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Buatlah aplikasi dengan beberapa syarat sebagai berikut :

1. Memiliki login, dimana menggunakan shared prefereces untuk menyimpan data login (seperti session pada php)

2. Memiliki ~~minimal 2 fragment pada botom navigation~~

3. Memiliki ~~minimal 1 recycler view~~

Halaman Login 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">

    <EditText
        android:id="@+id/userName"
        android:layout_width="370dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="16dp"
        android:layout_marginTop="32dp"
        android:layout_marginRight="16dp"
        android:ems="10"
        android:hint="Username.."
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/passWord"
        android:layout_width="370dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="16dp"
        android:layout_marginTop="16dp"
        android:layout_marginRight="16dp"
        android:ems="10"
        android:hint="Password.."
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/userName" />

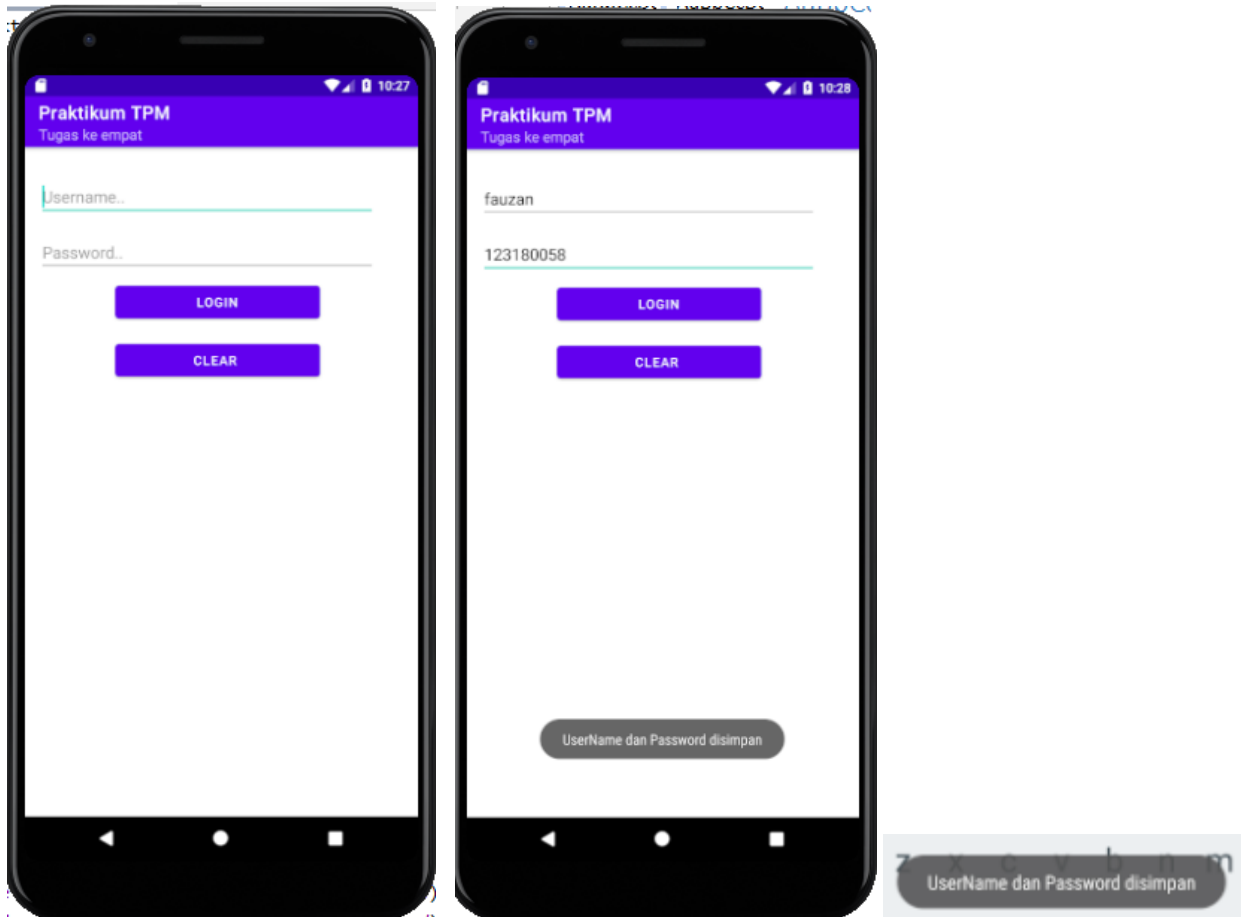
    <Button
        android:id="@+id/loginAkun"
        android:layout_width="225dp"
        android:layout_height="wrap_content"
```

```
android:layout_marginLeft="100dp"
android:layout_marginTop="8dp"
android:layout_marginRight="16dp"
android:onClick="loginAkun"
android:text="LOGIN"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toBottomOf="@+id/passWord" />
```

<Button

```
android:id="@+id/clear"
android:layout_width="225dp"
android:layout_height="wrap_content"
android:layout_marginLeft="100dp"
android:layout_marginTop="16dp"
android:layout_marginRight="16dp"
android:layout_marginBottom="8dp"
android:onClick="clearKolom"
android:text="CLEAR "
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toBottomOf="@+id/loginAkun"
app:layout_constraintVertical_bias="0.043" />
```

</LinearLayout>



Halaman login java

```
package com.praktikum.tugasempat;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    EditText userName, passWord;
    SharedPreferences preferences;
    public static final String KEY_PREF = "Key Preferences";
    public static final String KEY_USERNAME = "Key Username";
    public static final String KEY_PASSWORD = "Key Password";
    //deklarasi edittext ,sharedpreferences ,dan Key

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}
```

```

setContentView(R.layout.activity_main);

getSupportActionBar().setTitle("Praktikum TPM");
getSupportActionBar().setSubtitle("Tugas ke empat");

userName = (EditText) findViewById(R.id.userName);
passWord = (EditText) findViewById(R.id.passWord);
//instansiasi editext

preferences = getSharedPreferences(KEYPREF, Context.MODE_PRIVATE);

//instansiasi preferences

if (preferences.contains(KEYUSERNAME) && (preferences.contains(KEYPASSWORD)))
{
    userName.setText(preferences.getString(KEYUSERNAME, ""));
    passWord.setText(preferences.getString(KEYPASSWORD, ""));
}
//kondisi jika aplikasi di buka kembali ,maka akan menyimpan data dari
sharedpreferences
//berdasarkan Key
}

public void loginAkun(View view) {
    String user = userName.getText().toString();
    String pass = passWord.getText().toString();
    SharedPreferences.Editor editor = preferences.edit();
    editor.putString(KEYUSERNAME, user);
    editor.putString(KEYPASSWORD, pass);
    editor.apply();
    Toast.makeText(this, "UserName dan Password disimpan",
Toast.LENGTH_SHORT).show();
    //menyimpan data user dan pass
    //dengan method apply

}

public void clearKolom(View view) {

    userName.setText("");
    passWord.setText("");

    //hanya bertugas mengkosongkan kolom, bukan menghapus data dari
SharedPreferences
}

}

```