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// ViewController.m
// testBluetoothConnection
//
// Created by 王權 on 13/8/12.
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#import "ViewController.h"
#define sensorTag [CBUUID UUIDWithString:@"f000aa00-0451-4000
   b000-00000000000000"]
#define IR Temp Service [CBUUID UUIDWithString:@"f000aa00-0451-4000
   b000-00000000000000"1
#define IR_Temp_Char [CBUUID UUIDWithString:@"f000aa01-0451-4000
   b000-00000000000000"1
@interface ViewController () <CBCentralManagerDelegate,
   CBPeripheralManagerDelegate>
@property (strong. nonatomic) CBCentralManager * centralManager;
@property (strong, nonatomic) NSMutableArray * nPeripherals;
@end
@implementation ViewController
(void)viewDidLoad
{
    [super viewDidLoad];
   // Do any additional setup after loading the view, typically from a nib.
    centralManager = [[CBCentralManager alloc]initWithDelegate:self queue:nil
       1;
    _nPeripherals = [NSMutableArray new];
   NSLog(@"viewDidLoad finish");
}

    (void)didReceiveMemoryWarning

{
    [super didReceiveMemoryWarning]:
    // Dispose of any resources that can be recreated.
}
#pragma mark - Central Manager delegate methods
- (void)centralManagerDidUpdateState:(CBCentralManager *)central{
    if (central.state == CBCentralManagerStatePoweredOn) {
        [self.centralManager scanForPeripheralsWithServices:nil options:nil]:
       NSLog(@"scanForPeripheralsWithServices");
   }
   else{
        [self.nPeripherals removeAllObjects];
       NSLog(@"nPeripherals objects all removed");
    NSLog(@"centralManagerDidUpdateState finish");
- (void)centralManager:(CBCentralManager *)central didDiscoverPeripheral:
    (CBPeripheral *)peripheral advertisementData: (NSDictionary *)
   advertisementData RSSI:(NSNumber *)RSSI{
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NSLog(@"didDiscoverPeripheral");
    if(![self.nPeripherals containsObject:peripheral]){
        [self.nPeripherals addObject:peripheral];
        NSLog(@"Discovered potential peripheral %@", peripheral);
        [self.centralManager connectPeripheral:peripheral options:nil]:
    }
- (void)centralManager:(CBCentralManager *)central didFailToConnectPeripheral:
    (CBPeripheral *)peripheral error: (NSError *)error{
    NSLog(@"Failed to connect peripheral %@ (%@)", peripheral, error);
}
- (void)centralManager:(CBCentralManager *)central didDisconnectPeripheral:
    (CBPeripheral *)peripheral error:(NSError *)error{
    NSLog(@"Disconnected peripheral %@ (%@)",peripheral, error);
}
- (void)centralManager:(CBCentralManager *)central didConnectPeripheral:
    (CBPeripheral *)peripheral{
    //Discover service
    peripheral.delegate = self;
    [peripheral discoverServices:@[IR Temp Service]];
#pragma mark - Peripheral delegate methods
- (void)peripheral:(CBPeripheral *)peripheral didDiscoverServices:(NSError *)
    error{
    if (!error) {
        for (CBService * service in peripheral.services) {
            if([service.UUID isEqual:@[IR Temp Service]]){
                //Discover the characteristic
                [peripheral discoverCharacteristics:@[IR Temp Char]
                    forService:service];
                return;
            }
        }
    }
    [self.centralManager cancelPeripheralConnection:peripheral];
}
- (void)peripheral:(CBPeripheral *)peripheral
    didDiscoverCharacteristicsForService:(CBService *)service error:(NSError *
    )error{
    if (!error) {
        for (CBCharacteristic * characteristic in service.characteristics) {
            //Subscribe to updates of the heart rate characteristic
            [peripheral setNotifyValue:YES forCharacteristic:characteristic];
            return;
    }
    [self.centralManager cancelPeripheralConnection:peripheral];
- (void)peripheral:(CBPeripheral *)peripheral
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didUpdateNotificationStateForCharacteristic:(CBCharacteristic *)
    characteristic error:(NSError *)error{
    if (error) {
        NSLog(@"Failed to subscribe to peripheral %@ (%@)",peripheral, error);
        [self.centralManager cancelPeripheralConnection:peripheral];
        return;
    }
}

- (void)peripheral:(CBPeripheral *)peripheral didUpdateValueForCharacteristic:
    (CBCharacteristic *)characteristic error:(NSError *)error{
        //Received updated data
        NSLog(@"Received updated data from peripheral");
}

@end
```