JOY-PI



Schematic diagram

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The data lines from the modules supplied with 5 V are converted to 3 V or 5 V using a logic level converter. 5٧ 5V 3v3 GND **GND** GND SDA SDA **SDA** 7-Segment LCD **Light Sensor** SCL SCL SCL MCP23008 BH1750FVI HT16K33 3v3 5٧ **GND** MOSI MOSI **GND RFID LED Matrix SCLK SCLK** MFRC522 MAX7219CWG MISO CS GPIO8 CS GPIO7 5V **GND** Ultrasonic Trig. GPIO 16 HCSR04 Echo GPĮO 12 ROW 1 **GND** ROW 2 GND GND Motion **Button Matrix** ROW 3 5V 5V IR-Receiver GPIO 20 LHI778 GPIO 23 ROW 4 5٧ GND GND **GPIO 37** 5V Buzzer **DHT 11** GND **GPIO 18** GPIO 4 **GPIO 33** down GPIO 22 **Buttons** left GPIO 35 GND right 5V Tilt **GND** Tilt Touch GPIO 17 5V STEP 1 5V Step Motor STEP 2 GND GND ULN2003D 5V Sound STEP 3 **GND** Relay GPIO 24 LM393A STEP 4 **GPIO 21** GPIO 27 GPIO 27 ROW 1 Vibration 5V GND GPIO 22 GPIO 22 Tilt ROW 2 SERVO 1 STEP 1 GPIO 5 ROW 3 GPIO 5 SERVO 1 ROW 4 STEP 2 GPIO 6 GPIO 6 Switch 1 Switch 2 COL 1 **GPIO 13 GPIO 13** STEP 3 5V GPIO 19 COL 2 STEP 4 **GPIO 19 GND** GPIO 26 COL 3 GPIO 26 SERVO 1 SERVO 2 SERVO 2 GPIO 25 COL 4 GPIO 25 SERVO 2