

LAPORAN PRAKTIKUM MOBILE PROGRAMMING
PEMBUATAN FORM LOGIN MENGGUNAKAN ANDROID
STUDIO



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PEMBAHASAN

A. Source code

- Tampilan Login (activity_main.xml)



```
1 <?xml version="1.0" encoding="utf-8"?>
2 <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:tools="http://schemas.android.com/tools"
4     android:id="@+id/activity_main"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     android:background="@drawable/gambar4"
8     tools:context="com.example.myapplication.MainActivity">
9
10    <ImageView
11        android:layout_width="150dp"
12        android:layout_height="130dp"
13        android:src="@drawable/admin"
14        android:id="@+id/imageView"
15        android:layout_marginTop="29dp"
16        android:layout_alignParentTop="true"
17        android:layout_alignEnd="@+id/textView"
18        android:layout_alignRight="@+id/textView" />
19
20    <EditText
21        android:id="@+id/username"
22        android:layout_width="320dp"
23        android:layout_height="wrap_content"
24        android:layout_below="@+id/textView"
25        android:layout_alignParentStart="true"
26        android:layout_alignParentLeft="true"
27        android:layout_marginStart="19dp"
28        android:layout_marginLeft="19dp"
29        android:layout_marginTop="29dp"
30        android:background="#E0E0E0"
31        android:ems="10"
32        android:gravity="center_horizontal"
33        android:hint="Username"
34        android:inputType="textPersonName"
35        android:padding="10dp"
36        android:textColorHint="#757575" />
37
```

```

38 <EditText
39     android:id="@+id/password"
40     android:layout_width="320dp"
41     android:layout_height="wrap_content"
42     android:layout_below="@+id/username"
43     android:layout_alignStart="@+id/username"
44     android:layout_alignLeft="@+id/username"
45     android:layout_alignParentStart="true"
46     android:layout_alignParentLeft="true"
47     android:layout_marginStart="19dp"
48     android:layout_marginLeft="19dp"
49     android:layout_marginTop="26dp"
50     android:background="#E0E0E0"
51     android:ems="10"
52     android:gravity="center_horizontal"
53     android:hint="Password"
54     android:inputType="textPersonName"
55     android:padding="10dp"
56     android:textColorHint="#757575" />

57
58 <Button
59     android:id="@+id/button"
60     android:layout_width="175dp"
61     android:layout_height="wrap_content"
62     android:layout_below="@+id/password"
63     android:layout_alignStart="@+id/password"
64     android:layout_alignLeft="@+id/password"
65     android:layout_marginStart="77dp"
66     android:layout_marginLeft="77dp"
67     android:layout_marginTop="19dp"
68     android:background="#FF5252"
69     android:text="Log In"
70     android:textColor="#FFF" />

71
72 <TextView
73     android:layout_width="match_parent"
74     android:layout_height="wrap_content"
75     android:layout_below="@+id/button"
76     android:layout_alignParentStart="true"
77     android:layout_alignParentLeft="true"
78     android:layout_marginStart="-11dp"
79     android:layout_marginLeft="-11dp"
80     android:layout_marginTop="29dp"
81     android:gravity="center_horizontal"
82     android:text="Register account"
83     android:textAlignment="center"
84     android:textColor="#131313"
85     android:textSize="15dp" />
86

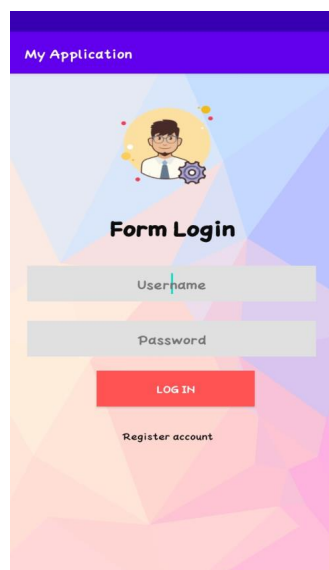
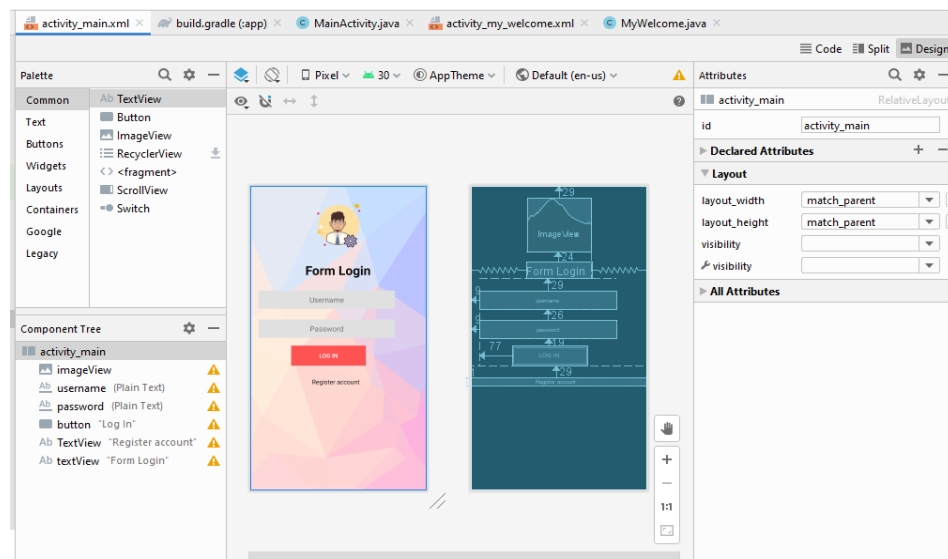
```

```

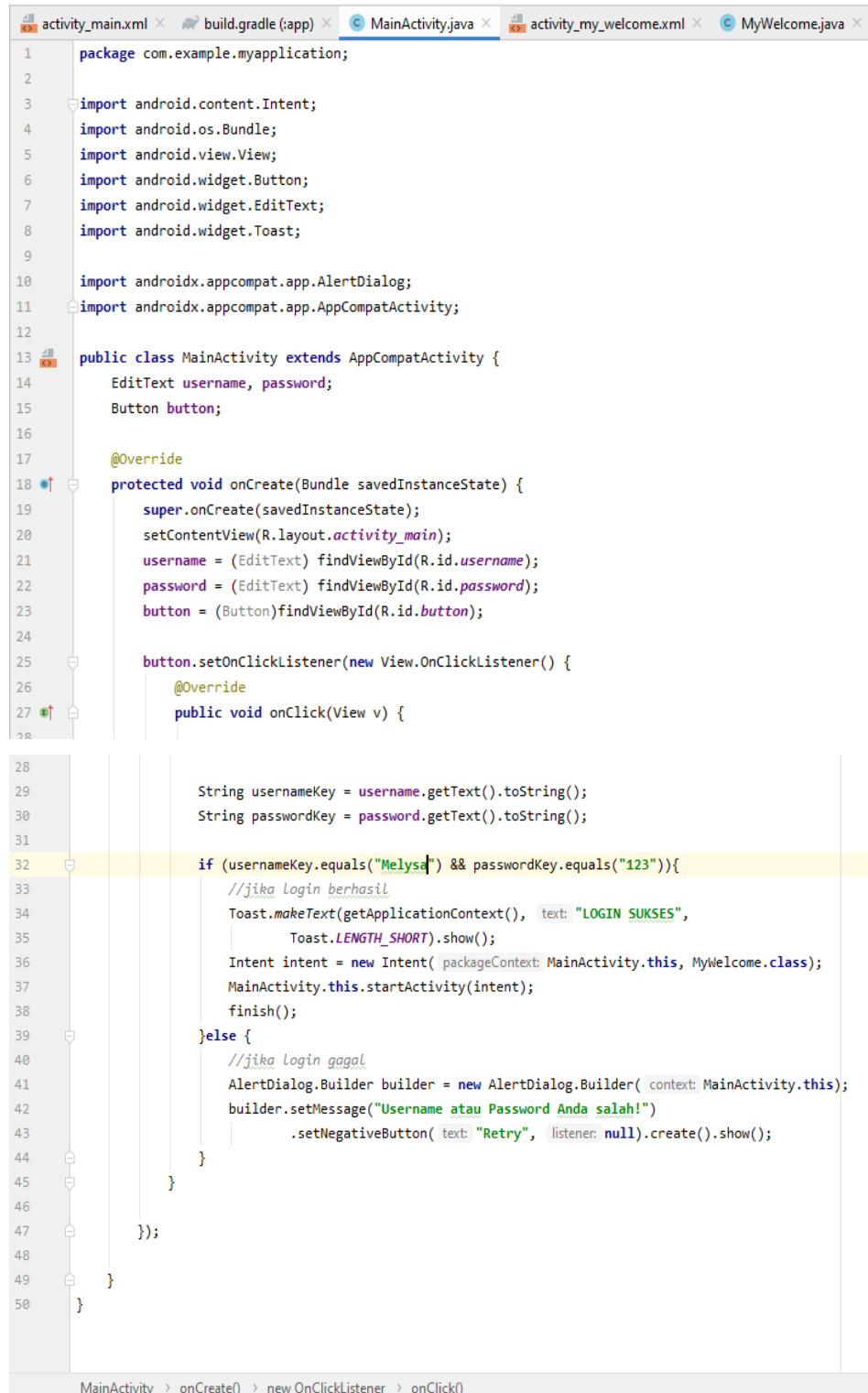
86
87 <TextView
88     android:id="@+id/textView"
89     android:layout_width="wrap_content"
90     android:layout_height="wrap_content"
91     android:text="Form Login"
92     android:textSize="30sp"
93     android:textStyle="bold"
94     android:textColor="#0C0C0C"
95     android:layout_marginTop="24dp"
96     android:layout_below="@+id/imageView"
97     android:layout_centerHorizontal="true" />
98
99
100 </RelativeLayout>

```

- Hasil Tampilan



- MainActivity.java



```

1  package com.example.myapplication;
2
3  import android.content.Intent;
4  import android.os.Bundle;
5  import android.view.View;
6  import android.widget.Button;
7  import android.widget.EditText;
8  import android.widget.Toast;
9
10 import androidx.appcompat.app.AlertDialog;
11 import androidx.appcompat.app.AppCompatActivity;
12
13 public class MainActivity extends AppCompatActivity {
14     EditText username, password;
15     Button button;
16
17     @Override
18     protected void onCreate(Bundle savedInstanceState) {
19         super.onCreate(savedInstanceState);
20         setContentView(R.layout.activity_main);
21         username = (EditText) findViewById(R.id.username);
22         password = (EditText) findViewById(R.id.password);
23         button = (Button) findViewById(R.id.button);
24
25         button.setOnClickListener(new View.OnClickListener() {
26             @Override
27             public void onClick(View v) {
28
29                 String usernameKey = username.getText().toString();
30                 String passwordKey = password.getText().toString();
31
32                 if (usernameKey.equals("Melysa") && passwordKey.equals("123")){
33                     //jika login berhasil
34                     Toast.makeText(getApplicationContext(), text: "LOGIN SUKSES",
35                         Toast.LENGTH_SHORT).show();
36                     Intent intent = new Intent( packageContext: MainActivity.this, MyWelcome.class);
37                     MainActivity.this.startActivity(intent);
38                     finish();
39                 }else {
40                     //jika login gagal
41                     AlertDialog.Builder builder = new AlertDialog.Builder( context: MainActivity.this);
42                     builder.setMessage("Username atau Password Anda salah!")
43                         .setNegativeButton( text: "Retry", listener: null).create().show();
44                 }
45             }
46         });
47     }
48 }
49
50

```

MainActivity > onCreate() > new OnClickListener > onClick()

- Activity_my_welcome.xml

The image displays two screenshots of an Android Studio IDE, showing XML layout files for an Android application.

Top Screenshot: activity_my_welcome.xml

```

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:background="@drawable/gambar4"
8      tools:context=".MyWelcome">
9
10     <TextView
11         android:id="@+id/textView2"
12         android:layout_width="match_parent"
13         android:layout_height="57dp"
14         android:gravity="center_horizontal"
15         android:text="Welcome "
16         android:textAlignment="center"
17         android:textColor="#0C0C0C"
18         android:textSize="30sp"
19         android:textStyle="bold"
20         android:layout_marginTop="24dp"
21         tools:layout_editor_absoluteX="72dp"
22         tools:layout_editor_absoluteY="75dp" />
23

```

Bottom Screenshot: MyWelcome.xml

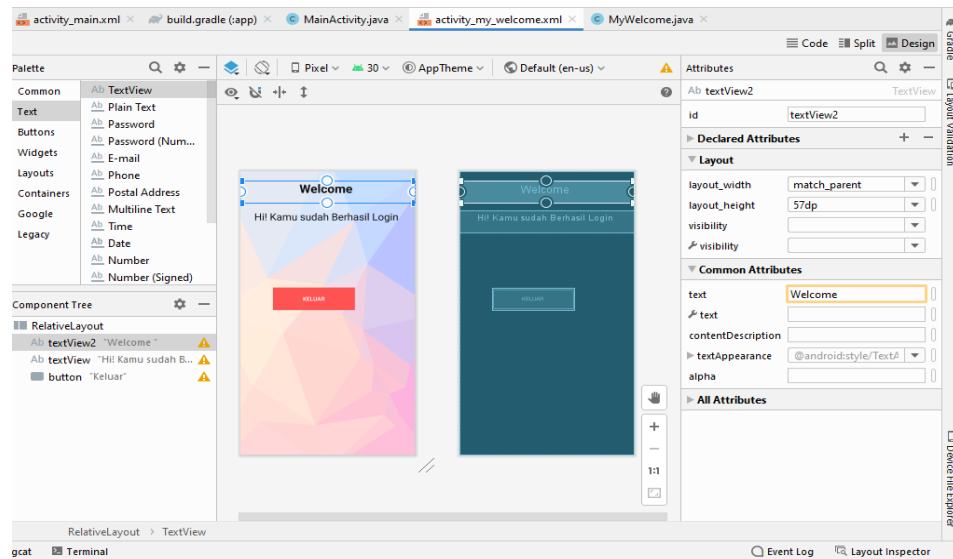
```

24     <TextView
25         android:id="@+id/textView"
26         android:layout_width="match_parent"
27         android:layout_height="57dp"
28         android:gravity="center_horizontal"
29         android:text="Hi! Kamu sudah Berhasil Login "
30         android:textAlignment="center"
31         android:textColor="#0C0C0C"
32         android:textSize="25sp"
33         android:layout_marginTop="100dp"
34         tools:layout_editor_absoluteX="72dp"
35         tools:layout_editor_absoluteY="75dp" />
36
37     <Button
38         android:id="@+id/button"
39         android:layout_width="193dp"
40         android:layout_height="58dp"
41         android:layout_marginStart="77dp"
42         android:layout_marginLeft="77dp"
43         android:layout_marginTop="300dp"
44         android:background="#FF5252"
45         android:text="Keluar"
46         android:textColor="#FFF" />
47
48 </RelativeLayout>

```

The bottom screenshot also shows the **Component Tree** on the right side of the IDE, indicating the current selection is **RelativeLayout > TextView**.

- Hasil Tampilan

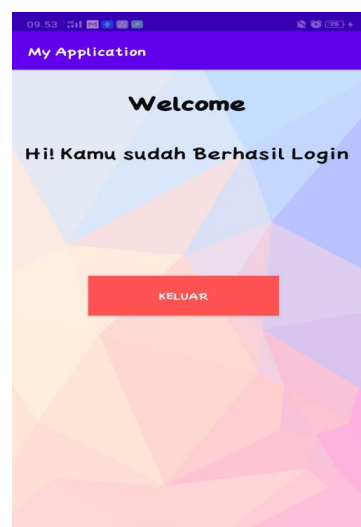


- MyWelcome.java

```

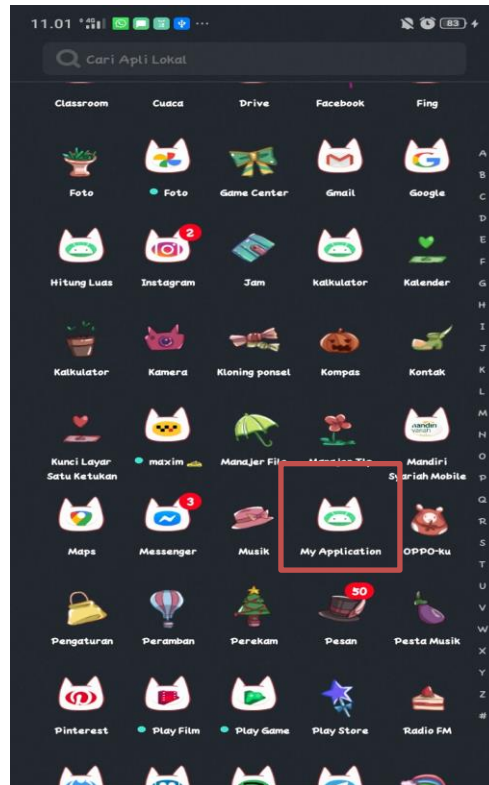
1 package com.example.myapplication;
2
3 import ...
4
5
6
7
8
9 public class MyWelcome extends AppCompatActivity {
10     Button btnExit;
11     @Override
12     protected void onCreate(Bundle savedInstanceState) {
13         super.onCreate(savedInstanceState);
14         setContentView(R.layout.activity_my_welcome);
15         btnExit = (Button) findViewById(R.id.button);
16
17         btnExit.setOnClickListener(new View.OnClickListener() {
18             @Override
19             public void onClick(View v) {
20                 //perintah untuk mengakhiri aplikasi
21                 finish();
22             }
23         });
24     }
25 }
26

```



B. Proses Login

- User masuk ke aplikasi Login

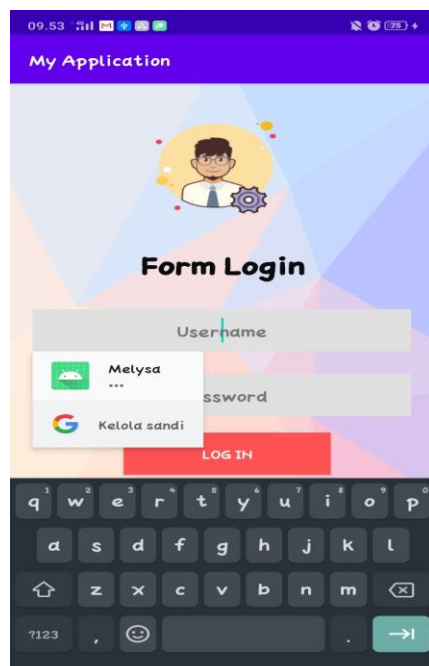


Setelah masuk ke aplikasi maka tampilan form login nya akan seperti ini:

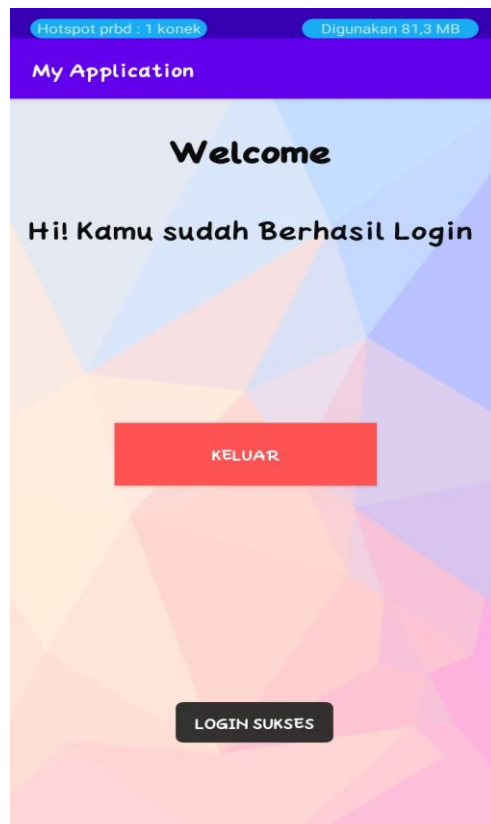
Lalu Masukkan Username dan Password yang telah kita buat di MainActivity. Java



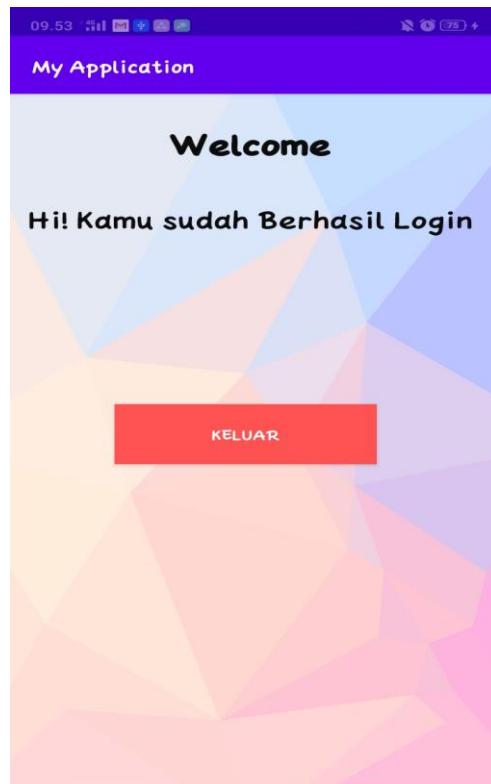
Jika sudah pernah Login maka username dan password dapat disimpan dan hanya tinggal melakukan klik saja pada username dan password yang muncul.



- Tampilan Welcome Setelah berhasil Login maka akan muncul pesan Login Sukses



Dan inilah tampilan MyWelcome.java



Pesan Teks Login Sukses tampil apabila user benar memasukkan username dan password. Apabila salah menginput username dan password maka akan tampil pesan Username dan Password Anda salah!

```
Toast.makeText(getApplicationContext(), text: "LOGIN SUKSES",  
    Toast.LENGTH_SHORT).show();  
Intent intent = new Intent( packageContext: MainActivity.this, MyWelcome.class);  
MainActivity.this.startActivity(intent);  
finish();  
}else {  
    //jika Login gagal  
    AlertDialog.Builder builder = new AlertDialog.Builder( context: MainActivity.this);  
    builder.setMessage("Username atau Password Anda salah!")  
    .setNegativeButton( text: "Retry", listener: null).create().show();  
}
```

