# 2nd Iteration

## Change card reading method

Text

Description automatically generated

Using (<https://github.com/nmcc1212/rfid2/blob/d627b2f2af4d4ee86963e30932556b7870d28e62/1st%20try.py>) for reading cards didn’t work, now using SimpleMFRC522

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## Reader object

A screen shot of a computer

Description automatically generated with low confidence

A reader object was missing

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## Error handling if RFID UID was not in the database

Text

Description automatically generated

Didn’t handle error if the RFID UID was not in the database, fixed using an if statement to detect if anything was returned by the querry

if result:

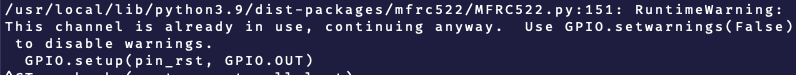
return result[0]

else:

return None

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## GPIO clean up at exit



The GPIO pins showed as still in use after closing and relaunching the program fixed by adding the “atexit” library which runs a predefined script (GPIO.cleanup) when the program exits

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## Create a check to see if the card is in the database



It looks as if the script works even though the card is not in the database, fixed by checking if None is returned, if it is printing an Error and then exiting



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## Add card to database manually

Now I added the RFID card to the DB manually, using the following SQL command

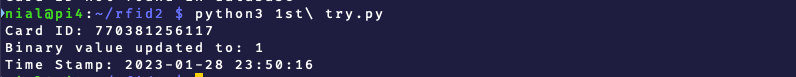
*INSERT INTO rfid2.card\_states (card\_id, binary\_value, timestamp) VALUES (770381256117, 0, "2023-01-01 00:00:00");*

Images of 2nd iteration (adding users manually )

A screenshot of a computer

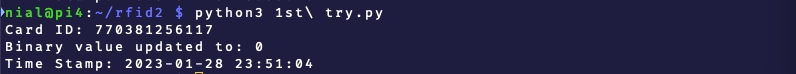
Description automatically generated with low confidence

The card has just been added



The card has been tappedText

Description automatically generated with medium confidence

This is now reflected in the database

Again, the card has been tappedGraphical user interface, text

Description automatically generated with medium confidence

Again, reflected in the database