For Android development, from beginner to beginner. Thursday, June 9, 2016 Scan specified BLE devices with ScanFilter 🕏 🛜 📶 33% 🕞 10:03 AM AndroidBleGatt http://android-er.blogspot.com/ 98:4F:EE:0F:6E:D6 LEDCB 19.99 € 9.99 € 98:4F:EE:0F:6E:D6 DEVICE_TYPE_LE \triangleright \times OK LIEBLINGSFUTTER The former post show how to scan Bluetooth LE device with BluetoothLeScanner, accept all BLE devices. We can use ScanFilter to limit to specified BLE deviecs only. 9,99 € BluetoothLeScanner scan specified BLE devices with ScanFil... Popular Posts Teilen Displaying the SHA1 certificate fingerprint 98:4F:EE:0F:6E:D6 Android NFC example, to read tag info of RFID key and card Create custom info contents for GoogleMaps V2, by implementing custom InfoWindowAdapter Ansehen auf YouTube Simplest Snackbar Edit scanLeDevice() method of MainActivity.java in last post. package com.blogspot.android_er.androidblegatt; How to display layout xml in code view, for import android.app.Activity; Android Studio 3.6.2 import android.app.AlertDialog; import android.bluetooth.BluetoothAdapter; import android.bluetooth.BluetoothDevice; import android.bluetooth.BluetoothManager; Auto scrolling (horizontal running) TextView import android.bluetooth.le.BluetoothLeScanner; import android.bluetooth.le.ScanCallback; import android.bluetooth.le.ScanFilter; import android.bluetooth.le.ScanResult; Add Google Maven repository to Android import android.bluetooth.le.ScanSettings; Studio Project import android.content.Context; import android.content.DialogInterface; import android.content.Intent; import android.content.pm.PackageManager; Play media on surfaceview using import android.os.Bundle; android.media.MediaPlayer import android.os.Handler; import android.support.v7.app.AppCompatActivity; import android.view.View; import android.widget.AdapterView; Implement custom ArrayAdapter to display icon on ListFragment import android.widget.ArrayAdapter; import android.widget.Button; import android.widget.ListAdapter; import android.widget.ListView; TextView, auto scroll down to display import android.widget.Toast; bottom of text import java.util.ArrayList; import java.util.List; public class MainActivity extends AppCompatActivity { $\triangleright \times$ private BluetoothAdapter mBluetoothAdapter; private BluetoothLeScanner mBluetoothLeScanner; private boolean mScanning; private static final int RQS_ENABLE_BLUET00TH = 1; Button btnScan; ListView listViewLE; List<BluetoothDevice> listBluetoothDevice; ListAdapter adapterLeScanResult; private Handler mHandler; **Blog Archive** private static final long SCAN_PERIOD = 10000; 2022 (2) @Override 2021 (3) protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); 2020 (19) setContentView(R.layout.activity_main); 2019 (33) 2018 (28) // Check if BLE is supported on the device. 2017 (75) if (!getPackageManager().hasSystemFeature(PackageManager.FEATURE_BLUET00TH_LE)) |{ Toast.makeText(this, 2016 (174) "BLUET00TH_LE not supported in this device!", December (6) Toast.LENGTH_SHORT).show(); November (3) finish(); October (5) } September (1) getBluetoothAdapterAndLeScanner(); August (17) **July** (17) // Checks if Bluetooth is supported on the device. if (mBluetoothAdapter == null) { June (12) Toast.makeText(this, Install Android Studio 2.1.2 on Linux Mint 17.3 Rosa "bluetoothManager.getAdapter()==null", Install Oracle Java8 on Linux Mint 17.3 Rosa Toast.LENGTH_SHORT).show(); Install Linux Mint 17.3 Rosa on VirtualBox/Windows finish(); return; Think Java: How to Think Like a Computer Scientist BottomSheetDialog example btnScan = (Button)findViewById(R.id.scan); Sets the height of collapsed bottom sheet, by call... btnScan.setOnClickListener(new View.OnClickListener() { Scan specified BLE devices with ScanFilter @Override Implement BottomSheet of Android Design Support public void onClick(View v) { scanLeDevice(true); Bluetooth LE Gatt Example, scan BLE devices }); Bluetooth LE Gatt Example, step-by-step listViewLE = (ListView)findViewById(R.id.lelist); Bluetooth Le Gatt example to link with Arduino/Gen... listBluetoothDevice = new ArrayList<>(); Android Datagram/UDP Server example adapterLeScanResult = new ArrayAdapter<BluetoothDevice>(this, android.R.layout.simple_list_item_1, listBluetoothDevice); May (24) listViewLE.setAdapter(adapterLeScanResult); **April** (26) listViewLE.setOnItemClickListener(scanResultOnItemClickListener); March (31) mHandler = new Handler(); February (9) January (23) } 2015 (401) AdapterView.OnItemClickListener scanResultOnItemClickListener = 2014 (351) new AdapterView.OnItemClickListener(){ 2013 (364) 2012 (348) @Override public void onItemClick(AdapterView<?> parent, View view, int position, long id \ 2011 (287) final BluetoothDevice device = 2010 (152) (BluetoothDevice) parent.getItemAtPosition(position); 2009 (116) String msg = device.getAddress() + "\n" 2008 (9) + device.getBluetoothClass().toString() + "\n" 2007 (7) + getBTDevieType(device); new AlertDialog.Builder(MainActivity.this) .setTitle(device.getName()) Tweets from @android_er .setMessage(msg) .setPositiveButton("OK", new DialogInterface.OnClickListener() { @Override **T** Erik Retweeted public void onClick(DialogInterface dialog, int which) { coXXect @KcCoxxect · Jul 30 }) ESP32-S3-DevKitC-1/CircuitPython to .show(); drive NeoPixel, onboard and offboard. youtu.be/LSH2gFnl2nw via @YouTube **}**; youtube.com ESP32-S3-DevKitCprivate String getBTDevieType(BluetoothDevice d){ 1/CircuitPython to driv... String type = ""; (i) \bigcirc 2 switch (d.getType()){ case BluetoothDevice.DEVICE_TYPE_CLASSIC: T Erik Retweeted type = "DEVICE_TYPE_CLASSIC"; coXXect break; @KcCoxxect · Jul 25 case BluetoothDevice.DEVICE_TYPE_DUAL: type = "DEVICE_TYPE_DUAL"; Upgrading #NanoRP2040Connect NINA break; firmware using Arduino IDE 1.8.19. case BluetoothDevice.DEVICE_TYPE_LE: youtu.be/i_XSeOnAtIQ via @YouTube type = "DEVICE_TYPE_LE"; coxxect.blogspot.com/2022/07/upgrad... break; case BluetoothDevice.DEVICE_TYPE_UNKNOWN: youtube.com type = "DEVICE_TYPE_UNKNOWN"; **Upgrading Nano** break; default: type = "unknown..."; } return type; } @Override protected void onResume() { super.onResume(); if (!mBluetoothAdapter.isEnabled()) { if (!mBluetoothAdapter.isEnabled()) { Intent enableBtIntent = new Intent(BluetoothAdapter.ACTION_REQUEST_ENABLE); startActivityForResult(enableBtIntent, RQS_ENABLE_BLUET00TH); } } @Override protected void onActivityResult(int requestCode, int resultCode, Intent data) { if (requestCode == RQS_ENABLE_BLUETOOTH && resultCode == Activity.RESULT_CANCELED) { finish(); return; } getBluetoothAdapterAndLeScanner(); // Checks if Bluetooth is supported on the device. if (mBluetoothAdapter == null) { Toast.makeText(this, "bluetoothManager.getAdapter()==null", Toast.LENGTH_SHORT).show(); finish(); return; } super.onActivityResult(requestCode, resultCode, data); } private void getBluetoothAdapterAndLeScanner(){ // Get BluetoothAdapter and BluetoothLeScanner. final BluetoothManager bluetoothManager = (BluetoothManager) getSystemService(Context.BLUET00TH_SERVICE); mBluetoothAdapter = bluetoothManager.getAdapter(); mBluetoothLeScanner = mBluetoothAdapter.getBluetoothLeScanner(); mScanning = false; } to call startScan (ScanCallback callback), Requires BLUETOOTH_ADMIN permission. Must hold ACCESS_COARSE_LOCATION or ACCESS_FINE_LOCATION permission to get results. */ private void scanLeDevice(final boolean enable) { if (enable) { listBluetoothDevice.clear(); listViewLE.invalidateViews(); // Stops scanning after a pre-defined scan period. mHandler.postDelayed(new Runnable() { @Override public void run() { mBluetoothLeScanner.stopScan(scanCallback); listViewLE.invalidateViews(); Toast.makeText(MainActivity.this, "Scan timeout", Toast.LENGTH_LONG).show(); mScanning = false; btnScan.setEnabled(true); }, SCAN_PERIOD); //mBluetoothLeScanner.startScan(scanCallback); //scan specified devices only with ScanFilter ScanFilter scanFilter = new ScanFilter.Builder() .setServiceUuid(BluetoothLeService.ParcelUuid_GENUIN0101_ledService) .build(); List<ScanFilter> scanFilters = new ArrayList<ScanFilter>(); scanFilters.add(scanFilter); ScanSettings scanSettings = new ScanSettings.Builder().build(); mBluetoothLeScanner.startScan(scanFilters, scanSettings, scanCallback); mScanning = true; btnScan.setEnabled(false); } else { mBluetoothLeScanner.stopScan(scanCallback); mScanning = false; btnScan.setEnabled(true); } } private ScanCallback scanCallback = new ScanCallback() { @Override public void onScanResult(int callbackType, ScanResult result) { super.onScanResult(callbackType, result); addBluetoothDevice(result.getDevice()); @Override public void onBatchScanResults(List<ScanResult> results) { super.onBatchScanResults(results); for(ScanResult result : results){ addBluetoothDevice(result.getDevice()); } @Override public void onScanFailed(int errorCode) { super.onScanFailed(errorCode); Toast.makeText(MainActivity.this, "onScanFailed: " + String.valueOf(errorCode), Toast.LENGTH_LONG).show(); } private void addBluetoothDevice(BluetoothDevice device){ if(!listBluetoothDevice.contains(device)){ listBluetoothDevice.add(device); listViewLE.invalidateViews(); **}**; Next: - Bluetooth LE example - connect to Bluetooth LE device and display GATT Services ~ Bluetooth LE Gatt Example, step-by-step MBLHO by: Erik label: Android code sample: BlueTooth Low Energy, Bluetooth LE Gatt Example 2 comments: catafest said... ...can you make this working with Intent.ACTION_SCREEN_OFF and put all into logo text? June 22, 2016 at 3:02 PM **Unknown** said... These code works perfect for HM10, however, ScanFilter has failed for microchip BM71 BLE module, without putting the scan filter, I can search both of my HM10 and BM71, any ideas what could be cause? December 17, 2016 at 10:00 AM Post a Comment **Newer Post** Home **Older Post** Subscribe to: Post Comments (Atom) Labels (incompleted) 3D Hologram Video Projector (3) 3D smartphone (1) accessory (1) ACTION_GET_CONTENT (5) ACTION_OPEN_DOCUMENT (13) ACTION_OPEN_DOCUMENT_TREE (1) ActionBarCompat (7) AdMob SDK (1) AlarmManager (2) AlertDialog (1) AlertDialog. 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