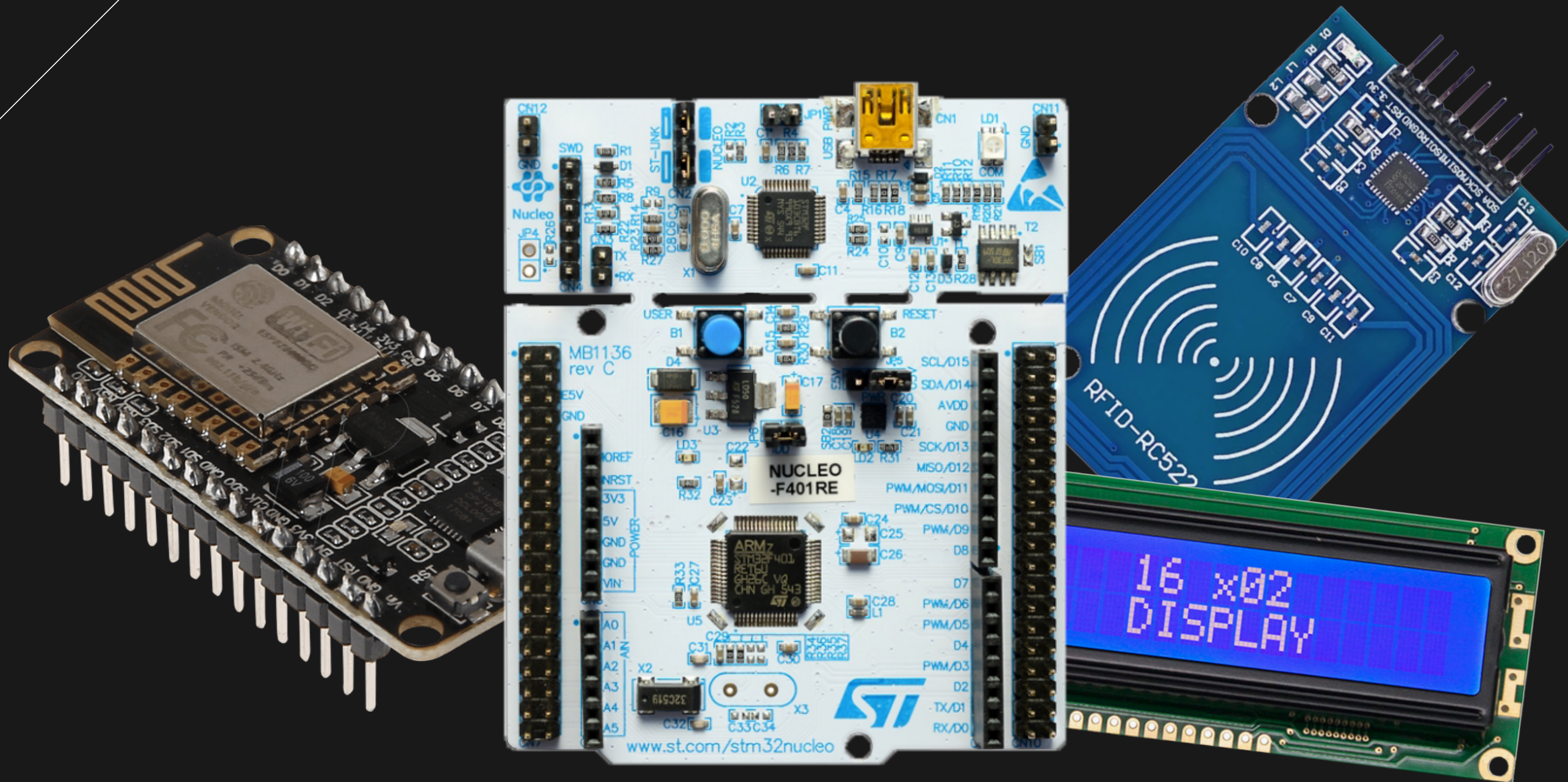


2110366 EMBEDDED SYS LAB

ROOM CAPACITY LIMITER

The check-in system using NFC, RFID Card

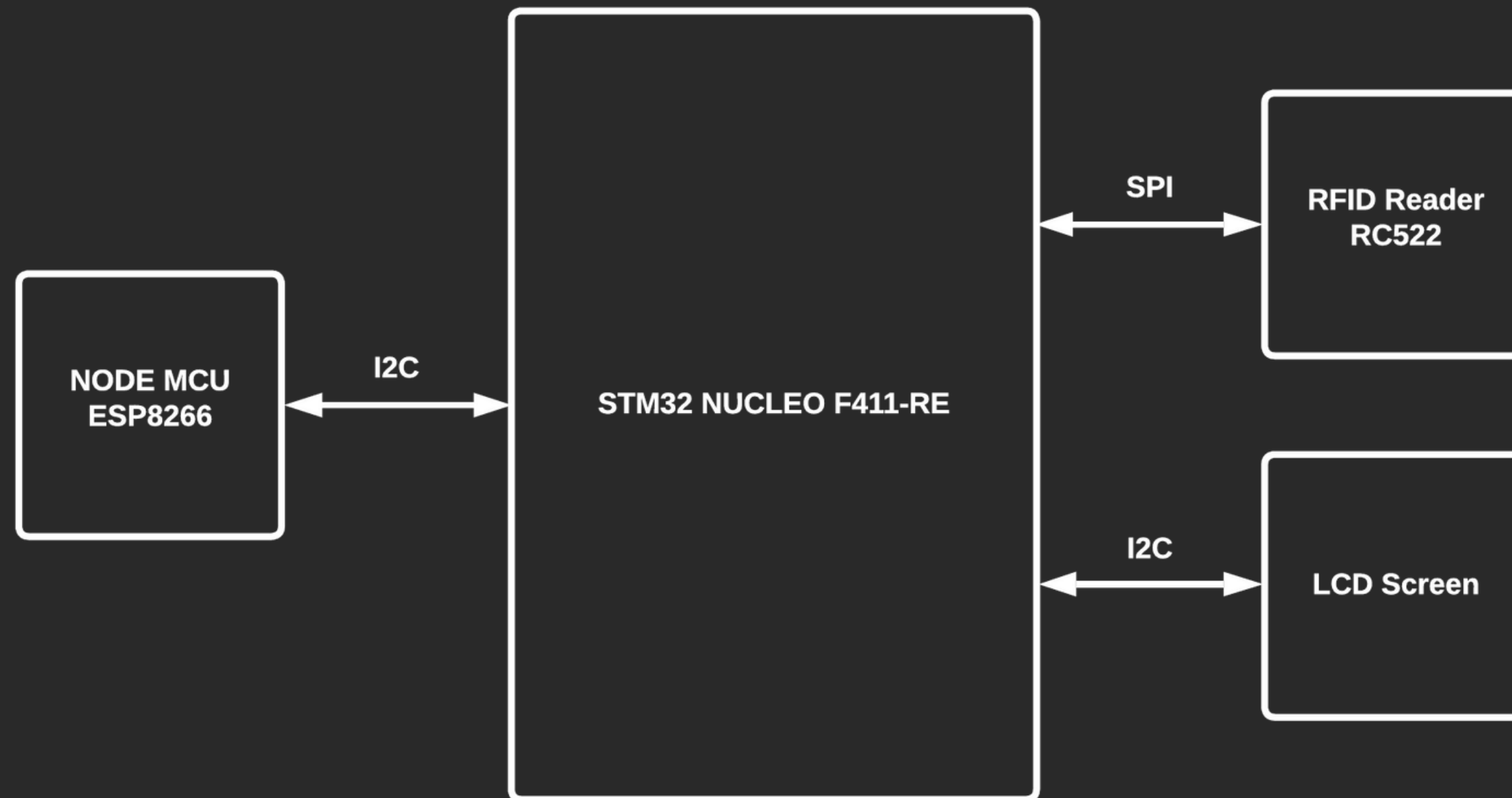


The hardware we use

ESP8266, STM32 NUCLEO F411-RE, LCD Display, RFID-RC522

DIAGRAM

How we connect the things.



WORKING STEPS

»» **User touch the card to the sensor**

RFID Card Reader will send the UID of the card to STM32 Board through SPI protocol

»» **STM32 send the data to NODE MCU**

UID of the card will send through I2C protocol to NODE MCU

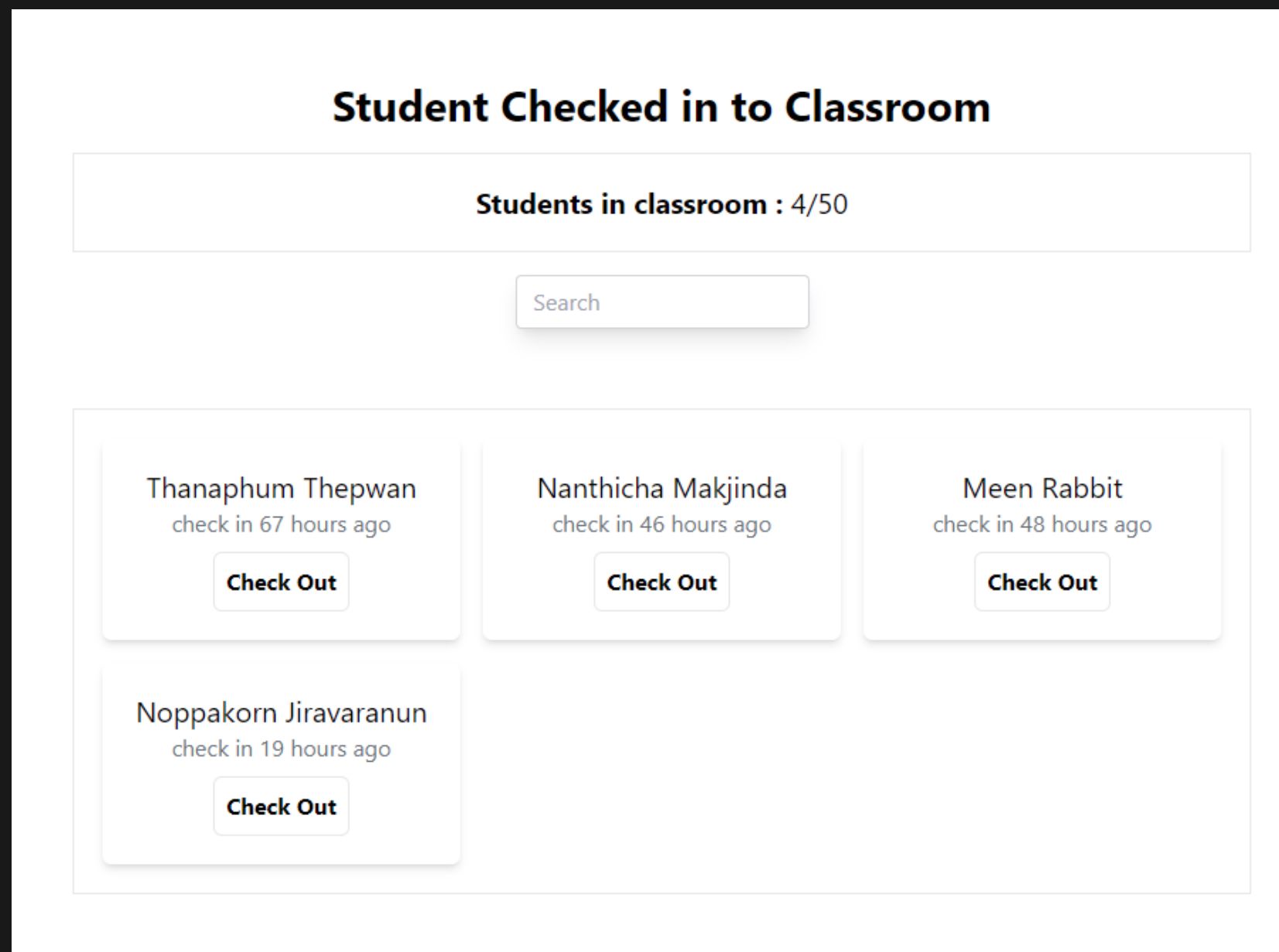
»» **NODE MCU send UID of the card to find the user's data in Database**

»» **Database respond the request then send the user's data back to NODE MCU and send it to the the STM32 Board**

»» **STM32 Board will display the user's data using LCD screen**

ON THE WEBSITE

<https://embedded-project.vercel.app/>



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Display the information of the people in the room.

Details like check-in time, name, amount of people in the room are displayed here.

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