**Bluetooth summary**

Bluetooth is a network stack, which allows a device to wirelessly exchange data with other Bluetooth devices. To implement the Bluetooth feature in our application:

1. We need to register the Bluetooth permission in our manifest

<**uses-permission android:name="android.permission.BLUETOOTH"** />  
<**uses-permission android:name="android.permission.BLUETOOTH\_ADMIN"** />

1. We then need to assure the device supports a Bluetooth, by implementing

**mBluetoothAdapter** = BluetoothAdapter.*getDefaultAdapter*();

1. We can the enable the Bluetooth feature in the device by calling

Intent enableBtIntent = **new** Intent(BluetoothAdapter.***ACTION\_REQUEST\_ENABLE***);  
startActivityForResult(enableBtIntent, 1);

1. We can also disable the Bluetooth in the same device by calling the **mBluetoothAdapter.**disable().
2. We can make it discoverable too by implementing

Intent discoverableIntent = **new** Intent (BluetoothAdapter.***ACTION\_REQUEST\_DISCOVERABLE***);  
discoverableIntent.putExtra(BluetoothAdapter.***EXTRA\_DISCOVERABLE\_DURATION***, 300);  
startActivity(discoverableIntent);

1. We discover any nearby Bluetooth support devices, by having a implementing a BluetoothDevice class and registering the broadcast receiver, in which we unregister it in the destroy method of our lifecycle of the activity.
2. We can display a paired deices by calling the getBondedDevices() method.
3. After finding new devices or already paired devices we request for connection. Using the BluetoothSocket class we request for connecting by implementing the connect() methd and disconnect when finished using the close() method. All this has to be handled in separate Thread, to abort any block. We then send our UUID using the method device.createRfcommSocketToServiceRecord(MY\_UUID);
4. If the device is working in the serer side we implement the BluetoothServerSocket class and listen to the incoming UUID by implementing the method mBluetoothAdapter.listenUsingRfcommWithServiceRecord(NAME, MY\_UUID);