

# **LAPORAN WORKSHOP APLIKASI MOBILE**

## **INTENT**



**SEMESTER 4**

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**D4 TEKNIK INFORMATIKA**

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## Activity main (Tampilan Layout Awal)

Source kode :

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      android:orientation="vertical"
8      tools:context=".MainActivity">
9
10     <LinearLayout
11         android:layout_width="match_parent"
12         android:layout_height="130dp"
13         android:layout_marginTop="50dp"
14         android:orientation="horizontal">
15
16         <LinearLayout
17             android:layout_width="110dp"
18             android:layout_height="match_parent"
19             android:gravity="center"
20             android:orientation="vertical"
21             android:layout_marginLeft="20dp"
22             tools:context=".MainActivity">
23             <Button
24                 android:onClick="linear"
25                 android:id="@+id/LinearLayout"
26                 android:layout_width="90dp"
27                 android:layout_height="80dp"
```

```

24         android:onClick="linear"
25         android:id="@+id/LinearLayout"
26         android:layout_width="90dp"
27         android:layout_height="80dp"
28         android:layout_weight="1"
29         android:background="@drawable/bg"
30         android:text="1"
31         android:textSize="40sp"/>
32     <TextView
33         android:id="@+id/textLinearLayout"
34         android:layout_width="match_parent"
35         android:layout_height="35dp"
36         android:text="Linear Layout"
37         android:gravity="center"
38         android:layout_marginTop="5dp"
39         android:textStyle="bold"/>
40 </LinearLayout>

```

```

42 <LinearLayout
43     android:layout_width="110dp"
44     android:layout_height="match_parent"
45     android:gravity="center"
46     android:orientation="vertical"
47     android:layout_marginLeft="20dp"
48     tools:context=".MainActivity">
49     <Button
50         android:onClick="relative"
51         android:id="@+id/RelativeLayout"
52         android:layout_width="90dp"
53         android:layout_height="80dp"
54         android:layout_weight="1"
55         android:background="@drawable/bg"
56         android:text="2"
57         android:textSize="40sp"/>
58     <TextView
59         android:id="@+id/textRelativeLayout"
60         android:layout_width="match_parent"
61         android:layout_height="35dp"
62         android:text="Relative Layout"
63         android:gravity="center"
64         android:layout_marginTop="5dp"
65         android:textStyle="bold"/>
66 </LinearLayout>

```

```
68 <LinearLayout
69     android:layout_width="110dp"
70     android:layout_height="match_parent"
71     android:gravity="center"
72     android:orientation="vertical"
73     android:layout_marginLeft="20dp"
74     tools:context=".MainActivity">
75     <Button
76         android:onClick="constraint"
77         android:id="@+id/ConstraintLayout"
78         android:layout_width="90dp"
79         android:layout_height="80dp"
80         android:layout_weight="1"
81         android:background="@drawable/bg"
82         android:text="3"
83         android:textSize="40sp"/>
84     <TextView
85         android:id="@+id/textConstrainLayout"
86         android:layout_width="match_parent"
87         android:layout_height="35dp"
88         android:text="Constraint Layout"
89         android:gravity="center"
90         android:layout_marginTop="5dp"
91         android:textStyle="bold"/>
92 </LinearLayout>
```

Hasil:



a. Button 1

Ketika button di klik maka akan menampilkan hasil dari linear layout yang dihubungkan oleh file MainActivity.java.

Source code:

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout
3     xmlns:android="http://schemas.android.com/apk/res/android"
4     android:layout_width="match_parent"
5     android:layout_height="match_parent"
6     android:paddingLeft="16dp"
7     android:paddingRight="16dp"
8     android:orientation="vertical" >
9     <EditText
10         android:layout_width="match_parent"
11         android:layout_height="wrap_content"
12         android:hint="to" />
13     <EditText
14         android:layout_width="match_parent"
15         android:layout_height="wrap_content"
16         android:hint="subject" />
17     <EditText
18         android:layout_width="match_parent"
19         android:layout_height="0dp"
20         android:layout_weight="1"
21         android:gravity="top"
22         android:hint="message"/>
23     <Button
24         android:layout_width="100dp"
25         android:layout_height="wrap_content"
26         android:layout_gravity="right"
27         android:text="send"/>
```

## MainActivity.java

```
17 public void linear(View view) {  
18     Intent intent = new Intent( packageContext MainActivity.this, linear_layout.class);  
19     startActivity(intent); //fungsi untuk membuka layout yg lain  
20 }
```

Linear layout berfungsi untuk menampung view lainnya. View yang berada di dalam linear layout akan tersusun secara berurutan dalam arah vertical ataupun horizontal.

Hasil:



### b. Button 2

Ketika button di klik maka akan menampilkan hasil dari relative layout yang dihubungkan oleh file MainActivity.java.

Source code:

```

42 | <LinearLayout
43 |     android:layout_width="110dp"
44 |     android:layout_height="match_parent"
45 |     android:gravity="center"
46 |     android:orientation="vertical"
47 |     android:layout_marginLeft="20dp"
48 |     tools:context=".MainActivity">
49 |     <Button
50 |         android:onClick="relative"
51 |         android:id="@+id/RelativeLayout"
52 |         android:layout_width="90dp"
53 |         android:layout_height="80dp"
54 |         android:layout_weight="1"
55 |         android:background="@drawable/bg"
56 |         android:text="2"
57 |         android:textSize="40sp"/>
58 |     <TextView
59 |         android:id="@+id/textRelativeLayout"
60 |         android:layout_width="match_parent"
61 |         android:layout_height="35dp"
62 |         android:text="Relative Layout"
63 |         android:gravity="center"
64 |         android:layout_marginTop="5dp"
65 |         android:textStyle="bold"/>
66 | </LinearLayout>

```

MainActivity.java

```

22 | public void relative(View view) {
23 |     Intent intent = new Intent( packageContext: MainActivity.this, relative_layout.class);
24 |     startActivity(intent);
25 | }

```

Relative layout berfungsi untuk mengatur tata letak komponen atau widget aplikasi android dengan cara relative (secara bebas) tidak hanya vertikal atau horisontal saja seperti pada Linear Layout.

```
activity_main.xml x MainActivity.java x activity_relative_layout.xml x a
1 <?xml version="1.0" encoding="utf-8"?>
2 <RelativeLayout
3     xmlns:android="http://schemas.android.com/apk/res/android"
4     android:layout_width="match_parent"
5     android:layout_height="match_parent"
6     android:paddingLeft="16dp"
7     android:paddingRight="16dp" >
8
9     <EditText
10        android:id="@+id/name"
11        android:layout_width="match_parent"
12        android:layout_height="wrap_content"
13        android:hint="reminder" />
14
15    <Spinner
16        android:id="@+id/dates"
17        android:layout_width="0dp"
18        android:layout_height="wrap_content"
19        android:layout_below="@+id/name"
20        android:layout_alignParentStart="true"
21        android:layout_toStartOf="@+id/times" />
22
23    <Spinner
24        android:id="@+id/times"
25        android:layout_width="96dp"
26        android:layout_height="wrap_content"
27        android:layout_below="@+id/name"
28        android:layout_alignParentEnd="true" />
29
30    <Button
31        android:layout_width="96dp"
32        android:layout_height="wrap_content"
33        android:layout_below="@+id/times"
34        android:layout_alignParentEnd="true"
35        android:text="done" />
36
37 </RelativeLayout>
```



Hasil:



c. Button 3

Ketika button di klik maka akan menampilkan hasil dari constraint layout yang dihubungkan oleh file MainActivity.java.

Source kode:

```
activity_constraint_layout.xml x
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout
3     xmlns:android="http://schemas.android.com/apk/res/android"
4     xmlns:app="http://schemas.android.com/apk/res-auto"
5     xmlns:tools="http://schemas.android.com/tools"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     android:background="@drawable/abc"
9     tools:context=".ConstraintLayout">
10
11     <androidx.cardview.widget.CardView
12         android:layout_width="300dp"
13         android:layout_height="50dp"
14         app:layout_constraintEnd_toEndOf="parent"
15         app:layout_constraintStart_toStartOf="parent"
16         app:layout_constraintBottom_toBottomOf="parent"
17         app:cardCornerRadius="15dp"
18         app:cardElevation="20dp"
19         android:id="@+id/cardView"
20         app:cardBackgroundColor="@color/colorAccent"
21         android:layout_marginBottom="50dp">
22         <androidx.constraintlayout.widget.ConstraintLayout
23             android:layout_width="match_parent"
24             android:layout_height="match_parent">
25             <TextView
```

```
activity_constraint_layout.xml x
25 <TextView
26     android:text="Login"
27     android:layout_width="wrap_content"
28     android:layout_height="wrap_content"
29     app:layout_constraintTop_toTopOf="parent"
30     app:layout_constraintStart_toStartOf="parent"
31     android:layout_marginTop="8dp"
32     app:layout_constraintEnd_toEndOf="parent"
33     android:id="@+id/textView"
34     android:layout_marginBottom="8dp"
35     app:layout_constraintBottom_toBottomOf="parent"
36     android:fontFamily="sans-serif"
37     android:textColor="@android:color/background_light"
38     android:textSize="24sp"
39     app:layout_constraintVertical_bias="1.0" />
40 </androidx.constraintlayout.widget.ConstraintLayout>
41 </androidx.cardview.widget.CardView>
42 <androidx.cardview.widget.CardView
43     android:layout_width="320dp"
44     android:layout_height="400dp"
45     app:layout_constraintStart_toStartOf="parent"
46     app:layout_constraintEnd_toEndOf="parent"
47     app:layout_constraintTop_toTopOf="parent"
48     android:layout_marginTop="8dp"
49     android:layout_marginBottom="8dp"
```

```
activity_constraint_layout.xml x
49         android:layout_marginBottom="8dp"
50         app:layout_constraintBottom_toTopOf="@+id/cardView"
51         app:cardCornerRadius="15dp"
52         app:cardElevation="20dp"
53         app:layout_constraintVertical_bias="0.781"
54         android:id="@+id/cardView2">
55     <androidx.constraintlayout.widget.ConstraintLayout
56         android:layout_width="match_parent"
57         android:layout_height="match_parent">
58         <ImageView
59             android:layout_width="150dp"
60             android:layout_height="150dp"
61             app:srcCompat="@drawable/sumenep"
62             app:layout_constraintStart_toStartOf="parent"
63             app:layout_constraintEnd_toEndOf="parent"
64             android:id="@+id/imageView"
65             android:layout_marginTop="36dp"
66             app:layout_constraintTop_toTopOf="parent"
67             android:layout_marginBottom="8dp"
68             app:layout_constraintBottom_toBottomOf="parent"
69             app:layout_constraintVertical_bias="0.0" />
70         <com.google.android.material.textfield.TextInputLayout
71             android:layout_width="300dp"
72             android:layout_height="wrap_content"
73             app:layout_constraintStart_toStartOf="parent"
```

```
activity_constraint_layout.xml x
73         app:layout_constraintStart_toStartOf="parent"
74         app:layout_constraintEnd_toEndOf="parent"
75         android:id="@+id/textInputLayout2"
76         app:layout_constraintTop_toBottomOf="@id/imageView"
77         android:layout_marginTop="50dp"
78         style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
79         app:passwordToggleTint="@color/colorAccent">
80     <com.google.android.material.textfield.TextInputEditText
81         android:layout_width="match_parent"
82         android:layout_height="wrap_content"
83         android:hint="Email"
84         android:inputType="textEmailAddress" />
85 </com.google.android.material.textfield.TextInputLayout>
86 <com.google.android.material.textfield.TextInputLayout
87     android:layout_width="300dp"
88     android:layout_height="wrap_content"
89     app:layout_constraintEnd_toEndOf="parent"
90     android:layout_marginBottom="16dp"
91     app:layout_constraintStart_toStartOf="parent"
92     app:layout_constraintBottom_toBottomOf="parent"
93     android:id="@+id/textInputLayout3"
94     android:layout_marginTop="8dp"
95     app:layout_constraintTop_toBottomOf="@id/textInputLayout2"
96     style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
97     app:passwordToggleTint="@color/colorAccent">
```

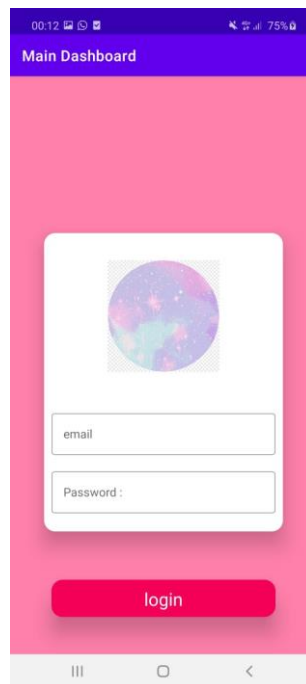
```
activity_constraint_layout.xml
88         android:layout_height="wrap_content"
89         app:layout_constraintEnd_toEndOf="parent"
90         android:layout_marginBottom="16dp"
91         app:layout_constraintStart_toStartOf="parent"
92         app:layout_constraintBottom_toBottomOf="parent"
93         android:id="@+id/textInputLayout3"
94         android:layout_marginTop="8dp"
95         app:layout_constraintTop_toBottomOf="@id/textInputLayout2"
96         style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
97         app:passwordToggleTint="@color/colorAccent">
98         <com.google.android.material.textfield.TextInputEditText
99             android:layout_width="match_parent"
100             android:layout_height="wrap_content"
101             android:hint="Password"
102             android:inputType="textPassword" />
103     </com.google.android.material.textfield.TextInputLayout>
104 </androidx.constraintlayout.widget.ConstraintLayout>
105 </androidx.cardview.widget.CardView>
106
107
108 </androidx.constraintlayout.widget.ConstraintLayout>
```

## MainActivity.java

```
27     public void constraint(View view) {
28         Intent intent = new Intent( packageContext: MainActivity.this, constraint_layout.class);
29         startActivity(intent);
30     }
```

Constraint Layout merupakan pengembangan dari Relative Layout, jadi bisa dibilang Layout ini lebih fleksibel. Layout ini pula didesain untuk lebih mudah menempatkan objek dengan cara diseret dan dilepaskan pada editor Layout, Android Studio.

Hasil:



d. Button 4

Ketika button di klik maka akan menampilkan hasil dari frame layout yang dihubungkan oleh file MainActivity.java.

Source kode :

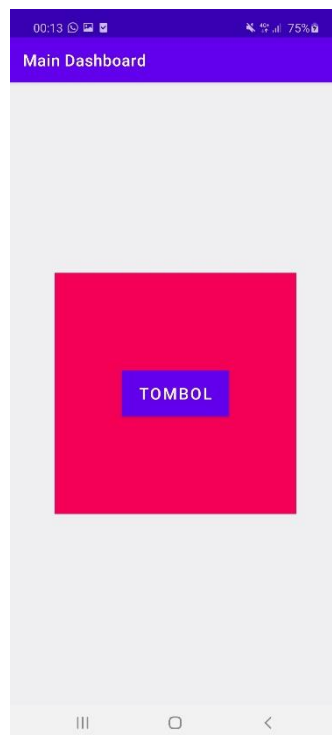
```
1  <?xml version="1.0" encoding="utf-8"?>
2  <FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:background="#1113">
6
7      <ImageView
8          android:layout_width="300dp"
9          android:layout_height="300dp"
10         android:layout_gravity="center"
11         android:background="@color/colorPrimary" />
12
13     <Button
14         android:layout_width="350px"
15         android:layout_height="150px"
16         android:layout_gravity="center"
17         android:text="Tombol"
18         android:background="@color/colorAccent"
19         android:textColor="#fff"
20         android:textSize="20sp" />
21
22 </FrameLayout>
```

AcitivityMain.java

```
32     public void frame(View view) {  
33         Intent intent = new Intent( packageContext MainActivity.this, frame_layout.class);  
34         startActivity(intent);  
35     }
```

FrameLayout adalah layout yang paling tepat untuk membuat beberapa UI saling tumpang tindih. Contohnya kita dapat menyisipkan widget (tombol) ke dalam widget lainnya (gambar).

Hasil:



e. Button 5

Ketika button di klik maka akan menampilkan hasil dari tabel layout yang dihubungkan oleh file MainActivity.java.

Souce kode:

```

1 |<?xml version="1.0" encoding="utf-8"?>
2 |<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"
3 |    android:layout_width="fill_parent"
4 |    android:layout_height="fill_parent"
5 |    xmlns:app="http://schemas.android.com/apk/res-auto">
6 |
7 |    <TableRow
8 |        android:paddingTop="10dp"
9 |        android:gravity="center"
10 |        android:layout_marginTop="20dp">
11 |
12 |        <TextView
13 |            android:id="@+id/status"
14 |            android:layout_width="wrap_content"
15 |            android:layout_gravity="center"
16 |            android:layout_span="2"
17 |            android:text="login"
18 |            android:textColor="#890000"
19 |            android:textSize="25sp"
20 |            android:textStyle="bold" />
21 |    </TableRow>
22 |
23 |    <TableRow
24 |        android:layout_marginTop="20dp">

```

```

23 |    <TableRow
24 |        android:layout_marginTop="20dp">
25 |
26 |        <TextView
27 |            android:layout_width="wrap_content"
28 |            android:text="Username :"
29 |            android:textSize="20sp"
30 |            android:textColor="#000000"
31 |            android:layout_marginStart="20dp" />
32 |
33 |        <EditText
34 |            android:id="@+id/screenName"
35 |            android:layout_height="wrap_content"
36 |            android:layout_marginLeft="20dp"
37 |            android:layout_marginRight="20dp"
38 |            android:layout_weight="1" />
39 |
40 |    </TableRow>
41 |
42 |    <TableRow
43 |        android:layout_marginTop="20dp">

```

```

45      <TextView
46          android:layout_width="wrap_content"
47          android:text="Password :"
48          android:textSize="20sp"
49          android:textColor="#000000"
50          android:layout_marginStart="20dip" />

51
52      <EditText
53          android:id="@+id/password"
54          android:layout_height="wrap_content"
55          android:layout_marginLeft="20dip"
56          android:layout_marginRight="20dip"
57          android:layout_weight="1" />
58
59  </TableRow>
60
61  <TableRow
62      android:gravity="center"
63      android:layout_marginTop="20dip">
64
65      <Button
66          android:text="Submit"
67          android:clickable="true"
68          android:layout_width="wrap_content"
69          android:layout_height="wrap_content"
70          android:id="@+id/save"
71          android:layout_span="2" />
72
73  </TableRow>
74
75  </TableLayout>

```

### MainActivity.java

```

37      public void tabel(View view) {
38          Intent intent = new Intent( packageContext: MainActivity.this, tabel_layout.class);
39          startActivity(intent);
40      }

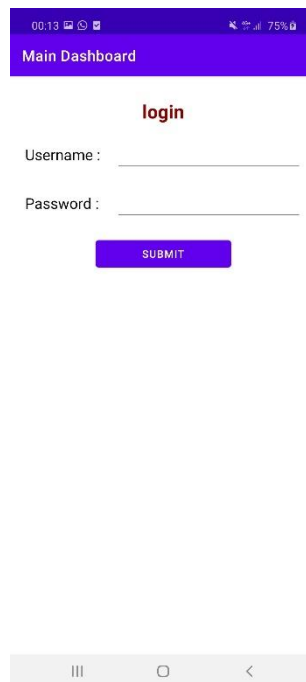
```

Tabel Layout adalah Layout yang digunakan untuk membangun user interface (tampilan antar muka ) aplikasi android dengan berdasarkan Baris dan Kolom.

Layout ini digunakan untuk keperluan tertentu saja karena kebanyakan pembangunan tampilan antar muka lebih sering memanfaatkan Relative Layout dan Linear Layout.



Hasil:



f. Button 6

Ketika button di klik maka akan menampilkan hasil dari material design yang dihubungkan oleh file MainActivity.java.

Source kode :

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout
3      xmlns:android="http://schemas.android.com/apk/res/android"
4      xmlns:app="http://schemas.android.com/apk/res-auto"
5      xmlns:tools="http://schemas.android.com/tools"
6      android:layout_width="match_parent"
7      android:layout_height="match_parent"
8      tools:context=".MainActivity"
9      tools:Ignore="ExtraText"
10  >
11
12  <Button
13      android:id="@+id/text_button"
14      style="@style/Widget.MaterialComponents.Button.TextButton"
15      android:layout_width="wrap_content"
16      android:layout_height="wrap_content"
17      android:text="Text Button"
18      android:textAllCaps="false"
19      app:layout_constraintBottom_toBottomOf="parent"
20      app:layout_constraintEnd_toEndOf="parent"
21      app:layout_constraintStart_toStartOf="parent"
22      app:layout_constraintTop_toTopOf="parent" />
23
24  </androidx.constraintlayout.widget.ConstraintLayout>
```

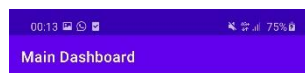
MainActivity.java

```
42     public void materialdesign(View view) {  
43         Intent intent = new Intent( packageContext: MainActivity.this, material_design.class);  
44         startActivity(intent);  
45     }
```

Material Design adalah library desain untuk OS Android yang dikembangkan oleh Google. Dirilis pertama kali untuk OS Android Versi 5 yaitu Lollipop dan diperkenalkan ke public pada acara Google I/O tanggal 25 Juni 2014.

Dengan menggunakan Material Design kita bisa membuat tampilan UI / UX (User Interface / User Experience) aplikasi android terlihat lebih nyata, bertekstur, modern, dan profesional.

Hasil:



Text Button



g. Button 7

Ketika button di klik maka akan menampilkan hasil dari scroll view yang dihubungkan oleh file MainActivity.java.

Source kode:

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:fillViewport="false">
6
7      <LinearLayout
8          xmlns:android="http://schemas.android.com/apk/res/android"
9          android:orientation="vertical"
10         android:layout_width="match_parent"
11         android:layout_height="match_parent" >
12
13         <TextView
14             android:id="@+id/loginscrn"
15             android:layout_width="wrap_content"
16             android:layout_height="wrap_content"
17             android:layout_marginTop="80dp"
18             android:text="ScrollView"
19             android:textSize="25dp"
20             android:textStyle="bold"
21             android:layout_gravity="center"/>
22
23         <TextView
24             android:id="@+id/fsTxt"
25             android:layout_width="wrap_content"
26             android:layout_height="wrap_content"
27             android:layout_marginTop="20dp"
28             android:text="Welcome Arini"
29             android:layout_gravity="center"/>

```

```

30
31         <Button
32             android:layout_width="wrap_content"
33             android:layout_height="wrap_content"
34             android:layout_gravity="center"
35             android:layout_marginTop="60dp"
36             android:text="Button One"/>
37
38         <Button
39             android:layout_width="wrap_content"
40             android:layout_height="wrap_content"
41             android:layout_gravity="center"
42             android:layout_marginTop="60dp"
43             android:text="Button Two"/>
44
45         <Button
46             android:layout_width="wrap_content"
47             android:layout_height="wrap_content"
48             android:layout_gravity="center"
49             android:layout_marginTop="60dp"
50             android:text="Button Three"/>
51
52         <Button
53             android:layout_width="wrap_content"
54             android:layout_height="wrap_content"
55             android:layout_gravity="center"
56             android:layout_marginTop="60dp"
57             android:text="Button Four"/>
58
59         <Button
60             android:layout_width="wrap_content"
61             android:layout_height="wrap_content"
62             android:layout_gravity="center"
63             android:layout_marginTop="60dp"
64             android:text="Button Five"/>

```

```

58     <Button
59         android:layout_width="wrap_content"
60         android:layout_height="wrap_content"
61         android:layout_gravity="center"
62         android:layout_marginTop="60dp"
63         android:text="Button Six"/>
64     <Button
65         android:layout_width="wrap_content"
66         android:layout_height="wrap_content"
67         android:layout_gravity="center"
68         android:layout_marginTop="60dp"
69         android:text="Button Seven"/>
70     <Button
71         android:layout_width="wrap_content"
72         android:layout_height="wrap_content"
73         android:layout_gravity="center"
74         android:layout_marginTop="60dp"
75         android:text="Button Eight"/>
76     <Button
77         android:layout_width="wrap_content"
78         android:layout_height="wrap_content"
79         android:layout_gravity="center"
80         android:layout_marginTop="60dp"
81         android:text="Button Nine"/>
82
83 </LinearLayout>
84 </ScrollView>

```

MainActivity.java

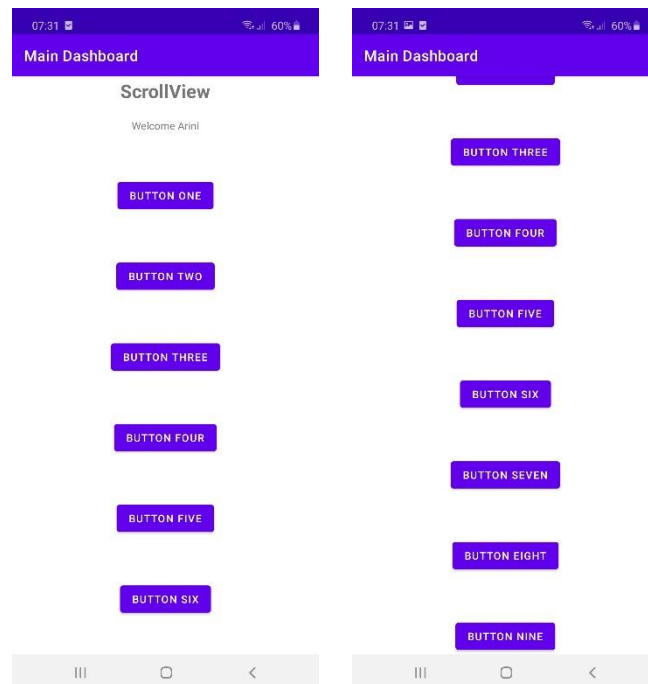
```

47     public void scrollview(View view) {
48         Intent intent = new Intent( packageContext: MainActivity.this, scroll_view.class);
49         startActivity(intent);
50     }

```

ScrollView adalah salah satu jenis komponen yang digunakan pada user interface di layout.xml. ScrollView berbeda dengan LinearLayout dan RelativeLayout, ScrollView berfungsi untuk memuat suatu layar agar dapat ditampilkan secara penuh, serta akan menambahkan scrollbar di samping layar. Untuk Scroll view vertical, scrollbar akan bergerak keatas dan ke bawah.

Hasil:



h. Button 8

Ketika button di klik maka akan menampilkan hasil dari scroll view horizontal yang dihubungkan oleh file MainActivity.java.

Source kode:

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <HorizontalScrollView xmlns:android="http://schemas.android.com/apk/res/android"
3   android:layout_width="match_parent"
4   android:layout_height="wrap_content"
5   android:fillViewport="true">
6
7   <LinearLayout
8     android:orientation="horizontal"
9     android:layout_width="match_parent"
10    android:layout_height="match_parent"
11    android:layout_marginTop="150dp">
12
13     <Button
14       android:layout_width="wrap_content"
15       android:layout_height="wrap_content"
16       android:text="Button One"/>
17
18     <Button
19       android:layout_width="wrap_content"
20       android:layout_height="wrap_content"
21       android:text="Button Two"/>
22
23     <Button
24       android:layout_width="wrap_content"
25       android:layout_height="wrap_content"
26       android:text="Button Three"/>
27     <Button
28       android:layout_width="wrap_content"
29       android:layout_height="wrap_content"
30       android:text="Button Four"/>
```

```

24      <Button
25          android:layout_width="wrap_content"
26          android:layout_height="wrap_content"
27          android:text="Button Four"/>
28      <Button
29          android:layout_width="wrap_content"
30          android:layout_height="wrap_content"
31          android:text="Button Five"/>
32      <Button
33          android:layout_width="wrap_content"
34          android:layout_height="wrap_content"
35          android:text="Button Six"/>
36      <Button
37          android:layout_width="wrap_content"
38          android:layout_height="wrap_content"
39          android:text="Button Seven"/>
40      <Button
41          android:layout_width="wrap_content"
42          android:layout_height="wrap_content"
43          android:text="Button Eight"/>
44      <Button
45          android:layout_width="wrap_content"
46          android:layout_height="wrap_content"
47          android:text="Button Nine"/>
48  </LinearLayout>
49
50 </HorizontalScrollView>

```

ActivityMain.java

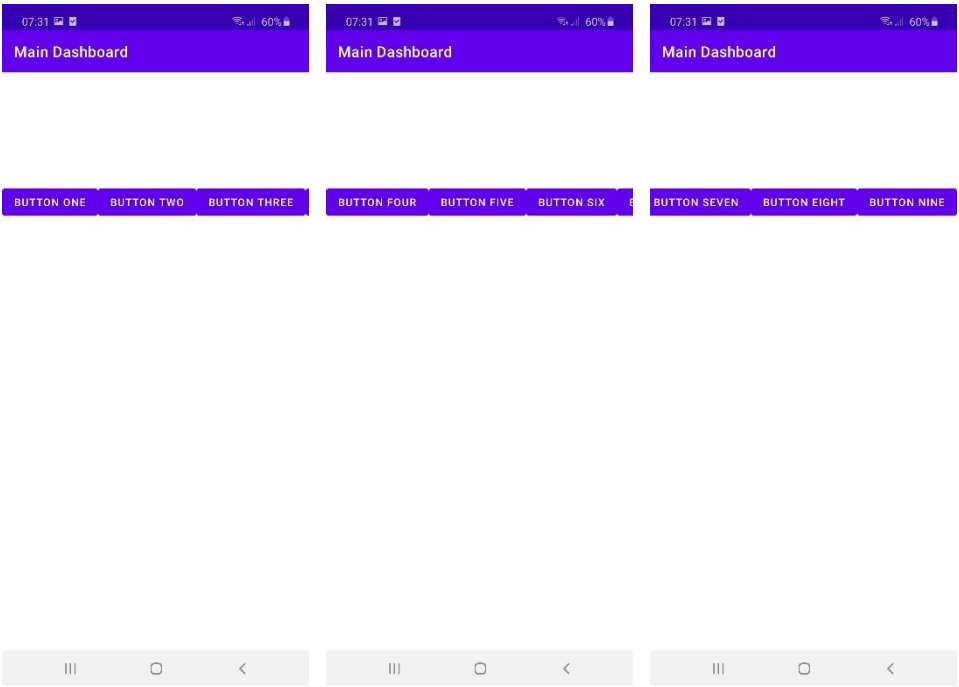
```

52      public void horizontal(View view) {
53          Intent intent = new Intent( packageContext: MainActivity.this, scroll_view_horizontal.class);
54          startActivity(intent);
55      }

```

Untuk scroll view horizontal, scrollbar akan bergerak ke samping kanan dan kiri.

Hasil :



## Intent Implicit dan Explicit

Di dalam Activity main terdapat 2 tombol yang akan mengarah ke halaman intent implicit dan intent explicit.

Source code:

```
activity_main.xml X
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="wrap_content"
6      android:layout_height="match_parent"
7      android:layout_gravity="center"
8      android:orientation="vertical"
9      android:paddingBottom="@dimen/activity_vertical_margin"
10     android:paddingLeft="@dimen/activity_horizontal_margin"
11     android:paddingRight="@dimen/activity_horizontal_margin"
12     android:paddingTop="@dimen/activity_vertical_margin"
13     tools:context=".MainActivity">
14
15     <Button
16         android:onClick="imp"
17         android:id="@+id/implicit"
18         android:layout_width="match_parent"
19         android:layout_height="wrap_content"
20         android:layout_marginTop="10dp"
21         android:backgroundTint="@color/purple_200"
22         android:text="Implicit"
23         android:textColor="@color/white"
24         android:textSize="20sp" />
25
26     <Button
27         android:onClick="exp"
28         android:id="@+id/explicit"
29         android:layout_width="match_parent"
30         android:layout_height="wrap_content"
31         android:backgroundTint="@color/purple_200"
32         android:text="Explicit"
33         android:textColor="@color/white"
34         android:textSize="20sp" />
35 </LinearLayout>
```



## Class MainActivity.java

```
MainActivity.java
1  package com.example.intent;
2
3  import androidx.appcompat.app.AppCompatActivity;
4
5  import android.content.Intent;
6  import android.os.Bundle;
7  import android.view.View;
8
9  public class MainActivity extends AppCompatActivity {
10
11     @Override
12     protected void onCreate(Bundle savedInstanceState) {
13         super.onCreate(savedInstanceState);
14         setContentView(R.layout.activity_main);
15     }
16
17     public void exp(View view) {
18         Intent intent = new Intent( packageContext: MainActivity.this, explicit.class);
19         startActivity(intent);
20     }
21
22     public void imp(View view) {
23         Intent intent = new Intent( packageContext: MainActivity.this, implicit.class);
24         startActivity(intent);
25     }
26 }
```

## Intent Implicit

```
activity_implicit.xml
1  <?xml version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout
3      xmlns:android="http://schemas.android.com/apk/res/android"
4      xmlns:app="http://schemas.android.com/apk/res-auto"
5      xmlns:tools="http://schemas.android.com/tools"
6      android:layout_width="match_parent"
7      android:layout_height="match_parent"
8      tools:context="com.example.intent.implicit">
9      <EditText
10          android:id="@+id/editText"
11          android:layout_width="wrap_content"
12          android:layout_height="wrap_content"
13          android:layout_marginEnd="8dp"
14          android:layout_marginStart="8dp"
15          android:layout_marginTop="60dp"
16          android:ems="10"
17          android:text="http://"
18          app:layout_constraintEnd_toEndOf="parent"
19          app:layout_constraintHorizontal_bias="0.575"
20          app:layout_constraintStart_toStartOf="parent"
21          app:layout_constraintTop_toTopOf="parent"
22          android:inputType="textUri" />
```

```

23 <Button
24     android:id="@+id/button"
25     android:layout_width="wrap_content"
26     android:layout_height="wrap_content"
27     android:backgroundTint="@color/purple_200"
28     android:layout_marginRight="8dp"
29     android:layout_marginLeft="156dp"
30     android:layout_marginTop="172dp"
31     android:text="visit"
32     app:layout_constraintEnd_toEndOf="parent"
33     app:layout_constraintHorizontal_bias="0.0"
34     app:layout_constraintStart_toStartOf="parent"
35     app:layout_constraintTop_toBottomOf="@+id/editText"
36     android:layout_marginEnd="8dp"
37     android:layout_marginStart="156dp" />
38 </androidx.constraintlayout.widget.ConstraintLayout>

```

Class implicit.java

```

implicit.java
1 package com.example.intent;
2
3 import androidx.appcompat.app.AppCompatActivity;
4 import android.content.Intent;
5 import android.net.Uri;
6 import android.os.Bundle;
7 import android.view.View;
8 import android.widget.Button;
9 import android.widget.EditText;
10
11 public class implicit extends AppCompatActivity {
12     Button button;
13     EditText editText;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_implicit);
19         button = findViewById(R.id.button);
20         editText = findViewById(R.id.editText);
21         button.setOnClickListener(new View.OnClickListener() {
22             @Override
23             public void onClick(View view) {
24                 String url=editText.getText().toString();
25                 Intent intent=new Intent(Intent.ACTION_VIEW, Uri.parse(url));
26                 startActivity(intent);
27             }
28         });
29     }
30 }

```

## Intent Explicit

```
activity_explicit.xml x
1  <?xml version="1.0" encoding="utf-8"?>
2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      android:paddingBottom="8dp"
8      android:paddingLeft="8dp"
9      android:paddingRight="8dp"
10     android:paddingTop="8dp"
11     tools:context="com.example.intent.explicit">
12     <TextView
13         android:id="@id/textView"
14         android:layout_width="wrap_content"
15         android:layout_height="wrap_content"
16         android:text="who are you" />
17     <TextView
18         android:text="I am"
19         android:layout_width="wrap_content"
20         android:layout_height="wrap_content"
21         android:layout_marginTop="29dp"
22         android:id="@+id/textView2"
23         android:layout_below="@+id/textView"
24         android:layout_alignParentStart="true" />
```

```
25     <EditText
26         android:layout_width="wrap_content"
27         android:layout_height="wrap_content"
28         android:inputType="textPersonName"
29         android:ems="10"
30         android:id="@+id/edt_nama"
31         android:layout_alignBaseline="@+id/textView2"
32         android:layout_alignBottom="@+id/textView2"
33         android:layout_alignParentEnd="true"
34         android:layout_toEndOf="@+id/textView2" />
35     <Button
36         android:text="SEND"
37         android:layout_width="wrap_content"
38         android:layout_height="wrap_content"
39         android:layout_below="@+id/edt_nama"
40         android:layout_marginTop="26dp"
41         android:backgroundTint="@color/purple_200"
42         android:id="@+id/btn_send"
43         android:layout_alignParentEnd="true"
44         android:layout_alignParentStart="true" />
45 </RelativeLayout>
```

## Class explicit.java

```
explicit.java x
1 package com.example.intent;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5 import android.content.Intent;
6 import android.os.Bundle;
7 import android.view.View;
8 import android.widget.Button;
9 import android.widget.EditText;
10 import android.widget.Toast;
11
12 public class explicit extends AppCompatActivity {
13     EditText name;
14     Button btnSend;
15     private String KEY_NAME = "NAME";
16
17     @Override
18     protected void onCreate(Bundle savedInstanceState) {
19         super.onCreate(savedInstanceState);
20         setContentView(R.layout.activity_explicit);
21         name = (EditText) findViewById(R.id.edt_name);
22         btnSend = (Button) findViewById(R.id.btn_send);
23         btnSend.setOnClickListener(new View.OnClickListener() {
24             @Override
25             public void onClick(View v) {
26                 try {
27                     String nama = name.getText().toString();
28                     if (nama != ""){
29                         Intent i = new Intent( packageContext: explicit.this, SecondEkspilisit.class);
30                         i.putExtra(KEY_NAME, nama);
31
32                         startActivity(i);
33                     } else {
34                         Toast.makeText(getApplicationContext(), text: "YOU NEED TO FILL YOUR NAME", Toast.LENGTH_SHORT);
35                     }
36                 } catch (Exception e){
37                     e.printStackTrace();
38                     Toast.makeText(getApplicationContext(), text: "ERROR, TRY AGAIN !", Toast.LENGTH_SHORT);
39                 }
40             }
41         });
42     }
43 }
```

## Second explicit

```
activity_second_ekspilisit.xml X
1  <?xml version="1.0" encoding="utf-8"?>
2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      android:paddingBottom="8dp"
8      android:paddingLeft="8dp"
9      android:paddingRight="8dp"
10     android:paddingTop="8dp"
11     tools:context="com.example.intent.SecondEkspilisit">
12
13     <TextView
14         android:text="TextView"
15         android:layout_width="wrap_content"
16         android:layout_height="wrap_content"
17         android:layout_alignParentTop="true"
18         android:layout_alignParentStart="true"
19         android:textSize="20sp"
20         android:layout_marginStart="12dp"
21         android:textStyle="bold"
22         android:id="@+id/txtHello" />
23
24     <TextView
25         android:text="second activity"
26         android:layout_width="wrap_content"
27         android:layout_height="wrap_content"
28         android:layout_below="@+id/txtHello"
29         android:layout_alignStart="@+id/txtHello"
30         android:id="@+id/textView3" />
31 </RelativeLayout>
```

## Class SecondEkspilisit.java

```
SecondEkspilisit.java x
1  package com.example.intent;
2
3  import androidx.appcompat.app.AppCompatActivity;
4
5  import android.os.Bundle;
6  import android.widget.TextView;
7
8  public class SecondEkspilisit extends AppCompatActivity {
9      TextView txtHello;
10     private String nama;
11     private String KEY_NAME = "NAMA";
12     @Override
13     protected void onCreate(Bundle savedInstanceState) {
14         super.onCreate(savedInstanceState);
15         setContentView(R.layout.activity_second_ekspilisit);
16         txtHello = (TextView) findViewById(R.id.txtHello);
17         Bundle extras = getIntent().getExtras();
18         nama = extras.getString(KEY_NAME);
19         txtHello.setText("Hello, " + nama + " !");
20     }
21 }
```

Hasil:

