U1
MAX9814

5	AR
4	OUT
3	G
2	V+
1	GND

+5V

LED1
Indicator LED

+5V

U2
ARDUINO UNO COPY

ARDUINO UNO

NC
IOREF
RESET
3V
5V
GND2
GND1
VIN

+5V

14/A0/PC0
15/A1/PC1
16/A2/PC2
17/A3/PC3
18/A4/PC4/SDA
19/A5/PC5/SCL

SCL
SDA
AREF
GND
SCK/PB5/13
MISO/PB4/12
MOSI/PWR/PB3/11
SS/PWR/PB2/10
PWR/PB1/9
PB0/8

PD7/7
PWR/PD6/6
PWR/PD5/5
PD4/4
INT1/PWR/PD3/3
INT0/PD2/2
TX/PD1/1
RX/PD0/0

SW1
Toggle Switch

+5V

1
3
2

U3
PowerSupplyMB102

MB102
PowerSupply

5V

3.3V

5	VCC2	VCC1	1
6	GND	GND	2
7	VCC2	VCC1	3
8	GND	GND	4

9V Battery Holder

D1
WS2812b

3	+5V
2	Dout
1	Gnd

+5V

TITLE: Hardware Interfacing Case Study

REV: 1.0

EasyEDA

Company: Hogeschool Rotterdam

Sheet: 1/1

Date: 2024-03-25   Drawn By: Mohammed Amin