

## Tugas 5 Broadcast Receiver

Luthfie Fauzan Ashary

### Tutorial

1. Pertama buka **MainActivity.java** Kemudian Isikan seperti ini

```
import androidx.appcompat.app.AppCompatActivity;

import android.content.ComponentName;
import android.content.Intent;
import android.content.IntentFilter;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity implements
View.OnClickListener {

    Button btnExplicitBroadcast;
    // Membuat variabel beritipe ConnectionReceiver
    ConnectionReceiver cr;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btnExplicitBroadcast = findViewById(R.id.btnExplicitBroadcast);
        btnExplicitBroadcast.setOnClickListener(this);
        // Membuat variabel cr menjadi variabel objek
        cr= new ConnectionReceiver();
    }

    @Override
    protected void onResume() {
        super.onResume();
        // Membuat objek Intent
        IntentFilter filter = new IntentFilter();
        // Menentukan action Intent Filter
        filter.addAction("android.net.conn.CONNECTIVITY_CHANGE");
        // Mendaftarkan Broadcast Receiver
        registerReceiver(cr, filter);
    }

    public void broadcastIntent() {
        Intent intent = new Intent();
        intent.setAction("IntentA");
        // Mengatur komponen nilai untuk Broadcast Receiver
        intent.setComponent(new
ComponentName(getPackageName(), "com.example.applicationbroadcastreceiver.Co
nnectionReceiver"));
        getApplicationContext().sendBroadcast(intent);
    }

    // Override fungsi onStop
    @Override
    protected void onStop() {
        super.onStop();
        unregisterReceiver(cr);
    }
}
```

```

    }

    // Override fungsi onClick
    @Override
    public void onClick(View view) {
        switch (view.getId()) {
            case R.id.btnExplicitBroadcast:
                broadcastIntent();
                break;
        }
    }
}

```

2. Kemudian buka **activity\_main.xml** kemudian isikan seperti ini

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/btnExplicitBroadcast"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Explicit Broadcast"
        android:onClick="onClick"/>
</LinearLayout>

```

3. Buat Class baru bernama **ActivityReceiver.java** Kemudian isikan seperti ini

```

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.content.IntentFilter;
import android.widget.Toast;

public class ActivityReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
        Toast.makeText(context, "Action: " + intent.getAction(),
            Toast.LENGTH_SHORT).show();
    }
}

```

4. Buat class baru bernama **ConnectionReceiver.java** kemudian isikan seperti ini :

```

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;

```

```

import android.widget.Toast;

public class ConnectionReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
// Mengambil nilai aksi dari Intent Filter
        String action = intent.getAction();
// Melakukan pengecekan jenis Intent
// Jika Intent merupakan Explicit
        if (action.equals("IntentA")) {
            Toast.makeText(context, "Explicit: ",
Toast.LENGTH_SHORT).show();
        }
// Jika Intent merupakan Implicit
        if (("android.net.conn.CONNECTIVITY_CHANGE").equals(action)) {
            Toast.makeText(context, "Implicit: Connection Changed",
Toast.LENGTH_SHORT).show();
        }
    }
}

```

5. Kemudian buka Manifestnya dan isikan seperti ini :

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.tugas5">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER"
/>
            </intent-filter>
        </activity>
        <receiver android:name=".ActivityReceiver" >
            <intent-filter>
                <action android:name="android.net.conn.CONNECTIVITY_CHANGE"
/>
            </intent-filter>
        </receiver>

        <receiver android:name=".ConnectionReceiver"
            android:enabled="true">
            <intent-filter>
                <action android:name="IntentA" />
            </intent-filter>
        </receiver>

    </application>
    <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"

```

```
/>  
    <uses-permission android:name="android.permission.INTERNET" />  
</manifest>
```

6. Setelah itu run project nya jadi seperti ini :

