

Schematic Explanation

- There are four components shown in the schematic: The STM32 Blue Pill board, the RFID-RC522 module, the SSD1306 OLED Display and the buzzer.
- The microcontroller communicates with the RFID-RC522 module via the microcontroller's SPI1, therefore the RC522's pins SS, SCK, MOSI, MISO are connected to the microcontroller's PA4, PA5, PA7 and PA6 respectively.
- The microcontroller communicates with the SSD1306 OLED via I2C1, therefore the SSD1306's pins SCL, SDA are connected to the microcontroller's PB6, PB7 respectively.
- The buzzer is connected to the microcontroller's PA9.
- All components use the operating voltage of 3.3V.