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### Code EditMhsActivity.java

```
package com.example.aplikasifirebase;

import androidx.annotation.NonNull;
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 android.widget.ImageButton;
import android.widget.Toast;

import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
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.ValueEventListener;

public class EditMhsActivity extends AppCompatActivity {

    EditText etNIM,etNama,etJurusan,etAngkatan;
    Button btnSimpan,btnHapus;
    ImageButton btnBack;
    String temp_nim,temp_nama,temp_jurusan,temp_angkatan;

    DatabaseReference databaseReference;

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

        //Mengambil data ('nim') yang dikirim dari activity
        //sebelumnya
        Intent intent = getIntent();
        String nim = intent.getStringExtra("nim");

        //inisialisasi variable dengan id yang ada di layout
        etNIM = findViewById(R.id.et_nim);
```

```

        etNama = findViewById(R.id.et_nama);
        etJurusan = findViewById(R.id.et_jurusan);
        etAngkatan = findViewById(R.id.et_angkatan);

        btnSimpan = findViewById(R.id.btn_simpan);
        btnHapus = findViewById(R.id.btn_hapus);
        btnBack = findViewById(R.id.btn_back);

        databaseReference =
        FirebaseDatabase.getInstance().getReference().child("mhs").ch
        ild(nim);
        databaseReference.addValueEventListener(new
        ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot
        dataSnapshot) {
                temp_nim =
        dataSnapshot.child("nim").getValue().toString();
                temp_nama =
        dataSnapshot.child("nama").getValue().toString();
                temp_jurusan =
        dataSnapshot.child("jurusan").getValue().toString();
                temp_angkatan =
        dataSnapshot.child("angkatan").getValue().toString();

                etNIM.setText(temp_nim);
                etNama.setText(temp_nama);
                etJurusan.setText(temp_jurusan);
                etAngkatan.setText(temp_angkatan);

            }

            @Override
            public void onCancelled(@NonNull DatabaseError
        databaseError) {

            }

        });

        btnSimpan.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick(View view) {
                updateData();
                finish();
            }
        });

        btnHapus.setOnClickListener(new
        View.OnClickListener() {
            @Override

```

```

        public void onClick(View view) {
            hapusData();
            finish();
        }
    });

    btnBack.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View view) {
            finish();
        }
    });

}

private void hapusData() {
    databaseReference.removeValue();
}

private void updateData() {
    String nim = etNIM.getText().toString();
    String nama = etNama.getText().toString();
    String jurusan = etJurusan.getText().toString();
    String angkatan = etAngkatan.getText().toString();

    if(!nim.equals(temp_nim) || !nama.equals(temp_nama)
    || !jurusan.equals(temp_jurusan) ||
    !angkatan.equals(temp_angkatan)){
        Mahasiswa mahasiswa = new
        Mahasiswa(nim,nama,jurusan,angkatan);

        databaseReference.setValue(mahasiswa).addOnSuccessListener(ne
        w OnSuccessListener<Void>() {
            @Override
            public void onSuccess(Void aVoid) {
                Toast.makeText(EditMhsActivity.this,
                "Data berhasil diubah", Toast.LENGTH_SHORT).show();

                etNIM.setText("");
                etNama.setText("");
                etJurusan.setText("");
                etAngkatan.setText("");
            }
        }).addOnFailureListener(new OnFailureListener() {
            @Override
            public void onFailure(@NonNull Exception e) {
                Toast.makeText(EditMhsActivity.this,
                "Data gagal diubah", Toast.LENGTH_SHORT).show();
            }
        });
    }
}

```

```

        });
    } else{
        Toast.makeText(this, "Data Tidak berubah",
Toast.LENGTH_SHORT).show();
    }
}
}

```

### Code ListMhsActivity.java

```

package com.example.aplikasifirebase;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageButton;
import android.widget.Toast;

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.ValueEventListener;

import java.util.ArrayList;
import java.util.List;

public class ListMhsActivity extends AppCompatActivity {
    List<Mahasiswa> fetchData;
    RecyclerView recyclerView;
    MyAdapter myAdapter;
    DatabaseReference databaseReference;

    ImageButton btnBack;

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

        recyclerView = findViewById(R.id.recyclerview);
        recyclerView.setLayoutManager(new
LinearLayoutManager(this));
        fetchData = new ArrayList<>();
    }
}

```

```

        //inisialisasi objek untuk ke firebase
        databaseReference =
        FirebaseDatabase.getInstance().getReference("mhs");
        databaseReference.addListenerForSingleValueEvent(new
        ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot
        dataSnapshot) {
                //iterasi mengambil mahasiswa
                for (DataSnapshot ds :
        dataSnapshot.getChildren()) {
                    //Mengambil value setiap child dari
        'mahasiswa' (nim,nama,jurusan,angkatan)
                    String nim =
        ds.child("nim").getValue().toString();
                    String nama =
        ds.child("nama").getValue().toString();
                    Mahasiswa data = new Mahasiswa(nim,nama);
                    fetchData.add(data);

                }
                myAdapter = new MyAdapter(fetchData);
                recyclerView.setAdapter(myAdapter);

                //Pindah activity apabila item pada list di
        click
                myAdapter.setOnItemClickListener(new
        MyAdapter.OnItemClickListener() {
                    @Override
                    public void onItemClick(int position) {
                        String nim =
        fetchData.get(position).getNim();
                        startActivity(new
        Intent(ListMhsActivity.this,EditMhsActivity.class).putExtra("
        nim",nim));
                    }
                });

            }

            @Override
            public void onCancelled(@NonNull DatabaseError
        databaseError) {
                Toast.makeText(ListMhsActivity.this, "Maaf
        Terjadi kesalahan... coba beberapa saat lagi!",
        Toast.LENGTH_SHORT).show();
            }
        });
        btnBack = findViewById(R.id.btn_back);

```

```

        btnBack.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View view) {
                finish();
            }
        });
    }
}

```

### Code Mahasiswa.java

```

package com.example.aplikasifirebase;

public class Mahasiswa {
    private String nim;
    private String nama;
    private String jurusan;
    private String angkatan;

    public Mahasiswa(String nim, String nama, String jurusan,
String angkatan) {
        this.nim = nim;
        this.nama = nama;
        this.jurusan = jurusan;
        this.angkatan = angkatan;
    }

    public Mahasiswa(String nim, String nama) {
        this.nim = nim;
        this.nama = nama;
    }

    public String getNim() {
        return nim;
    }

    public void setNim(String nim) {
        this.nim = nim;
    }

    public String getNama() {
        return nama;
    }

    public void setNama(String nama) {
        this.nama = nama;
    }
}

```

```
public String getJurusan() {
    return jurusan;
}

public void setJurusan(String jurusan) {
    this.jurusan = jurusan;
}

public String getAngkatan() {
    return angkatan;
}

public void setAngkatan(String angkatan) {
    this.angkatan = angkatan;
}
}
```

#### Code MainActivity.java

```
package com.example.aplikasifirebase;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {

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

    public void pindah(View v) {
        switch (v.getId()) {
            case R.id.add_mhs:
                startActivity(new Intent(MainActivity.this,
TambahMhsActivity.class));
                break;
            case R.id.list_mhs:
                startActivity(new Intent(MainActivity.this,
ListMhsActivity.class));
            }
        }
    }
}
```

## Code MyAdapter.java

```
package com.example.aplikasifirebase;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import java.util.List;

public class MyAdapter extends RecyclerView.Adapter {

    //List untuk menampung semua data mahasiswa dari firebase
    List<Mahasiswa> fetcgDataList;
    private OnItemClickListener mListener;

    public MyAdapter(List<Mahasiswa> fetcgDataList) {
        this.fetcgDataList = fetcgDataList;
    }

    @NonNull
    @Override
    public RecyclerView.ViewHolder
    onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View view =
        LayoutInflater.from(parent.getContext()).inflate(R.layout.item_mhs,parent,false);
        ViewHolderClass viewHolderClass = new
        ViewHolderClass(view,mListener);
        return viewHolderClass;
    }

    @Override
    public void onBindViewHolder(@NonNull
    RecyclerView.ViewHolder holder, int position) {
        ViewHolderClass viewHolderClass =
        (ViewHolderClass)holder;

        Mahasiswa mahasiswa = fetcgDataList.get(position);
        viewHolderClass.nim.setText(mahasiswa.getNim());
        viewHolderClass.nama.setText(mahasiswa.getNama());
    }

    @Override
    public int getItemCount() {
        return fetcgDataList.size();
    }
}
```



```

    }

    public class ViewHolderClass extends
RecyclerView.ViewHolder{
        TextView nim,nama,jurusan,angkatan;

        public ViewHolderClass(@NonNull View itemView, final
OnClickItemClickListener listener) {
            super(itemView);
            nim=itemView.findViewById(R.id.tv_nim);
            nama=itemView.findViewById(R.id.tv_nama);

            //Dilakukan agar item pada list dapat berpindah
ke activity lain
            itemView.setOnClickListener(new
View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    if (listener != null){
                        int position = getAdapterPosition();
                        if (position !=
RecyclerView.NO_POSITION){
                            listener.onClick(position);
                        }
                    }
                }
            });
        }

        public interface OnItemClickListener{
            void onClick(int position);
        }

        public void setOnItemClickListener(OnItemClickListener
listener){
            mListener = listener;
        }
    }
}

```

#### Code TambahMhsActivity.java

```

package com.example.aplikasifirebase;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;

```

```

import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageButton;
import android.widget.Toast;

import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;

public class TambahMhsActivity extends AppCompatActivity{
    EditText etNIM,etNama,etJurusan,etAngkatan;
    Button btnTambah;
    ImageButton btnBack;

    FirebaseDatabase database;
    DatabaseReference myref;

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

        //inisialisasi variable dengan id yang ada di layout
        etNIM = findViewById(R.id.et_nim);
        etNama = findViewById(R.id.et_nama);
        etJurusan = findViewById(R.id.et_jurusan);
        etAngkatan = findViewById(R.id.et_angkatan);

        btnTambah = findViewById(R.id.btn_tambah);
        btnBack = findViewById(R.id.btn_back);

        //memanggil fungsi untuk input data ke firebase
        insertData();

        btnBack.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View view) {
                finish();
            }
        });

        private void insertData() {
            //inisialisasi object ke firebase
            database =
            FirebaseDatabase.getInstance("https://praktikum-12-72130-
            default-rtdb.firebaseio.com/");
            myref = database.getReference("mhs");

```

```

        //melakukan sesuatu jika btn ditekan
        btnTambah.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View view) {

                //mengambil data dari setiap edittext dan di
ubah kedalam string
                final String nim =
etNIM.getText().toString();
                final String nama =
etNama.getText().toString();
                final String jurusan =
etJurusan.getText().toString();
                final String angkatan =
etAngkatan.getText().toString();

                //Validasi data yang diinput tidak boleh
kosong
                if (nim.equals("") || nama.equals("") ||
jurusan.equals("") || angkatan.equals("")){
                    Toast.makeText(TambahMhsActivity.this,
>Data Harus diisi semua!!", Toast.LENGTH_SHORT).show();
                } else{
                    //memasukkan data - data tersebut kedalam
objek 'Mahasiswa'
                    Mahasiswa mhs = new
Mahasiswa(nim,nama,jurusan,angkatan);

                    //input data kedalam firebase

myref.child(nim).setValue(mhs).addOnSuccessListener(new
OnSuccessListener<Void>() {
                        @Override
                        public void onSuccess(Void aVoid) {

                            //apabila input data berhasil
maka akan melakukan hal berikut

Toast.makeText(TambahMhsActivity.this, "Data berhasil
ditambahkan", Toast.LENGTH_SHORT).show();
                            etNIM.setText("");
                            etNama.setText("");
                            etJurusan.setText("");
                            etAngkatan.setText("");
                        }
                    }).addOnFailureListener(new
OnFailureListener() {
                        @Override
                        public void onFailure(@NonNull
Exception e) {

```

```
                                //apabila input data gagal maka  
akan melakukan hal berikut
```

```
Toast.makeText(TambahMhsActivity.this, "Data Gagal  
ditambahkan", Toast.LENGTH_SHORT).show();
```

```
                                }  
                                });  
                                finish();  
                                }  
                                }  
                                });  
                                }  
                                }  
                                }
```

#### Code activity\_edit\_mhs.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<ScrollView  
    xmlns:android="http://schemas.android.com/apk/res/android"  
        xmlns:app="http://schemas.android.com/apk/res-auto"  
        xmlns:tools="http://schemas.android.com/tools"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"  
        tools:context=".EditMhsActivity"  
        android:padding="8dp">  
  
    <LinearLayout  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:orientation="vertical">  
  
        <ImageButton  
            android:id="@+id/btn_back"  
            android:layout_width="wrap_content"  
            android:layout_height="wrap_content"  
            android:src="@drawable/ic_back"  
            android:background="@android:color/transparent"  
            android:clickable="true"  
  
            android:foreground="?android:attr/selectableItemBackground"/>  
  
            <TextView  
                android:layout_width="wrap_content"  
                android:layout_height="wrap_content"  
                android:text="Ubah Data Mahasiswa"  
                android:textSize="20sp"  
                android:layout_marginBottom="20dp"
```

```

        android:textColor="@android:color/black"
        android:layout_gravity="center_horizontal"/>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="8dp"
    android:layout_gravity="center_horizontal">

    <TextView
        android:layout_width="65dp"
        android:layout_height="wrap_content"
        android:text="NIM"
        android:textColor="@android:color/black"
        android:layout_marginRight="10dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@android:color/black"
        android:text=":"/>

    <EditText
        android:id="@+id/et_nim"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:hint="Masukkan NIM"
        android:textSize="12sp"
        android:layout_marginLeft="5dp"/>
</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="20dp"
    android:layout_gravity="center_horizontal">

    <TextView
        android:layout_width="65dp"
        android:layout_height="wrap_content"
        android:text="Nama"
        android:textColor="@android:color/black"
        android:layout_marginRight="8dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@android:color/black"
        android:text=":"/>

    <EditText
        android:id="@+id/et_nama"
        android:layout_width="200dp"

```

```

        android:layout_height="wrap_content"
        android:hint="Masukkan Nama"
        android:textSize="12sp"
        android:layout_marginLeft="5dp"/>
</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="20dp"
    android:layout_gravity="center_horizontal">

    <TextView
        android:layout_width="65dp"
        android:layout_height="wrap_content"
        android:text="Jurusan"
        android:textColor="@android:color/black"
        android:layout_marginRight="8dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@android:color/black"
        android:text=":"/>

    <EditText
        android:id="@+id/et_jurusan"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:hint="Masukkan Jurusan"
        android:textSize="12sp"
        android:layout_marginLeft="5dp"/>
</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="20dp"
    android:layout_gravity="center_horizontal">

    <TextView
        android:layout_width="65dp"
        android:layout_height="wrap_content"
        android:text="Angkatan"
        android:textColor="@android:color/black"
        android:layout_marginRight="8dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@android:color/black"
        android:text=":"/>

```

```

        <EditText
            android:id="@+id/et_angkatan"
            android:layout_width="200dp"
            android:layout_height="wrap_content"
            android:hint="Masukkan Angkatan"
            android:textSize="12sp"
            android:layout_marginLeft="5dp"/>
    </LinearLayout>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center_horizontal">
        <Button
            android:id="@+id/btn_simpan"
            android:layout_width="150dp"
            android:layout_height="wrap_content"
            android:layout_marginRight="5dp"
            android:backgroundTint="#00b300"
            android:text="Simpan"/>
        <Button
            android:id="@+id/btn_hapus"
            android:layout_width="150dp"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:backgroundTint="@android:color/holo_red_dark"
            android:text="Hapus"/>

    </LinearLayout>

</LinearLayout>

</ScrollView>

```

#### Code activity\_list\_mhs.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ListMhsActivity"
    android:orientation="vertical"
    android:padding="8dp">

    <ImageButton
        android:id="@+id/btn_back"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/ic_back"
        android:background="@android:color/transparent"
        android:clickable="true"

        android:foreground="?android:attr/selectableItemBackground"/>

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="List Mahasiswa"
            android:textSize="25sp"
            android:layout_gravity="center_horizontal"
            android:textColor="@android:color/black"
            android:layout_marginBottom="10dp"/>

        <androidx.recyclerview.widget.RecyclerView
            android:id="@+id/recyclerview"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
        </androidx.recyclerview.widget.RecyclerView>

    </LinearLayout>

```

### Code activity\_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    android:background="#f2f2f2">

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_gravity="center">

        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            android:padding="8dp"
            android:layout_marginBottom="10dp"

```



```

        android:layout_centerHorizontal="true">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="20dp">

            <androidx.cardview.widget.CardView

xmlns:card_view="http://schemas.android.com/apk/res-auto"
                android:id="@+id/add_mhs"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginLeft="15dp"
                android:layout_marginRight="15dp"
                card_view:cardCornerRadius="10dp"
                android:clickable="true"
                android:onClick="pindah"
                android:background="@android:color/white"

android:foreground="?android:attr/selectableItemBackground">

                <LinearLayout
                    android:layout_width="150dp"
                    android:layout_height="150dp"
                    android:paddingTop="20dp"
                    android:orientation="vertical">

                        <ImageView
                            android:layout_width="70dp"
                            android:layout_height="70dp"
                            android:layout_gravity="center"

android:src="@drawable/ic_add_mhs"/>

                        <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                            android:textSize="12sp"
                            android:layout_gravity="center"
                            android:layout_marginTop="8dp"

android:textColor="@android:color/black"
                            android:text="Tambah Mahasiswa"/>
                        </LinearLayout>

                    </androidx.cardview.widget.CardView>

                <androidx.cardview.widget.CardView

```

```

xmlns:card_view="http://schemas.android.com/apk/res-auto"
        android:id="@+id/list_mhs"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="15dp"
        android:layout_marginRight="15dp"
        android:clickable="true"

        android:foreground="?android:attr/selectableItemBackground"
        android:onClick="pindah"
        card_view:cardCornerRadius="10dp">

        <LinearLayout
            android:layout_width="150dp"
            android:layout_height="150dp"
            android:paddingTop="20dp"
            android:orientation="vertical">

            <ImageView
                android:layout_width="70dp"
                android:layout_height="70dp"
                android:layout_gravity="center"

                android:src="@drawable/ic_list_mhs"/>

            <TextView

                android:layout_width="wrap_content"

                android:layout_height="wrap_content"
                android:textSize="12sp"
                android:layout_gravity="center"
                android:layout_marginTop="8dp"

                android:textColor="@android:color/black"
                android:text="List Mahasiswa"/>
            </LinearLayout>

        </androidx.cardview.widget.CardView>

    </LinearLayout>
</LinearLayout>

</RelativeLayout>

</ScrollView>

```

## Code activity\_tambah\_mhs.xml

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".TambahMhsActivity"
    android:padding="8dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <ImageButton
            android:id="@+id/btn_back"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:src="@drawable/ic_back"
            android:background="@android:color/transparent"
            android:clickable="true"

android:foreground="?android:attr/selectableItemBackground"/>

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Tambah Mahasiswa"
            android:textSize="20sp"
            android:layout_marginBottom="20dp"
            android:textColor="@android:color/black"
            android:layout_gravity="center_horizontal"/>

        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginBottom="8dp"
            android:layout_gravity="center_horizontal">

            <TextView
                android:layout_width="65dp"
                android:layout_height="wrap_content"
                android:text="NIM"
                android:textColor="@android:color/black"
                android:layout_marginRight="10dp"/>

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
```

```

        android:textColor="@android:color/black"
        android:text=":"/>

<EditText
    android:id="@+id/et_nim"
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:hint="Masukkan NIM"
    android:textSize="12sp"
    android:layout_marginLeft="5dp"/>
</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="20dp"
    android:layout_gravity="center_horizontal">

    <TextView
        android:layout_width="65dp"
        android:layout_height="wrap_content"
        android:text="Nama"
        android:textColor="@android:color/black"
        android:layout_marginRight="8dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@android:color/black"
        android:text=":"/>

    <EditText
        android:id="@+id/et_nama"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:hint="Masukkan Nama"
        android:textSize="12sp"
        android:layout_marginLeft="5dp"/>
</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="20dp"
    android:layout_gravity="center_horizontal">

    <TextView
        android:layout_width="65dp"
        android:layout_height="wrap_content"
        android:text="Jurusan"
        android:textColor="@android:color/black"
        android:layout_marginRight="8dp"/>

```

```

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textColor="@android:color/black"
            android:text=":"/>

        <EditText
            android:id="@+id/et_jurusan"
            android:layout_width="200dp"
            android:layout_height="wrap_content"
            android:hint="Masukkan Jurusan"
            android:textSize="12sp"
            android:layout_marginLeft="5dp"/>
    </LinearLayout>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="20dp"
        android:layout_gravity="center_horizontal">

        <TextView
            android:layout_width="65dp"
            android:layout_height="wrap_content"
            android:text="Angkatan"
            android:textColor="@android:color/black"
            android:layout_marginRight="8dp"/>
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textColor="@android:color/black"
            android:text=":"/>

        <EditText
            android:id="@+id/et_angkatan"
            android:layout_width="200dp"
            android:layout_height="wrap_content"
            android:hint="Masukkan Angkatan"
            android:textSize="12sp"
            android:layout_marginLeft="5dp"/>
    </LinearLayout>

    <Button
        android:id="@+id/btn_tambah"
        android:layout_width="150dp"
        android:layout_height="wrap_content"
        android:text="Tambah"
        android:layout_gravity="center_horizontal"/>

</LinearLayout>

```

```
</ScrollView>
```

#### Code item\_mhs.xml

```
<?xml version="1.0" encoding="utf-8"?>
<!--Ini merupakan tampilan untuk setiap item pada sebuah
list-->

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:layout_margin="8dp"
    android:background="@drawable/frame"
    android:clickable="true"

    android:foreground="?android:attr/selectableItemBackground">

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">

        <ImageView
            android:layout_width="80dp"
            android:layout_height="80dp"
            android:src="@drawable/ic_mhs"
            android:layout_gravity="center_vertical"/>
        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            android:layout_gravity="center_vertical">

            <TextView
                android:id="@+id/tv_nama"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Nama mahasiswa"
                android:textSize="20sp"
                android:textColor="@android:color/black"/>

            <TextView
                android:id="@+id/tv_nim"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="NIM Mahasiswa"
                android:layout_marginTop="5dp"/>
        </LinearLayout>
    </LinearLayout>
```

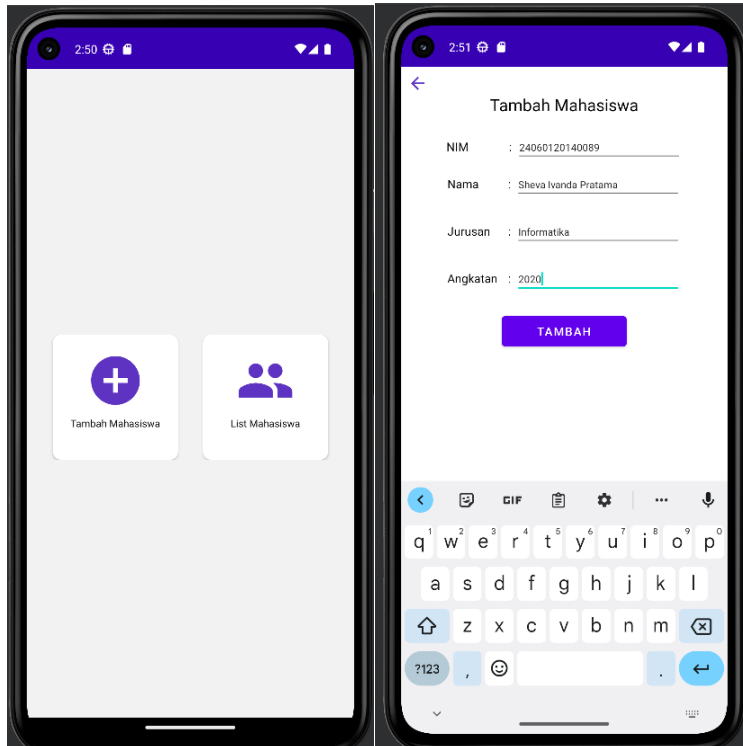
```
</LinearLayout>
```

```
</LinearLayout>
```

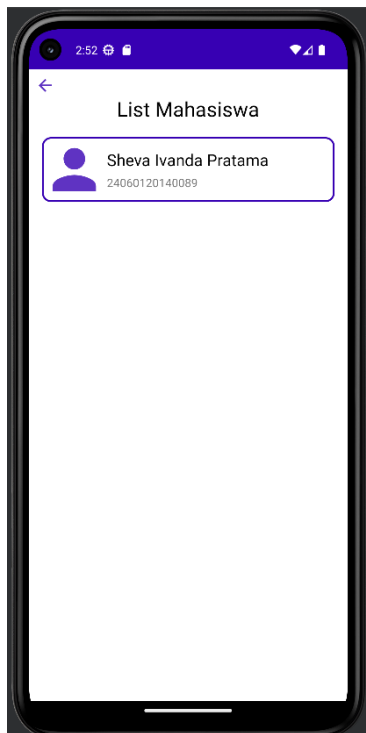
Hasil:

Main Menu

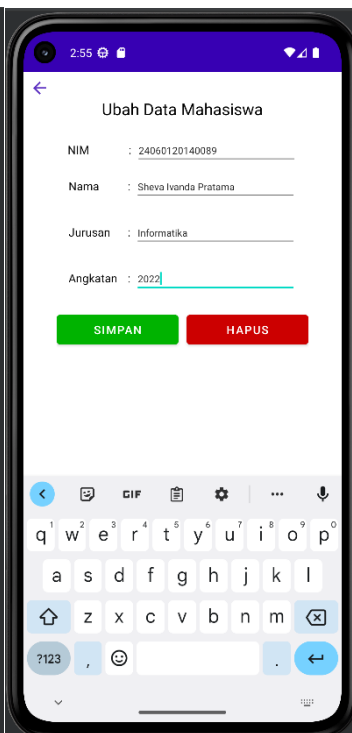
Tambah Mahasiswa



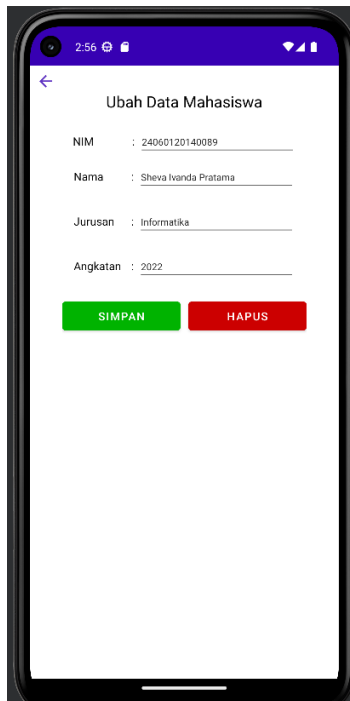
## List Mahasiswa



## Edit Mahasiswa



## Setelah di edit (Angkatan)



## List Mahasiswa Setelah di hapus

