LAPORAN PRAKTIKUM
MATAKULIAH PEMROGRAMAN MOBILE 2
Pertemuan 3

Oleh:

NAMA   :   **Ipo Novianto**

NIM   :   **19SA1329**

PRODI INFORMATIKA
FAKULTAS ILMU KOMPUTER
UNIVERSITAS AMIKOM PURWOKERTO
2020

A. Screenshots Kode Program

activity_main.xml

```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"
    android:orientation="vertical"
    android:padding="8dp"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center_horizontal"
        android:text="Tim Nasional Indonesia Senior"
        android:textSize="24sp"/>

    <androidx.recyclerview.widget.RecyclerView
        android:layout_marginTop="8dp"
        android:id="@+id/recView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"/>

</LinearLayout>
```

list_item_data.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/layout_list_recView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="8dp">

    <TextView
        android:id="@+id/textViewNama"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Ipo Novianto"
        android:textSize="18sp"/>

    <TextView
        android:id="@+id/textViewPosisi"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Depan"/>

    <TextView
        android:id="@+id/textViewClub"
        android:layout_width="wrap_content"
```

```xml
            android:layout_height="wrap_content"
            android:text="Persib Bandung"/>


</LinearLayout>
```

ListDataAdapter.java

```java
package com.example.pert_3_19sa1329_iponovianto;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;

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


import java.util.ArrayList;

public class ListDataAdapter extends
        RecyclerView.Adapter<ListDataAdapter.MyHolder>{
    private Context context;
    ArrayList<String>mNama =new ArrayList<>();
    ArrayList<String>mPosisi = new ArrayList<>();
    ArrayList<String>mClub = new ArrayList<>();

    public ListDataAdapter(Context context, ArrayList<String>mNama,

ArrayList<String>mPosisi,ArrayList<String>mClub){
        this.context=context;
        this.mNama=mNama;
        this.mPosisi=mPosisi;
        this.mClub=mClub;
    }


    @NonNull
    @Override
    public MyHolder onCreateViewHolder(@NonNull ViewGroup parent, int
viewType) {

        View view=

LayoutInflater.from(parent.getContext()).inflate(R.layout.list_item_dat
a,parent,false) ;
        MyHolder holder=new MyHolder(view);
        return holder;
    }

    @Override
    public void onBindViewHolder(@NonNull MyHolder holder,final int
position) {
        holder.textViewNama.setText(mNama.get(position));
```

```java
        holder.textViewPosisi.setText(mPosisi.get(position));
        holder.textViewClub.setText(mClub.get(position));

        holder.layout_list_data.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Toast.makeText(context, mNama.get(position).toString(),
Toast.LENGTH_SHORT).show();
            }
        });
    }
    @Override
    public int getItemCount() {
        return mNama.size();
    }
    class MyHolder extends RecyclerView.ViewHolder{
        ImageView imageViewFoto;
        TextView textViewNama,textViewClub,textViewPosisi;
        LinearLayout layout_list_data;

        public MyHolder(@NonNull View itemView){
            super(itemView);
            textViewNama=itemView.findViewById(R.id.textViewNama);
            textViewPosisi=itemView.findViewById(R.id.textViewPosisi);
            textViewClub=itemView.findViewById(R.id.textViewClub);

layout_list_data=itemView.findViewById(R.id.layout_List_recView);
        }
    }
}
```

MainActivity.java

```java
package com.example.pert_3_19sa1329_iponovianto;

import android.os.Bundle;
import android.widget.Toast;


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

import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;

import java.io.InputStream;
import java.util.ArrayList;



import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;


public class MainActivity extends AppCompatActivity {

    ArrayList<String>mNama=new ArrayList<>();
    ArrayList<String>mClub=new ArrayList<>();
    ArrayList<String>mPosisi=new ArrayList<>();
```

```java
    RecyclerView recyclerView;

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

        try {
            InputStream istream=getAssets().open("userdata.xml");

            DocumentBuilderFactory builderFactory=
                    DocumentBuilderFactory.newInstance();
            DocumentBuilder
docBuilder=builderFactory.newDocumentBuilder();
            Document doc=docBuilder.parse(istream);
            NodeList nList=doc.getElementsByTagName("user");


            for(int i = 0;i<nList.getLength();i++){
                if(nList.item(0).getNodeType()==Node.ELEMENT_NODE){
                    Element elm=(Element)nList.item(i);
                    mNama.add(getNodeValue("nama",elm));
                    mClub.add(getNodeValue("club",elm));
                    mPosisi.add(getNodeValue("posisi",elm));
                }

            }
        }catch (Exception e){

Toast.makeText(this,"Error:"+e.getMessage().toString(),Toast.LENGTH_SHO
RT).show();
        }

        recyclerView=(RecyclerView)findViewById(R.id.recView);
        ListDataAdapter adapter=new
ListDataAdapter(this,mNama,mPosisi,mClub);
        recyclerView.setAdapter(adapter);
        recyclerView.setLayoutManager(new LinearLayoutManager(this));
    }
    protected String getNodeValue(String tag,Element element){
        NodeList nodeList=element.getElementsByTagName(tag);
        Node node=nodeList.item(0);
        if (node!=null){
            if (node.hasChildNodes()){
                Node child=node.getFirstChild();
                while (child !=null){
                    if (child.getNodeType()==Node.TEXT_NODE){
                        return child.getNodeValue();
                    }
                }
            }
        }
        return "";
    }
}
```

userdata.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<users>
    <user>
        <nama>Andritany Ardhiyasa</nama>
        <posisi>Penjaga Gawang</posisi>
        <club>Persija</club>
    </user>

    <user>
        <nama>Nadeo Arga Winata</nama>
        <posisi>Penjaga Gawang</posisi>
        <club>Bali United</club>
    </user>

    <user>
        <nama>Ricky Fajrin</nama>
        <posisi>Bek</posisi>
        <club>Bali United</club>
    </user>

    <user>
        <nama>Andy Setyo</nama>
        <posisi>Bek</posisi>
        <club>Tira Persikabo</club>
    </user>

    <User>
        <nama>Hansamu Yama</nama>
        <posisi>Bek</posisi>
        <club>Persebaya</club>
    </User>
    <user>
        <nama>Rachmat Irianto</nama>
        <posisi>Tengah</posisi>
        <club>Persebaya</club>
    </user>

    <user>
        <nama>TM Ichsan</nama>
        <posisi>Tengah</posisi>
        <club>Persija</club>
    </user>

    <user>
        <nama>Bayu Pradana</nama>
        <posisi>Tengah</posisi>
        <club>Barito Putera</club>
    </user>

    <user>
        <nama>Septian David</nama>
        <posisi>Tengah</posisi>
        <club>PSIS</club>
    </user>

    <user>
        <nama>M. Rafli</nama>
        <posisi>Depan</posisi>
        <club>Arema FC</club>
```

```xml
        </user>

    <user>
        <nama>Ilija Spasojevic</nama>
        <posisi>Depan</posisi>
        <club>Bali United</club>
    </user>

    <user>
        <nama>Lerby Eliandri</nama>
        <posisi>Depan</posisi>
        <club>Bali United</club>
    </user>

    <user>
        <nama>Irfan Jauhari</nama>
        <posisi>Depan</posisi>
        <club>Bali United</club>
    </user>
</users>
```

B. Hasil