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#include <Wire.h>
#include <RTC.h>

static DS1307 RTC;
#include "SevSeg.h"
SevSeg sevseg; //Instantiate a seven segment controller object

unsigned long bth = 0, btm = 0, bty = 0, btmo = 0, btd = 0, timer = millis();
int hrs_plus , min_plus , day_plus , mon_plus , yrs_plus ;
String hr, mi, dy, mo, yr;

String SDIGIT;

void setup() {
    RTC.begin();

    byte numDigits = 8;
    byte digitPins[] = {11, 10, 9, 8, 12, 13, A0, A1};
    byte segmentPins[] = {1, 2, 5, 6, 3, 4, 7, 0};
    bool resistorsOnSegments = false; // 'false' means resistors are on digit pins
    byte hardwareConfig = COMMON_CATHODE; // See README.md for options
    bool updateWithDelays = false; // Default 'false' is Recommended
    bool leadingZeros = false; // Use 'true' if you'd like to keep the leading zeros
    bool disableDecPoint = true; // Use 'true' if your decimal point doesn't exist or
    isn't connected

    sevseg.begin(hardwareConfig, numDigits, digitPins, segmentPins,
resistorsOnSegments,
        updateWithDelays, leadingZeros, disableDecPoint);
    sevseg.setBrightness(90);

    pinMode(hrs_plus, INPUT);
    pinMode(min_plus, INPUT);
    pinMode(day_plus, INPUT);
    pinMode(mon_plus, INPUT);
    pinMode(yrs_plus, INPUT);

}

void loop() {

    if (millis() > timer) {
        timer = millis() + 1000;
        getAndDisplay();
    }
}

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sevseg.refreshDisplay();
//
// if (digitalRead(hrs_plus) == HIGH && millis() < bth) {
//     bth = millis() + 500;
//     GetDateStuff(Year, Month, Date, Hour, Minute);
//     clock.setHour(Hour);
// }
// if (digitalRead(min_plus) == HIGH && millis() < btm) {
//     btm = millis() + 500;
//     GetDateStuff(Year, Month, Date, Hour, Minute);
//     clock.setMinute(Minute);
// }
// if (digitalRead(day_plus) == HIGH && millis() < btd) {
//     btd = millis() + 500;
//     GetDateStuff(Year, Month, Date, Hour, Minute);
//     clock.setDate(Date);
// }
// if (digitalRead(mon_plus) == HIGH && millis() < btmo) {
//     btmo = millis() + 500;
//     GetDateStuff(Year, Month, Date, Hour, Minute);
//     clock.setMonth(Month);
// }
// if (digitalRead(yrs_plus) == HIGH && millis() < bty) {
//     bty = millis() + 500;
//     GetDateStuff(Year, Month, Date, Hour, Minute);
//     clock.setYear(Year);
// }
}

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void getAndDisplay() {
    hr = String (RTC.getHours());
    mi = String (RTC.getMinutes());
    dy = String (RTC.getDay());
    mo = String (RTC.getMonth());
    yr = String (RTC.getYear());
    String yyr = yr.substring (2, 3);
    String yyr2 = yr.substring (3, 4);
    yr = yyr + yyr2;
    if (hr == "0") {
        hr = "00";
    }
    else if (hr.toInt() < 10) {
        hr = "0" + hr;
    }
    if (mi == "0") {

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    mi = "00";
}
else if (mi.toInt() < 10) {
    mi = "0" + mi;
}
if (dy == "0") {
    dy = "00";
}
else if (dy.toInt() < 10) {
    dy = "0" + dy;
}
if (mo == "0") {
    mo = "00";
}
else if (mo.toInt() < 10) {
    mo = "0" + mo;
}
if (yr == "0") {
    yr = "00";
}
SDIGIT = hr + mi + dy + mo;
sevseg.setNumber(SDIGIT.toInt());
}
```