

LAPORAN
PRAKTIKUM MOBILE PROGRAMMING

MODUL 3

LAYOUT USER INTERFACE

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DSE A



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BAB I

HASIL PRAKTIKUM

1.1 Latihan 1 : LinearLayout.xml

A. Source Code

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Muhammad_Ramdhani_3411181029"
        />
    <TextView
        android:id="@+id/txt"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="jari_jari"
        android:textSize="20sp">

    </TextView>
    <EditText
        android:id="@+id/txtEdit"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:hint="type_here"
        android:text="">

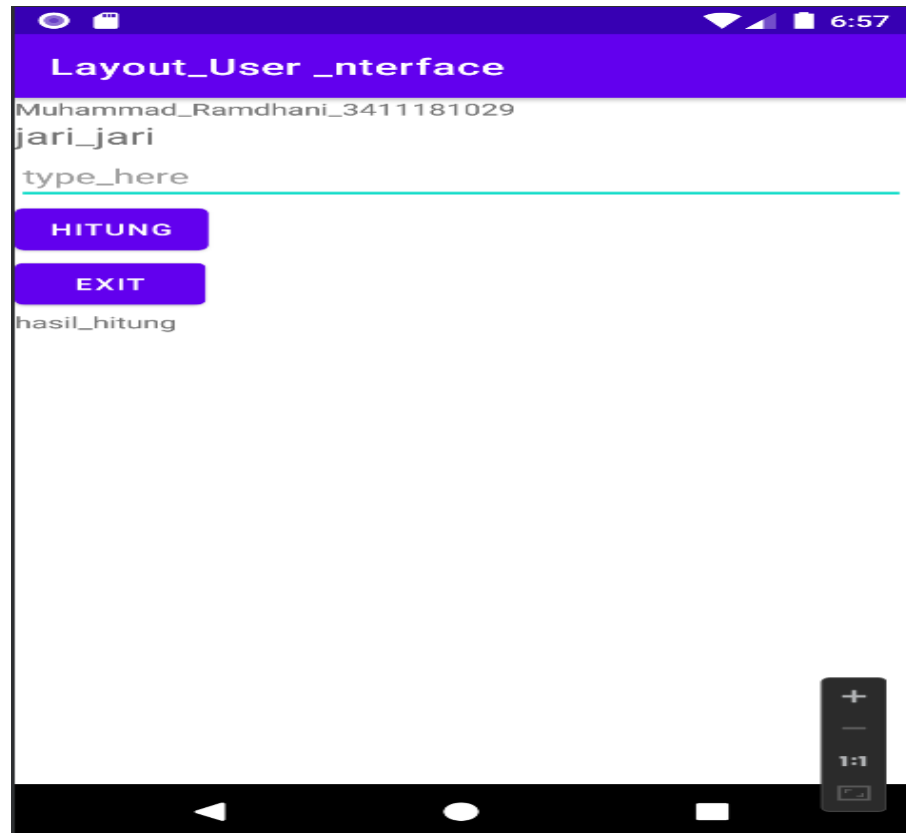
    </EditText>
    <Button
        android:id="@+id/btn1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="hitung">

    </Button>
    <Button
        android:id="@+id/btn2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="exit">

    </Button>
    <TextView
        android:id="@+id/txtTampil"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="hasil_hitung">

    </TextView>
</LinearLayout>
```

B. Screenshoot



C. Analisis

Merupakan contoh penggunaan liner layout, linear layout akan menampilkan elemen-elemen View secara garis lurus, baik vertical ataupun horizontal.

1.2 Latihan 2 : RelativeLayout.xml

A. Source Code

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/RelativeLayout01"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="relative_layout"
        android:id="@+id/first"
    />
    <TextView
        android:id="@+id/txtNama"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Muhammad Ramdhani"
        android:textSize="24sp"
        android:layout_below="@+id/first" />
    <TextView
        android:id="@+id/txtNumber"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="nim 3411181023"
        android:layout_below="@+id/txtNama" />

    <Button
        android:id="@+id/btnEdit"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Ubah"
        android:layout_below="@+id/txtNumber"
        android:layout_marginTop="15dp"/>
    <Button
        android:id="@+id/btnCall"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Call"
        android:layout_below="@+id/txtNumber"
        android:layout_toRightOf="@+id/btnEdit"
        android:layout_marginTop="15dp"/>

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="135dp"
        android:layout_height="58dp"
        android:layout_alignParentEnd="true"
        android:layout_marginEnd="1dp"
        app:srcCompat="@drawable/img" />
</RelativeLayout>
```

B. Screenshoot



C. Analisis

Relative layout memungkinkan menyusun tata letak secara lebih leluasa, Posisi setiap widget bisa diatur relatif pada widget yang lainnya (dibawah atau disamping widget sebelumnya).

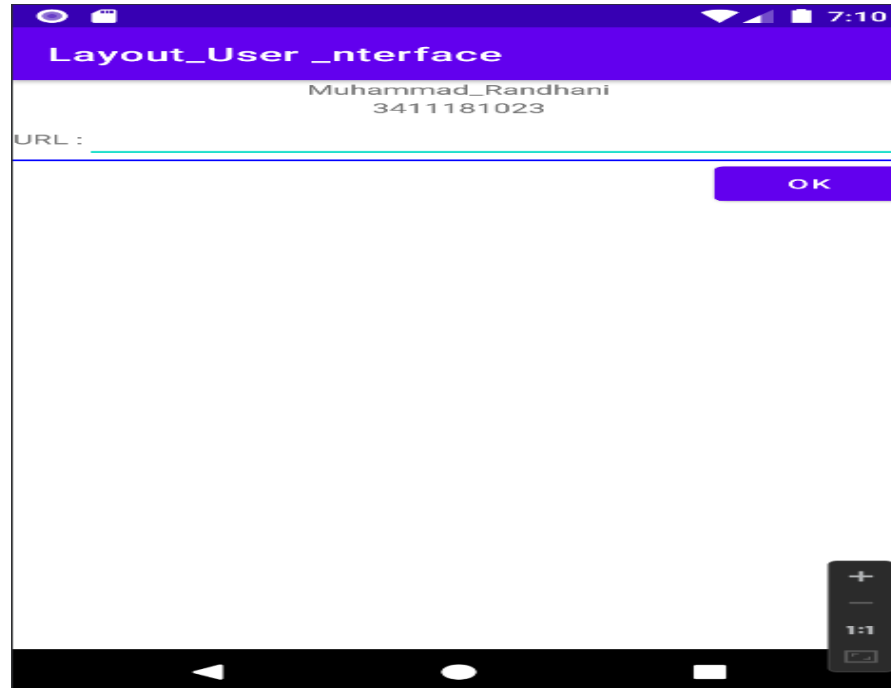
1.3 Latihan 3 : TableLayout.xml

A. Source Code

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:stretchColumns="1"
    tools:context=".MainActivity">

    <TableRow>
        <TextView
            android:text="Muhammad_Randhani"
            android:layout_span="4"
            android:layout_gravity="center"
            tools:ignore="HardcodedText" />
    </TableRow>
    <TableRow>
        <TextView
            android:text="3411181006"
            android:layout_span="4"
            android:layout_gravity="center"
            tools:ignore="HardcodedText" />
    </TableRow>
    <TableRow>
        <TextView
            android:text="URL :"
            tools:ignore="HardcodedText" />
        <EditText
            android:id="@+id/entry"
            android:layout_span="3"
            tools:ignore="Autofill,LabelFor,TextFields" />
    </TableRow>
    <View
        android:layout_height="2dp"
        android:background="#0000FF"
        tools:ignore="PxUsage" />
    <TableRow>
        <Button
            android:id="@+id/cancel"
            android:layout_column="2"
            android:text="OK"
            tools:ignore="HardcodedText" />
    </TableRow>
</TableLayout>
```

B. Screenshoot



C. Analisis

TableLayout merupakan bagaimana widget atau View bekerja dengan baris dan kolom serta mengatasi sebuah widget atau view yang memakai lebih dari satu kolom untuk penampilanya.

1.4 Latihan 4 : ScrollLayout.xml

A. Source Code

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:tools="http://schemas.android.com/tools"
    tools:context=".MainActivity">
    <TableLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:stretchColumns="0"
        tools:ignore="ScrollViewSize">
        <TableRow>
            <View
                android:layout_height="80px"
                android:background="#000000"
                tools:ignore="PxUsage" />
            <TextView
                android:layout_gravity="clip_horizontal"/>
            <TextView
                android:layout_gravity="center_vertical"
                android:paddingLeft="4px"
                android:text="#000000"
                tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
        </TableRow>
        <TableRow>
            <View
                android:layout_height="80px"
                android:background="#cccccc"
                tools:ignore="PxUsage" />
            <TextView
                android:layout_gravity="center_vertical"
                android:paddingLeft="4px"
                android:text="#cccccc"
                tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
        </TableRow>
    </TableLayout>
</ScrollView>
```

```

<TableRow tools:ignore="ExtraText"><![CDATA[
]]><View
    android:layout_height="80px"
    android:background="#d44ec7"
    tools:ignore="PxUsage" />
    <TextView
        android:layout_gravity="center_vertical"
        android:paddingLeft="4px"
        android:text="#d44ec7"
        tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
</TableRow>
<TableRow>
    <View
        android:layout_height="80px"
        android:background="#844eff"
        tools:ignore="PxUsage" />
    <TextView
        android:layout_gravity="center_vertical"
        android:paddingLeft="4px"
        android:text="#844eff"
        tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
</TableRow>
<TableRow>
    <View
        android:layout_height="80px"
        android:background="#045f11"
        tools:ignore="PxUsage" />
    <TextView
        android:layout_gravity="center_vertical"
        android:paddingLeft="4px"
        android:text="#045f11"
        tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
</TableRow>
<TableRow>
    <View
        android:layout_height="80px"
        android:background="#440000"
        tools:ignore="PxUsage" />
    <TextView
        android:layout_gravity="center_vertical"
        android:paddingLeft="4px"
        android:text="#440000"
        tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
</TableRow>
<TableRow>
    <View
        android:layout_height="80px"
        android:background="#884400"
        tools:ignore="PxUsage" />
    <TextView
        android:layout_gravity="center_vertical"
        android:paddingLeft="4px"
        android:text="#884400"
        tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
</TableRow>
<TableRow>
    <View
        android:layout_height="80px"
        android:background="#aa8844"
        tools:ignore="PxUsage" />
    <TextView
        android:layout_gravity="center_vertical"
        android:paddingLeft="4px"

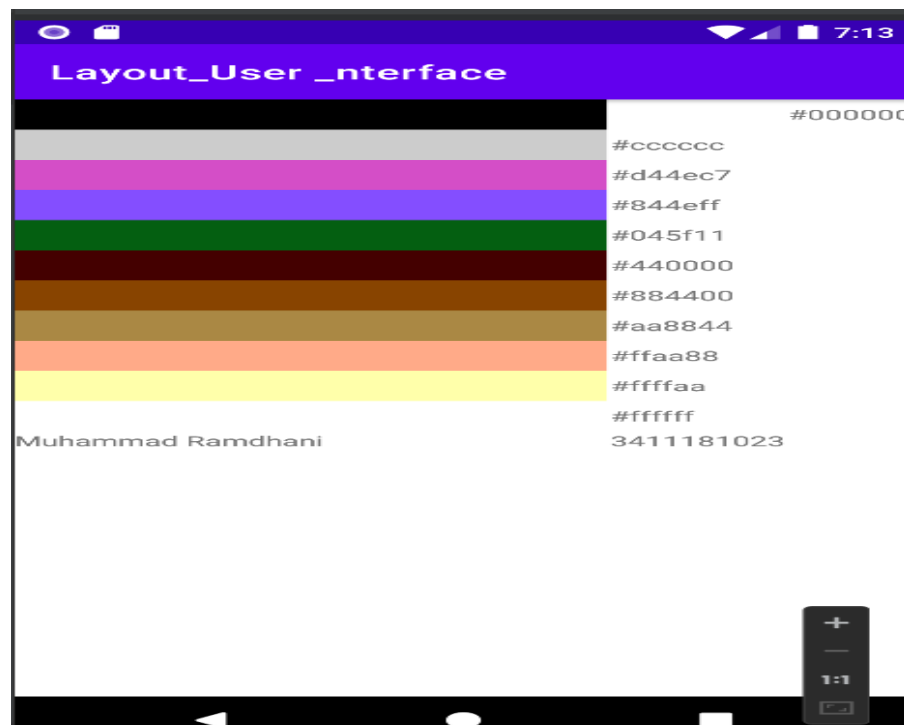
```

```

        android:text="#aa8844"
        tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
    </TableRow>
    <TableRow>
        <View
            android:layout_height="80px"
            android:background="#ffaa88"
            tools:ignore="PxUsage" />
        <TextView
            android:layout_gravity="center_vertical"
            android:paddingLeft="4px"
            android:text="#ffaa88"
            tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
    </TableRow>
    <TableRow>
        <View
            android:layout_height="80px"
            android:background="#ffffaa"
            tools:ignore="PxUsage" />
        <TextView
            android:layout_gravity="center_vertical"
            android:paddingLeft="4px"
            android:text="#ffffaa"
            tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
    </TableRow>
    <TableRow>
        <View
            android:layout_height="80px"
            android:background="#ffffff"
            tools:ignore="PxUsage" />
        <TextView
            android:layout_gravity="center_vertical"
            android:paddingLeft="4px"
            android:text="#ffffff"
            tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
    </TableRow>
    <TableRow>
        <TextView
            android:text="Muhammad Ramdhani"
            tools:ignore="HardcodedText" />
        <TextView
            android:layout_gravity="center_vertical"
            android:paddingLeft="4px"
            android:text="3411181023"
            tools:ignore="HardcodedText,PxUsage,RtlHardcoded,RtlSymmetry" />
    </TableRow>
</TableLayout>
</ScrollView>

```

B. Screenshot



C. Analisis

ScrollView merupakan tampilan layout yang lebih panjang dari space layar, sebagian informasi akan muncul dalam satu waktu, sisanya akan muncul jika pengguna melakukan scroll ke atas atau ke bawah.

1.5 Latihan 5 : ActivityMain.xml

A. Source Code

```
<?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:background="@color/colorAzur"
    tools:context=".MainActivity">

    <androidx.cardview.widget.CardView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="30dp"
        app:cardCornerRadius="10dp">
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical">

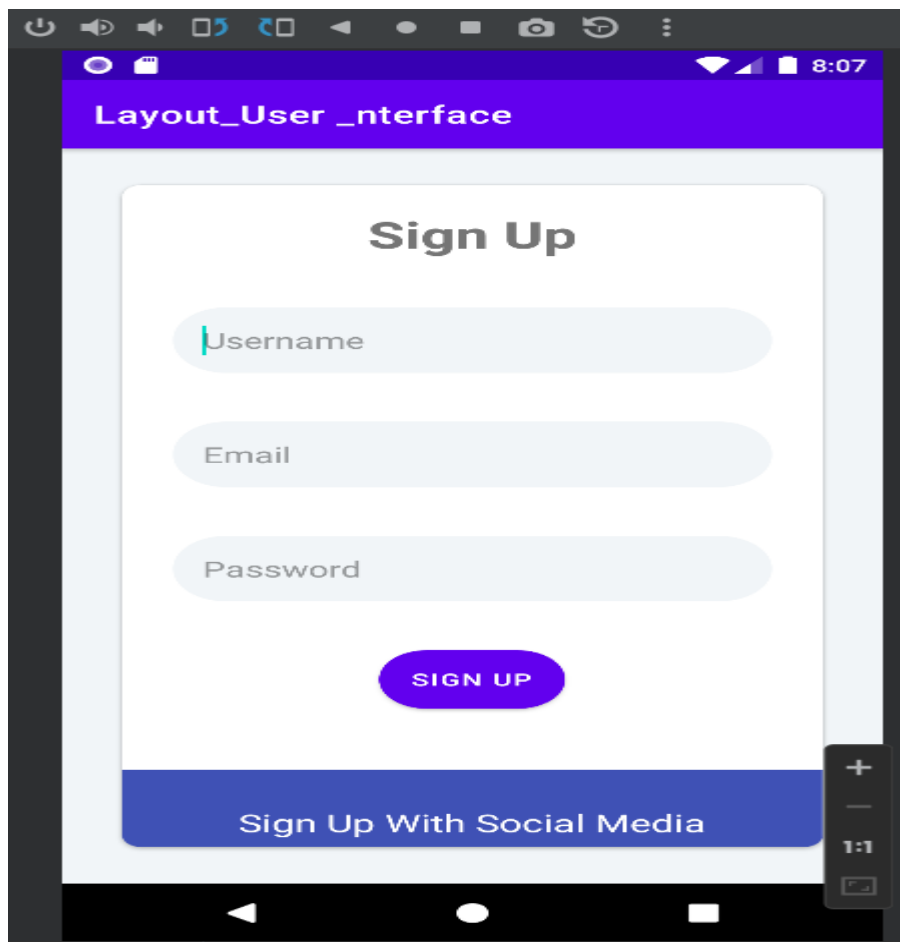
            <TextView
```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:text="Sign Up"
        android:textSize="30sp"
        android:textStyle="bold"
        android:layout_gravity="center_horizontal"/>
<EditText
    android:layout_width="300dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:hint="Username"
    android:layout_gravity="center_horizontal"
    android:background="@drawable/edittextstyle"/>
<EditText
    android:layout_width="300dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:hint="Email"
    android:layout_gravity="center_horizontal"
    android:background="@drawable/edittextstyle"/>
<EditText
    android:layout_width="300dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:hint="Password"
    android:layout_gravity="center_horizontal"
    android:background="@drawable/edittextstyle"/>
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:layout_marginTop="40dp"
    android:text="SIGN UP"
    android:textColor="@color/colorWhite"
    android:background="@drawable/buttonstyle"/>
<TextView
    android:layout_width="351dp"
    android:layout_height="192dp"
    android:layout_gravity="center_horizontal"
    android:layout_marginTop="50dp"
    android:paddingTop="30dp"
    android:textAlignment="center"
    android:textSize="20dp"
    android:textColor="@color/colorWhite"
    android:background="@color/colorPrimary"
    android:text="Sign Up With Social Media" />
</LinearLayout>
</androidx.cardview.widget.CardView>
</LinearLayout>

```

B. Screenshoot



C. Analisis

Membuat Tampilan Sign up yang menggunakan Color.xml, Theme.xml, EditTextStyle.xml, ButtonStyle.xml dan ActivityMain.xml

BAB III

KESIMPULAN

Pada praktikum kali ini kita belajar di Android Studio yaitu memahami dan mengimplementasikan cara bagaimana membuat Sign Up serta tampilan-tampilan Layout mulai dari Linear Layout, Relative Layout, Table Layout, dan Scroll Layout