

Mata Kuliah : Pemrograman Perangkat Bergerak – T1-S1

Pertemuan : 12

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1. Aplikasi CRUD dengan Firebase

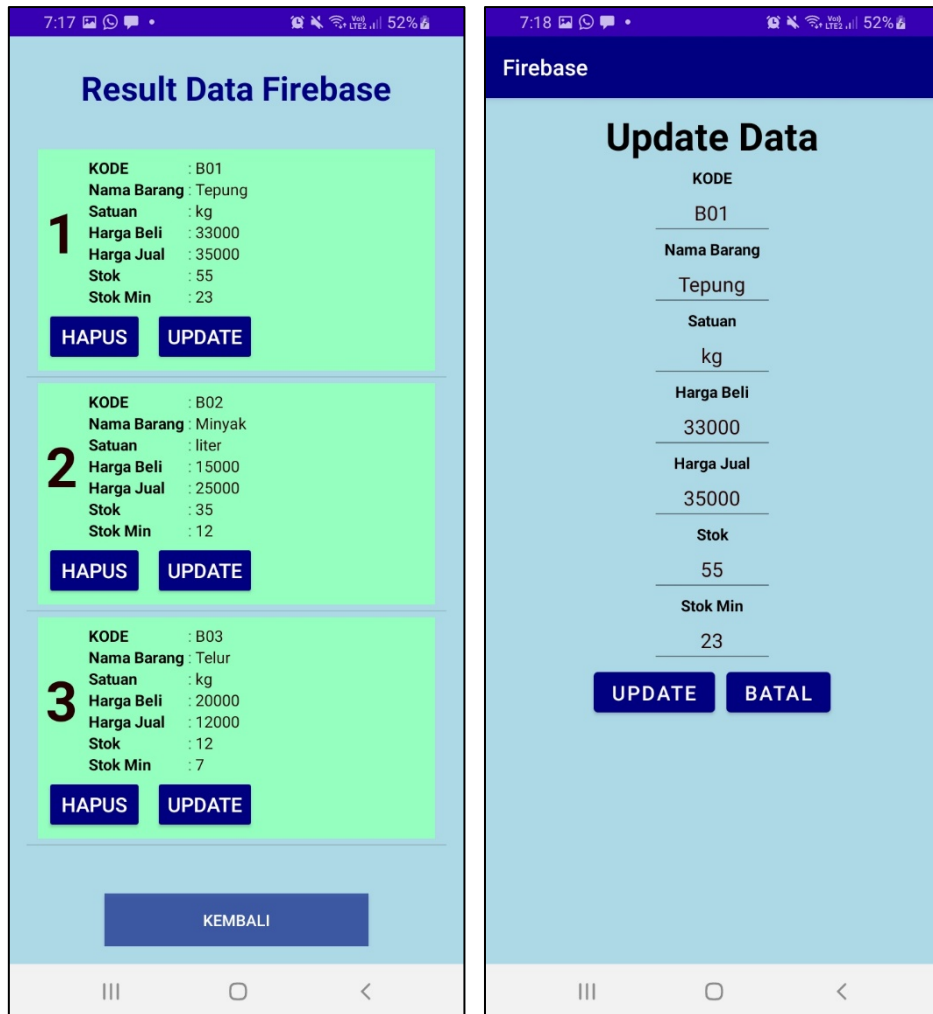
Hasil Program :

The image displays two side-by-side screenshots of a mobile application interface. Both screens have a dark blue header with the text 'Firebase' and a status bar at the top showing the time as 7:17 and battery level at 52%.

The left screenshot shows the 'Firebase Realtime Database' screen. It features a light blue background with two dark blue buttons labeled 'TAMBAH DATA' and 'LIHAT DATA'. A small green circular icon is visible on the right side of the screen.

The right screenshot shows the 'Tambah Data' form. It has a light blue background and a dark blue header with the title 'Tambah Data'. The form contains several input fields with labels: 'Kode Barang', 'Nama Barang', 'Satuan', 'Harga Beli', 'Harga Jual', 'Stok', and 'Stok Min'. Below the input fields is a dark blue button labeled 'SUBMIT'.

Tampilan Awal Aplikasi dan Form Tambah Barang



Tampilan List Barang dan Form Update Barang

Code Program :

Layout-Android(activity_main.xml) :

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#ADD8E6"
    android:padding="10dp"
    android:orientation="vertical">
    <TextView
        android:layout_margin="5dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center_horizontal"
        android:textColor="@color/black"
        android:textSize="25sp"
        android:textStyle="bold"
        android:text="Firebase Realtime Database"/>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center">
```

```

        android:layout_marginTop="10dp"
        android:orientation="horizontal">
        <Button
            android:layout_margin="5dp"
            android:id="@+id/bt_createdata"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Tambah Data" />
        <Button
            android:layout_margin="5dp"
            android:id="@+id/bt_viewdata"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Lihat Data" />
    </LinearLayout>

    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/ic_launcher_foreground"
        android:layout_marginBottom="20dp"
        android:layout_marginRight="20dp"
        android:layout_gravity="bottom|end"
        android:layout_alignParentBottom="true"
        android:layout_alignParentRight="true"
        />
</LinearLayout>

```

activity_firebase_dbcreate.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#ADD8E6"
    android:layout_gravity="center_horizontal"
    android:gravity="center_horizontal"
    android:orientation="vertical"
    android:padding="10dp">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
        android:textSize="40sp"
        android:textStyle="bold"
        android:textColor="@color/black"
        android:text="Tambah Data" />
    <EditText
        android:id="@+id/et_kdbrg"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Kode Barang"
        android:inputType="text" />
    <EditText
        android:id="@+id/et_nmbrg"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Nama Barang"

```

```

        android:inputType="text" />
<EditText
    android:id="@+id/et_satuan"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Satuan"
    android:inputType="text" />
<EditText
    android:id="@+id/et_hrgbeli"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Harga Beli"
    android:inputType="number" />
<EditText
    android:id="@+id/et_hrgjual"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Harga Jual"
    android:inputType="number" />
<EditText
    android:id="@+id/et_stok"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Stok"
    android:inputType="number" />
<EditText
    android:id="@+id/et_stok_min"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Stok Min"
    android:inputType="number" />
<Button
    android:id="@+id/bt_submit"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Submit" />
</LinearLayout>

```

activity_get_firebase.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#ADD8E6"
    android:padding="16dp"
    android:gravity="center">

    <TextView
        android:id="@+id/title"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="20dp"
        android:padding="10dp"
        android:text="Result Data Firebase"
        android:textColor="#000080"
        android:textSize="30sp"
        android:textStyle="bold" />

```

```

<Button
    android:id="@+id/buttonBack"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_marginLeft="70dp"
    android:layout_marginTop="24dp"
    android:layout_marginRight="70dp"
    android:background="#dc304a9f"
    android:text="Kembali"
    android:textColor="#fff" />
<ListView
    android:layout_above="@id/buttonBack"
    android:id="@+id/listview"
    android:layout_below="@id/title"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
</ListView>
</RelativeLayout>

```

activity_update.xml

```

<?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:id="@+id/item"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#ADD8E6"
    android:paddingLeft="10dp"
    android:paddingTop="5dp"
    android:paddingRight="10dp"
    android:paddingBottom="5dp">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:gravity="center">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_margin="5dp"
            android:layout_marginBottom="5dp"
            android:textSize="35sp"
            android:textStyle="bold"
            android:textColor="@color/black"
            android:text="Update Data" />
        <TextView
            android:textStyle="bold"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="KODE"
            android:textColor="@color/black"/>
        <EditText
            android:id="@+id/editKode"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignParentLeft="true"

```

```

        android:text="Kode"
        android:minWidth="110dp"
        android:gravity="center"
        android:textColor="#250000" />
<TextView
    android:textStyle="bold"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Nama Barang"
    android:textColor="@color/black"/>
<EditText
    android:id="@+id/editNama"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/textKode"
    android:layout_alignParentLeft="true"
    android:text="Nama"
    android:minWidth="110dp"
    android:gravity="center"
    android:textColor="#250000" />
<TextView
    android:textStyle="bold"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Satuan"
    android:textColor="@color/black"/>
<EditText
    android:id="@+id/editSatuan"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/textNama"
    android:layout_alignParentLeft="true"
    android:text="Satuan"
    android:minWidth="110dp"
    android:gravity="center"
    android:textColor="#250000" />
<TextView
    android:textStyle="bold"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Harga Beli"
    android:textColor="@color/black"/>
<EditText
    android:id="@+id/editHargaBeli"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/textSatuan"
    android:layout_alignParentLeft="true"
    android:text="Harga Beli"
    android:inputType="number"
    android:minWidth="110dp"
    android:gravity="center"
    android:textColor="#250000" />
<TextView
    android:textStyle="bold"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Harga Jual"
    android:textColor="@color/black"/>
<EditText
    android:id="@+id/editHargaJual"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/textHargaBeli"
        android:layout_alignParentLeft="true"
        android:text="Harga Jual"
        android:inputType="number"
        android:minWidth="110dp"
        android:gravity="center"
        android:textColor="#250000" />
<TextView
    android:textStyle="bold"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Stok"
    android:textColor="@color/black"/>
<EditText
    android:id="@+id/editStok"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/textHargaJual"
    android:layout_alignParentLeft="true"
    android:text="Stok"
    android:inputType="number"
    android:minWidth="110dp"
    android:gravity="center"
    android:textColor="#250000" />
<TextView
    android:textStyle="bold"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Stok Min"
    android:textColor="@color/black"/>
<EditText
    android:id="@+id/editStokMin"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/textStok"
    android:layout_alignParentLeft="true"
    android:text="Stok Min"
    android:inputType="number"
    android:minWidth="110dp"
    android:gravity="center"
    android:textColor="#250000" />
<LinearLayout
    android:id="@+id/btn_layout"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"

    android:gravity="center"
    android:orientation="horizontal">

    <Button
        android:id="@+id/act_update"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:paddingTop="5dp"
        android:layout_marginRight="5dp"
        android:text="update"
        android:textColor="#fcfafa"
        android:textSize="18sp"
        android:textStyle="normal" />

```



```

        android:orientation="vertical">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="KODE"
            android:textColor="@color/black"
            android:textStyle="bold" />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Nama Barang"
            android:textColor="@color/black"
            android:textStyle="bold" />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Satuan"
            android:textColor="@color/black"
            android:textStyle="bold" />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Harga Beli"
            android:textColor="@color/black"
            android:textStyle="bold" />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Harga Jual"
            android:textColor="@color/black"
            android:textStyle="bold" />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Stok"
            android:textColor="@color/black"
            android:textStyle="bold" />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Stok Min"
            android:textColor="@color/black"
            android:textStyle="bold" />
    </LinearLayout>
    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text=" : " />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text=" : " />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text=" : " />
        <TextView

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="  : " />
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="  : " />
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="  : " />
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="  : " />
</LinearLayout>
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical">
    <TextView
        android:id="@+id/textKode"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:text="Kode"
        android:textColor="#250000" />
    <TextView
        android:id="@+id/textNama"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/textKode"
        android:layout_alignParentLeft="true"
        android:text="Nama"
        android:textColor="#250000" />
    <TextView
        android:id="@+id/textSatuan"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/textNama"
        android:layout_alignParentLeft="true"
        android:text="Satuan"
        android:textColor="#250000" />
    <TextView
        android:id="@+id/textHargaBeli"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/textSatuan"
        android:layout_alignParentLeft="true"
        android:text="Harga Beli"
        android:textColor="#250000" />
    <TextView
        android:id="@+id/textHargaJual"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/textHargaBeli"
        android:layout_alignParentLeft="true"
        android:text="Harga Jual"
        android:textColor="#250000" />
    <TextView
        android:id="@+id/textStok"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/textHargaJual"
        android:layout_alignParentLeft="true"
        android:text="Stok"
        android:textColor="#250000" />
    <TextView
        android:id="@+id/textStokMin"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/textStok"
        android:layout_alignParentLeft="true"
        android:text="Stok Min"
        android:textColor="#250000" />
    </LinearLayout>
</LinearLayout>
</RelativeLayout>
<LinearLayout
    android:id="@+id/btn_layout"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentRight="true"
    android:layout_centerInParent="true"
    android:paddingTop="3dp"
    android:gravity="left"
    android:orientation="horizontal">
    <Button
        android:id="@+id/delete"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="5dp"
        android:text="hapus"
        android:textColor="@color/white"
        android:backgroundTint="#000080"
        android:textSize="18sp"
        android:textStyle="normal" />
    <Button
        android:id="@+id/btn_update"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:text="update"
        android:textColor="@color/white"
        android:backgroundTint="#000080"
        android:textSize="18sp"
        android:textStyle="normal" />
    </LinearLayout>
</LinearLayout>
</LinearLayout>

```

Code MainActivity.java

```

package android.example.firebase;

import androidx.appcompat.app.AppCompatActivity;

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

```

```

import android.widget.EditText;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import android.os.Bundle;
import android.example.firebase.Barang;

import javax.annotation.Nullable;

public class MainActivity extends AppCompatActivity {
    private Button btCreateDB;
    private Button btViewDB;

    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        btCreateDB = (Button) findViewById(R.id.bt_createdata);
        btViewDB = (Button) findViewById(R.id.bt_viewdata);

        btCreateDB.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
startActivity(FirebaseDBCreate.getActIntent(MainActivity.this));
            }
        });
        btViewDB.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i = new Intent(MainActivity.this,
GetFirebaseActivity.class);
                startActivity(i);
            }
        });
    }

    @Override
    public void onBackPressed() {
        finishAffinity();
    }
}

```

Barang.java

```

package android.example.firebase;
import com.google.firebase.database.IgnoreExtraProperties;
import java.io.Serializable;

@IgnoreExtraProperties
public class Barang implements Serializable{
    private String Kdbrg;
    private String Nmbrg;
    private String Satuan;
    private String Hrgbeli;
    private String Hrgjual;
    private String Stok;
    private String Stok_min;
    private String key;

    public Barang() {}
}

```

```
public String getKdbrg() {
    return Kdbrg;
}

public void setKdbrg(String kdbrg) {
    Kdbrg = kdbrg;
}

public String getNmbrg() {
    return Nmbrg;
}

public void setNmbrg(String nmbrg) {
    Nmbrg = nmbrg;
}

public String getSatuan() {
    return Satuan;
}

public void setSatuan(String satuan) {
    Satuan = satuan;
}

public String getHrgbeli() {
    return Hrgbeli;
}

public void setHrgbeli(String hrgbeli) {
    Hrgbeli = hrgbeli;
}

public String getHrgjual() {
    return Hrgjual;
}

public void setHrgjual(String hrgjual) {
    Hrgjual = hrgjual;
}

public String getStok() {
    return Stok;
}

public void setStok(String stok) {
    Stok = stok;
}

public String getStok_min() {
    return Stok_min;
}

public void setStok_min(String stok_min) {
    Stok_min = stok_min;
}

public String getKey() {
    return key;
}

public void setKey(String key) {
```

```

        this.key = key;
    }

    @Override
    public String toString(){
        return " "+Kdbrg+"\n" +
            " "+Nmbrg +"\n" +
            " "+Satuan +"\n" +
            " "+Hrgbeli +"\n" +
            " "+Hrgjual +"\n" +
            " "+Stok +"\n" +
            " "+Stok_min;
    }

    public Barang(String Kd, String Nm, String satuan, String beli, String
jual, String stok, String stok_min){
        Kdbrg = Kd;
        Nmbrg = Nm;
        Satuan = satuan;
        Hrgbeli = beli;
        Hrgjual = jual;
        Stok = stok;
        Stok_min = stok_min;
    }
}

```

FirestoreDBCreate.java

```

package android.example.firestore;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import android.app.Activity;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.view.inputmethod.InputMethodManager;
import android.widget.Button;
import android.widget.EditText;
import com.google.android.gms.tasks.OnSuccessListener;
import android.os.Bundle;

import com.google.android.material.snackbar.Snackbar;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import android.example.firestore.Barang;

public class FirestoreDBCreate extends AppCompatActivity {

    private DatabaseReference database;
    private Button btSubmit;
    private EditText etKode;
    private EditText etNama;
    private EditText etSatuan;
    private EditText etHargaBeli;
    private EditText etHargaJual;
    private EditText etStok;
    private EditText etStokMin;
}

```

```

@Override
protected void onCreate(@Nullable Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_firebase_dbcreate);
    etKode = (EditText) findViewById(R.id.et_kdbrg);
    etNama = (EditText) findViewById(R.id.et_nmbrg);
    etSatuan = (EditText) findViewById(R.id.et_satuan);
    etHargaBeli = (EditText) findViewById(R.id.et_hrgbeli);
    etHargaJual = (EditText) findViewById(R.id.et_hrgjual);
    etStok = (EditText) findViewById(R.id.et_stok);
    etStokMin = (EditText) findViewById(R.id.et_stok_min);

    btSubmit = (Button) findViewById(R.id.bt_submit);
    database = FirebaseDatabase.getInstance().getReference();
    final Barang barang = (Barang)
    getIntent().getSerializableExtra("data");

    if (barang != null) {
        etKode.setText(barang.getKdbrg());
        etNama.setText(barang.getNmbrg());
        etSatuan.setText(barang.getSatuan());
        etHargaBeli.setText(barang.getHrgbeli());
        etHargaJual.setText(barang.getHrgjual());
        etStok.setText(barang.getStok());
        etStokMin.setText(barang.getStok_min());

        btSubmit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                barang.setKdbrg(etKode.getText().toString());
                barang.setNmbrg(etNama.getText().toString());
                barang.setSatuan(etSatuan.getText().toString());
                barang.setHrgbeli(etHargaBeli.getText().toString());
                barang.setHrgjual(etHargaJual.getText().toString());
                barang.setStok(etStok.getText().toString());
                barang.setStok_min(etStokMin.getText().toString());

                updateBarang(barang);
            }
        });
    } else {
        btSubmit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if (!isEmpty(etKode.getText().toString()) &&
                !isEmpty(etNama.getText().toString()) &&
                !isEmpty(etSatuan.getText().toString()) &&
                !isEmpty(etHargaBeli.getText().toString()) &&
                !isEmpty(etHargaJual.getText().toString()) &&
                !isEmpty(etStok.getText().toString()) &&
                !isEmpty(etStokMin.getText().toString()))
                    submitBarang(new
                Barang(etKode.getText().toString(), etNama.getText().toString(),
                etSatuan.getText().toString(), etHargaBeli.getText().toString(),
                etHargaJual.getText().toString(), etStok.getText().toString(),
                etStokMin.getText().toString()));
                else
                    Snackbar.make(findViewById(R.id.bt_submit), "Data
                barang tidak boleh kosong", Snackbar.LENGTH_LONG).show();
                InputMethodManager imm = (InputMethodManager)
                getSystemService(Context.INPUT_METHOD_SERVICE);

```

```

        imm.hideSoftInputFromWindow(etKode.getWindowToken(),
0);
    }
    });
}
}
private boolean isEmpty(String s) {
    return TextUtils.isEmpty(s);
}
private void updateBarang(Barang barang) {
    database.child("barang")
        .child(barang.getKey())
        .setValue(barang)
        .addOnSuccessListener(this, new OnSuccessListener<Void>() {
            @Override
            public void onSuccess(Void aVoid) {

                Snackbar.make(findViewById(R.id.bt_submit), "Data
berhasil diupdatekan", Snackbar.LENGTH_LONG).setAction("Oke", new
View.OnClickListener() {
                    @Override
                    public void onClick(View view) {
                        finish();
                    }
                }).show();
            }
        });
}
private void submitBarang(Barang barang) {

    database.child("barang").push().setValue(barang).addOnSuccessListener(
        this, new OnSuccessListener<Void>() {
            @Override
            public void onSuccess(Void aVoid) {
                etKode.setText("");
                etNama.setText("");
                etSatuan.setText("");
                etHargaBeli.setText("");
                etHargaJual.setText("");
                etStok.setText("");
                etStokMin.setText("");

                Snackbar.make(findViewById(R.id.bt_submit), "Data
berhasil ditambahkan", Snackbar.LENGTH_LONG).show();
            }
        });
}
public static Intent getActIntent(Activity activity) {
    return new Intent(activity, FirebaseDBCreate.class);
}
}

```

GetFirebaseActivity.java

```

package android.example.firebase;

import android.app.Activity;
import android.content.Context;
import android.content.Intent;

```



```

import android.os.Bundle;
import android.os.Parcelable;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.ListView;
import android.widget.SimpleAdapter;
import android.widget.TextView;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.Query;
import com.google.firebase.database.ValueEventListener;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class GetFirebaseActivity extends Activity implements
AdapterView.OnItemClickListener {
    Activity activity;
    ListView listView;
    ListAdapter adapter;
    private ArrayList<HashMap<String, String>> list = new
ArrayList<HashMap<String, String>>();
    Button btnBack;
    DatabaseReference rootRef, demoRef;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_get_firebase);
        activity = this;
        btnBack = (Button) findViewById(R.id.buttonBack);
        listView = findViewById(R.id.listview);
        listView.setOnItemClickListener(this);
        listView.setOverScrollMode(View.OVER_SCROLL_NEVER);
        rootRef = FirebaseDatabase.getInstance().getReference();
        demoRef = rootRef.child("barang");
        btnBack.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i = new Intent(GetFirebaseActivity.this,
MainActivity.class);
                startActivity(i);
            }
        });
        getDataValue();
    }
    @Override
    public void onItemClick(AdapterView<?> parent, View view, int position,
long id) {
    }
    public void getDataValue() {
        list = new ArrayList<HashMap<String, String>>();
        rootRef.child("barang")
            .addListenerForSingleValueEvent(new ValueEventListener() {
                @Override

```

```

        public void onDataChange(DataSnapshot dataSnapshot) {
            int i = 1;
            for (DataSnapshot snapshot :
dataSnapshot.getChildren()) {
                String id = (String) snapshot.getKey();
                String Kdbrg = (String)
snapshot.child("kdbrg").getValue();
                String Nmbrg = (String)
snapshot.child("nmbrg").getValue();
                String Satuan = (String)
snapshot.child("satuan").getValue();
                String Hrgbeli = (String)
snapshot.child("hrgbeli").getValue();
                String Hrgjual = (String)
snapshot.child("hrgjual").getValue();
                String Stok = (String)
snapshot.child("stok").getValue();
                String Stok_min = (String)
snapshot.child("stok_min").getValue();
                HashMap<String, String> data = new HashMap<>();
                data.put("key", id);
                data.put("nomor", ""+i++);
                data.put("kdbrg", Kdbrg);
                data.put("nmbrg", Nmbrg);
                data.put("satuan", Satuan);
                data.put("hrgbeli", Hrgbeli);
                data.put("hrgjual", Hrgjual);
                data.put("stok", Stok);
                data.put("stok_min", Stok_min);
                list.add(data);
            }
            adapter = new ListAdapter(activity, list,
R.layout.list_item, new String[]{"nomor", "kdbrg", "nmbrg", "satuan",
"hrgbeli", "hrgjual", "stok", "stok_min"}, new int[]{R.id.nomor,
R.id.textKode, R.id.textNama, R.id.textSatuan, R.id.textHargaBeli,
R.id.textHargaJual, R.id.textStok, R.id.textStokMin});
            Parcelable state = listView.onSaveInstanceState();
            listView.setAdapter(adapter);
            listView.onRestoreInstanceState(state);
            adapter.notifyDataSetChanged();
        }
        @Override
        public void onCancelled(DatabaseError databaseError) {
        }
    });
}

public class ListAdapter extends SimpleAdapter {
    private Context mContext;
    public LayoutInflater inflater = null;
    public ListAdapter(Context context, List<? extends Map<String, ?>>
data, int resource, String[] from, int[] to) {
        super(context, data, resource, from, to);
        mContext = context;
        inflater = (LayoutInflater)
mContext.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
    }
    @Override
    public View getView(int position, View convertView, ViewGroup
parent) {
        View vi = convertView;
        if (convertView == null)

```

```

        vi = inflater.inflate(R.layout.list_item, null);
        HashMap<String, Object> data = (HashMap<String, Object>)
getItem(position);
        final Button btnDelete =vi.findViewById(R.id.delete);
        final Button btnUpdate =vi.findViewById(R.id.btn_update);

        final TextView nomor = vi.findViewById(R.id.nomor);
        final TextView textKd = vi.findViewById(R.id.textKode);
        final TextView textNm = vi.findViewById(R.id.textNama);
        final TextView textSatuan = vi.findViewById(R.id.textSatuan);
        final TextView textHrgBeli =
vi.findViewById(R.id.textHargaBeli);
        final TextView textHrgJual =
vi.findViewById(R.id.textHargaJual);
        final TextView textStok = vi.findViewById(R.id.textStok);
        final TextView textStokMin = vi.findViewById(R.id.textStokMin);

        final String strKey = (String) data.get("key");
        final String strID = (String) data.get("nomor");
        final String strTextKode = (String) data.get("kdbrg");
        final String strTextNama = (String) data.get("nmbrg");
        final String strTextSatuan = (String) data.get("satuan");
        final String strTextHrgBeli = (String) data.get("hrgbeli");
        final String strTextHrgJual = (String) data.get("hrgjual");
        final String strTextStok = (String) data.get("stok");
        final String strTextStokMin = (String) data.get("stok_min");

        nomor.setText(strID);
        textKd.setText(strTextKode);
        textNm.setText(strTextNama);
        textSatuan.setText(strTextSatuan);
        textHrgBeli.setText(strTextHrgBeli);
        textHrgJual.setText(strTextHrgJual);
        textStok.setText(strTextStok);
        textStokMin.setText(strTextStokMin);

        btnDelete.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Delete(strKey);
            }
        });
        btnUpdate.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Bundle bundle = new Bundle();
                bundle.putString("key", strKey);
                bundle.putString("kdbrg", strTextKode);
                bundle.putString("nmbrg", strTextNama);
                bundle.putString("satuan", strTextSatuan);
                bundle.putString("hrgbeli", strTextHrgBeli);
                bundle.putString("hrgjual", strTextHrgJual);
                bundle.putString("stok", strTextStok);
                bundle.putString("stokmin", strTextStokMin);

                Intent intent = new Intent(GetFirebaseActivity.this,
UpdateActivity.class);
                intent.putExtras(bundle);
                startActivity(intent);
            }
        });
    });

```

```

        return vi;
    }
}

public void Delete(String keyID){
    Query applesQuery = demoRef.child(keyID);
    applesQuery.addListenerForSingleValueEvent(new ValueEventListener()
    {
        @Override
        public void onDataChange(DataSnapshot dataSnapshot) {
            for (DataSnapshot dummySnapshot:
dataSnapshot.getChildren()) {
                dummySnapshot.getRef().removeValue();
            }
            getDataValue();
        }
        @Override
        public void onCancelled(DatabaseError databaseError) {
            Log.e("delete", "onCancelled",
databaseError.toException());
        }
    });
}
}

```

UpdateActivity.java

```

package android.example.firebase;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import com.google.android.gms.tasks.OnSuccessListener;
import com.google.android.material.snackbar.Snackbar;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import android.example.firebase.Barang;

public class UpdateActivity extends AppCompatActivity {
    private EditText kdBaru, namaBaru, satuanBaru, HrgBeliBaru,
HrgJualBaru, StokBaru, StokMinBaru;
    private Button update, batal;
    private DatabaseReference database;
    private FirebaseAuth auth;
    private String cekKd, cekNamaBaru, cekSatuanBaru, cekHrgBeli,
cekHrgJual, cekStok, cekStokMin;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_update);
        kdBaru = findViewById(R.id.editKode) ;
    }
}

```

```

namaBaru = findViewById(R.id.editNama) ;
satuanBaru = findViewById(R.id.editSatuan) ;
HrgBeliBaru = findViewById(R.id.editHargaBeli) ;
HrgJualBaru = findViewById(R.id.editHargaJual) ;
StokBaru = findViewById(R.id.editStok) ;
StokMinBaru = findViewById(R.id.editStokMin) ;
update = findViewById(R.id.act_update) ;
batal = findViewById(R.id.btn_batal2) ;

auth = FirebaseAuth.getInstance();
database = FirebaseDatabase.getInstance().getReference();
getData();
update.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        cekKd = kdBaru.getText().toString();
        cekNamaBaru = namaBaru.getText().toString();
        cekSatuanBaru = satuanBaru.getText().toString();
        cekHrgBeli = HrgBeliBaru.getText().toString();
        cekHrgJual = HrgJualBaru.getText().toString();
        cekStok = StokBaru.getText().toString();
        cekStokMin = StokMinBaru.getText().toString();

        if(isEmpty(cekKd) || isEmpty(cekNamaBaru) ||
isEmpty(cekSatuanBaru) || isEmpty(cekHrgBeli) || isEmpty(cekHrgJual) ||
isEmpty(cekStok) || isEmpty(cekStokMin)){
            Toast.makeText(UpdateActivity.this, "Data tidak
boleh ada yang kosong", Toast.LENGTH_SHORT).show();
        }else {
            Barang brg = new Barang();
            brg.setKdbrg(kdBaru.getText().toString());
            brg.setNmbrg(namaBaru.getText().toString());
            brg.setSatuan(satuanBaru.getText().toString());
            brg.setHrgbeli(HrgBeliBaru.getText().toString());
            brg.setHrgjual(HrgJualBaru.getText().toString());
            brg.setStok(StokBaru.getText().toString());
            brg.setStok_min(StokMinBaru.getText().toString());

            updateBarang(brg);
            Intent intent = new Intent(UpdateActivity.this,
GetFirebaseActivity.class);
            startActivity(intent);
        }
    }
});
batal.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(UpdateActivity.this,
GetFirebaseActivity.class);
        startActivity(intent);
    }
});
}

private boolean isEmpty(String s){
    return TextUtils.isEmpty(s);
}

private void getData(){

```

```

        final String getCode = getIntent().getExtras().getString("kdbrg");
        final String getName = getIntent().getExtras().getString("nmbrg");
        final String getSatuan =
getIntent().getExtras().getString("satuan");
        final String getHrgBeli =
getIntent().getExtras().getString("hrghbeli");
        final String getHrgJual =
getIntent().getExtras().getString("hrghjual");
        final String getStok = getIntent().getExtras().getString("stok");
        final String getStokMin =
getIntent().getExtras().getString("stokmin");

        kdBaru.setText(getCode);
        namaBaru.setText(getName);
        satuanBaru.setText(getSatuan);
        HrgBeliBaru.setText(getHrgBeli);
        HrgJualBaru.setText(getHrgJual);
        StokBaru.setText(getStok);
        StokMinBaru.setText(getStokMin);

    }

    private void updateBarang(Barang barang) {
        final String Key = getIntent().getExtras().getString("key");

        database.child("barang").child(Key).setValue(barang).addOnSuccessListener(
            this, new OnSuccessListener<Void>() {
                @Override
                public void onSuccess(Void aVoid) {
                    kdBaru.setText("");
                    namaBaru.setText("");
                    satuanBaru.setText("");
                    HrgBeliBaru.setText("");
                    HrgJualBaru.setText("");
                    StokBaru.setText("");
                    StokMinBaru.setText("");

                    Snackbar.make(findViewById(R.id.act_update), "Data
diupdate", Snackbar.LENGTH_LONG).show();
                }
            });
    }
}

```

AndroidManifest.xml

```

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

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

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Firebase">

```

```

        <activity
            android:name=".UpdateActivity"
            android:exported="true" />
        <activity
            android:name=".GetFirebaseActivity"
            android:exported="true" />
        <activity
            android:name=".FirebaseDBCreate"
            android:exported="true" />
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER"
            />
            </intent-filter>
        </activity>
    </application>

</manifest>

```

colors.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#000080</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
</resources>

```

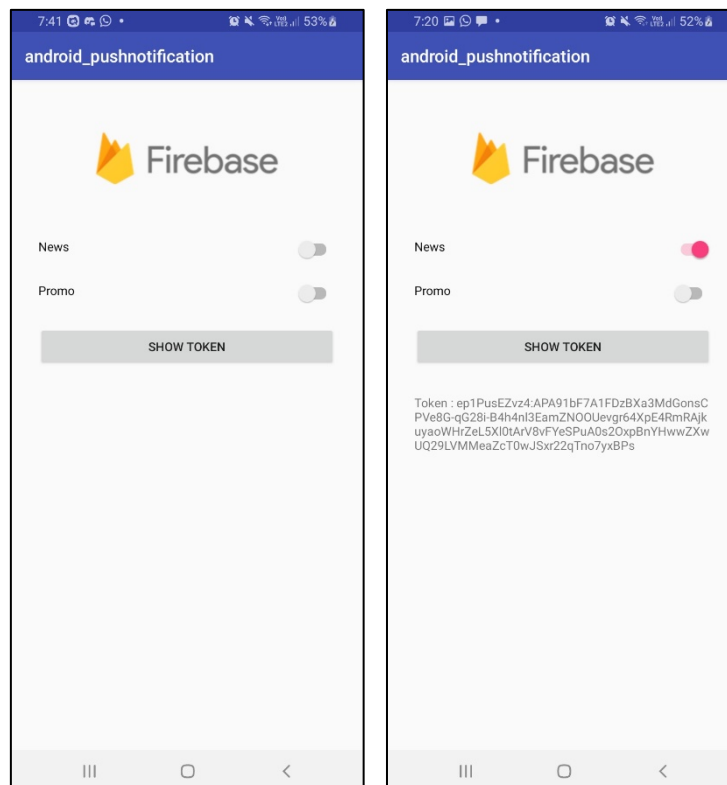
Strings.xml

```

<resources>
    <string name="app_name">Firebase</string>
</resources>

```

2. Program Push Notification dengan Firebase Cloud Messaging Hasil Program :



Code Program :

Layout-Android(activity_main.xml) :

```
<?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:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:orientation="vertical"
    tools:context="com.example.user.android_pushnotification.MainActivity">

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:src="@drawable/firebase"
        tools:ignore="ContentDescription" />

    <Switch
        android:id="@+id/switchNews"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:padding="16dp"
        android:gravity="start"
        android:checked="false"
        android:text="@string/news"/>

    <Switch
```



```

        android:id="@+id/switchPromo"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:padding="16dp"
        android:gravity="start"
        android:checked="false"
        android:text="@string/promo" />

<Button
    android:id="@+id/btn_token"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="16dp"
    android:text="@string/show_token"/>

<TextView
    android:id="@+id/tv_token"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:padding="16dp" />

</LinearLayout>

```

Code MainActivity.java

```

package com.example.user.android_pushnotification;

import android.content.SharedPreferences;
import android.preference.PreferenceManager;
import android.support.v4.content.SharedPreferencesCompat;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.CompoundButton;
import android.widget.Switch;
import android.widget.TextView;
import android.widget.Toast;

import com.google.firebase.iid.FirebaseInstanceId;
import com.google.firebase.messaging.FirebaseMessaging;

public class MainActivity extends AppCompatActivity {

    private static final String PREF_SWITCH_NEWS = "switch_news";
    private static final String PREF_SWITCH_PROMO = "switch_promo";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Switch News_switch = (Switch) findViewById(R.id.switchNews);
        Switch Promo_switch = (Switch) findViewById(R.id.switchPromo);
        Button Tokenbtn = (Button) findViewById(R.id.btn_token);

        Tokenbtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String token = FirebaseInstanceId.getInstance().getToken();
                TextView Tokenview = (TextView) findViewById(R.id.tv_token);
                Tokenview.setText(getResources().getString(R.string.token, token));

                Log.i("TOKEN", token);
            }
        });
    }
}

```

```

        News_switch.setChecked(isSwitchChecked(PREF_SWITCH_NEWS));
        Promo_switch.setChecked(isSwitchChecked(PREF_SWITCH_PROMO));

        News_switch.setChecked(isSwitchChecked(PREF_SWITCH_NEWS));
        News_switch.setChecked(isSwitchChecked(PREF_SWITCH_PROMO));

        News_switch.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton compoundButton, boolean
checked) {
                setSwitchChecked(PREF_SWITCH_NEWS, checked);

                if(checked) {
                    FirebaseMessaging.getInstance().subscribeToTopic("news");
                    Toast.makeText(getApplicationContext(), "Subscribe to News
Topic" , Toast.LENGTH_SHORT).show();
                }else{
                    FirebaseMessaging.getInstance().unsubscribeFromTopic("news");
                    Toast.makeText(getApplicationContext(), "Unsubscribe from News
Topic" , Toast.LENGTH_SHORT).show();
                }
            }
        });
        Promo_switch.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton compoundButton, boolean
checked){
                setSwitchChecked(PREF_SWITCH_PROMO, checked);
                if(checked) {
                    FirebaseMessaging.getInstance().subscribeToTopic("promo");
                    Toast.makeText(getApplicationContext(), "Subscribe to Promo
Topic", Toast.LENGTH_SHORT).show();
                }else{
                    FirebaseMessaging.getInstance().unsubscribeFromTopic("promo");
                    Toast.makeText(getApplicationContext(), "Unsubscribe from Promo
Topic", Toast.LENGTH_SHORT).show();
                }
            }
        });
    }

    private void setSwitchChecked(String permission, boolean isChecked){
        SharedPreferences preferences =
PreferenceManager.getDefaultSharedPreferences(this);
        SharedPreferences.Editor editor = preferences.edit();
        editor.putBoolean(permission, isChecked);
        editor.apply();
    }

    private boolean isSwitchChecked(String permission){
        SharedPreferences preferences =
PreferenceManager.getDefaultSharedPreferences(this);
        return preferences.getBoolean(permission, false);
    }
}

```

Code MyFirebaseInstanceIdService.java

```

package com.example.user.android_pushnotification;

import android.util.Log;

import com.google.firebase.iid.FirebaseInstanceId;
import com.google.firebase.iid.FirebaseInstanceIdService;

```

```

public class MyFirebaseInstanceIdService extends FirebaseInstanceIdService {
    private static final String TAG = "MyFirebaseIIDService";

    @Override
    public void onTokenRefresh(){
        String refreshedToken = FirebaseInstanceId.getInstance().getToken();
        Log.d(TAG, "Refreshed Token : " + refreshedToken);
        sendRegistrationToServer(refreshedToken);
    }

    private void sendRegistrationToServer(String token){

    }
}

```

Code MyFirebaseMessagingService.java

```

package com.example.user.android_pushnotification;

import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Context;
import android.content.Intent;
import android.media.Ringtone;
import android.media.RingtoneManager;
import android.net.Uri;
import android.support.v4.app.NotificationCompat;
import android.util.Log;

import com.google.firebase.messaging.FirebaseMessagingService;
import com.google.firebase.messaging.RemoteMessage;

public class MyFirebaseMessagingService extends FirebaseMessagingService {
    private static final String TAG = "MyFirebaseMsgService";

    @Override
    public void onMessageReceived(RemoteMessage remoteMessage){
        Log.d(TAG, "From : "+remoteMessage.getFrom());
        if (remoteMessage.getNotification() != null){
            Log.d(TAG, "Message data payload: "+remoteMessage.getData());
        }
        if (remoteMessage.getNotification() != null){
            Log.d(TAG, "Message Notification Body: "+
remoteMessage.getNotification().getBody());
            sendNotification(remoteMessage.getNotification().getBody());
        }

        private void sendNotification(String messageBody){
            Intent i = new Intent(this, MainActivity.class);
            i.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);
            PendingIntent pendingIntent = PendingIntent.getActivity(this, 0, i,
PendingIntent.FLAG_ONE_SHOT);

            Uri defaultSoundUri =
RingtoneManager.getDefaultUri(RingtoneManager.TYPE_NOTIFICATION);
            NotificationCompat.Builder notificationBuilder = new
NotificationCompat.Builder(this)
                .setSmallIcon(R.mipmap.ic_launcher)
                .setContentTitle("FCM Message")
                .setContentText(messageBody)
                .setAutoCancel(true)
                .setSound(defaultSoundUri)
                .setContentIntent(pendingIntent);

            NotificationManager notificationManager = (NotificationManager)
getSystemService(Context.NOTIFICATION_SERVICE);

            notificationManager.notify(0, notificationBuilder.build());
        }
    }
}

```

```
}  
}
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
    package="com.example.user.android_pushnotification" >  
  
    <application  
        android:allowBackup="true"  
        android:icon="@mipmap/ic_launcher"  
        android:label="@string/app_name"  
        android:supportRtl="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>  
  
        <meta-data  
            android:name="com.google.firebase.messaging.default_notification_icon"  
            android:resource="@mipmap/ic_launcher" />  
  
        <meta-data  
            android:name="com.google.firebase.messaging.default_notification_color"  
            android:resource="@color/colorAccent" />  
  
        <service  
            android:name=".MyFirebaseMessagingService">  
            <intent-filter>  
                <action android:name="com.google.firebase.MESSAGING_EVENT"/>  
            </intent-filter>  
        </service>  
  
        <service  
            android:name=".MyFirebaseInstanceIdService">  
            <intent-filter>  
                <action android:name="com.google.firebase.INSTANCE_ID_EVENT"/>  
            </intent-filter>  
        </service>  
  
    </application>  
</manifest>
```

colors.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<resources>  
    <color name="colorPrimary">#3F51B5</color>  
    <color name="colorPrimaryDark">#303F9F</color>  
    <color name="colorAccent">#FF4081</color>  
</resources>
```

Styles.xml

```
<resources>  
  
    <!-- Base application theme. -->  
    <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">  
        <!-- Customize your theme here. -->  
        <item name="colorPrimary">@color/colorPrimary</item>
```

```
        <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
        <item name="colorAccent">@color/colorAccent</item>
    </style>

</resources>
```

Strings.xml

```
<resources>
    <string name="app_name">android_pushnotification</string>
    <string name="token">Token : %s</string>
    <string name="news">News</string>
    <string name="promo">Promo</string>
    <string name="show_token">Show Token</string>
</resources>
```