**Age Calculator**

**PROJECT ABSTRACT:**

In this project we are going to make an application to calculate Age or time period between two dates.

**APPLICATION INFORMATION:**

* Version: “1.0”
* Updated on: 27.11.2021
* Released on: 27.11.2021
* Download size: 4 mb
* Application requirements:

1. Input two dates

2. Perform Calculation

3. Display the result

**APPLICATION FEATURES:**

* Calculates the exact age of a person.
* Calculates the time period between two dates.

**DESCRIPTION:**

* With the help of This project (Age Calculator) we can check the exact age of a person.
* You can also calculate the time period between two dates.

**HOW TO INSTALL SRS CURRENCY CONVERTER APK FOR AN ANDROID** :

* Download Display checking APK file from SameAPK.com, then follow these steps:

**UPDATE PHONE SETTINGS**:

* Go to your phone Settings page
* Tap Security or Applications (varies with device)
* Check the Unknown Sources box
* Confirm with OK

**GO TO DOWNLOADS**:

* Open Downloads on your device by going to My Files or Files
* Tap Install when prompted, the APK file you downloaded will be installed on your device.

**USING EMULATOR**:

* Download And Install one Emulator Software’s

(Ex: Bluestacks, GenyMoti on, NoxPlayer)

**SOURCE CODE:**

activity\_main.xml:

<?xml version="1.0" encoding="utf-8"?>

<!-- Parent layout as linear layout-->

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

android:orientation="vertical"

android:padding="10dp"

tools:context=".MainActivity">

<!-- linear layout to show datepickers-->

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<!-- to select the first date-->

<Button

android:id="@+id/bt\_birth"

android:layout\_width="150dp"

android:layout\_height="50dp"

android:background="@android:color/transparent"

android:drawableRight="@drawable/ic\_baseline"

android:text="01/01/2021"

android:textColor="@color/black"

android:textSize="13sp" />

<!-- displaying message as "to"-->

<TextView

android:layout\_width="100dp"

android:layout\_height="50dp"

android:gravity="center\_horizontal"

android:text="To"

android:textColor="@color/black"

android:textSize="20sp"

android:textStyle="bold" />

<!-- to display date number 2-->

<Button

android:id="@+id/bt\_today"

android:layout\_width="145dp"

android:layout\_height="50dp"

android:background="@android:color/transparent"

android:drawableRight="@drawable/ic\_baseline"

android:textColor="@color/black"

android:textSize="13sp" />

</LinearLayout>

<!-- to perform the calculation-->

<Button

android:id="@+id/btn\_calculate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:text="calculate" />

<!-- to display the message "Result"-->

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="50dp"

android:text="Result"

android:textColor="@android:color/holo\_blue\_bright"

android:textSize="30sp"

android:textStyle="bold" />

<!-- To show the final output(age)-->

<TextView

android:id="@+id/tv\_result"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:text="0 Years | 0 Months | 0 Days"

android:textSize="25sp"

android:textStyle="bold" />

</LinearLayout>

**MainActivity.java:**

import android.app.DatePickerDialog;

import android.graphics.Color;

import android.graphics.drawable.ColorDrawable;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.DatePicker;

import android.widget.TextView;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import org.joda.time.Period;

import org.joda.time.PeriodType;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

public class MainActivity extends AppCompatActivity {

// initializing variables

Button btn\_birth, btn\_today, btn\_calculate;

TextView tvResult;

DatePickerDialog.OnDateSetListener dateSetListener1, dateSetListener2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

// assign variables

btn\_birth = findViewById(R.id.bt\_birth);

btn\_today = findViewById(R.id.bt\_today);

btn\_calculate = findViewById(R.id.btn\_calculate);

tvResult = findViewById(R.id.tv\_result);

// calendar format is imported to pick date

Calendar calendar = Calendar.getInstance();

// for year

int year = calendar.get(Calendar.YEAR);

// for month

int month = calendar.get(Calendar.MONTH);

// for date

int day = calendar.get(Calendar.DAY\_OF\_MONTH);

SimpleDateFormat simpleDateFormat = new SimpleDateFormat("dd/MM/yyyy");

// to set the current date as by default

String date = simpleDateFormat.format(Calendar.getInstance().getTime());

btn\_today.setText(date);

// action to be performed when button 1 is clicked

btn\_birth.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

// date picker dialog is used

// and its style and color are also passed

DatePickerDialog datePickerDialog = new DatePickerDialog(MainActivity.this, android.R.style.Theme\_Holo\_Light\_Dialog\_MinWidth, dateSetListener1, year, month, day

);

// to set background for datepicker

datePickerDialog.getWindow().setBackgroundDrawable(new ColorDrawable(Color.TRANSPARENT));

datePickerDialog.show();

}

});

// it is used to set the date which user selects

dateSetListener1 = new DatePickerDialog.OnDateSetListener() {

@Override

public void onDateSet(DatePicker view, int year, int month, int day) {

// here month+1 is used so that

// actual month number can be displayed

// otherwise it starts from 0 and it shows

// 1 number less for every month

// example- for january month=0

month = month + 1;

String date = day + "/" + month + "/" + year;

btn\_birth.setText(date);

}

};

// action to be performed when button 2 is clicked

btn\_today.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

// date picker dialog is used

// and its style and color are also passed

DatePickerDialog datePickerDialog = new DatePickerDialog(MainActivity.this, android.R.style.Theme\_Holo\_Light\_Dialog\_MinWidth, dateSetListener2, year, month, day

);

// to set background for datepicker

datePickerDialog.getWindow().setBackgroundDrawable(new ColorDrawable(Color.TRANSPARENT));

datePickerDialog.show();

}

});

// it is used to set the date which user selects

dateSetListener2 = new DatePickerDialog.OnDateSetListener() {

@Override

public void onDateSet(DatePicker view, int year, int month, int day) {

// here month+1 is used so that

// actual month number can be displayed

// otherwise it starts from 0 and it shows

// 1 number less for every month

// example- for january month=0

month = month + 1;

String date = day + "/" + month + "/" + year;

btn\_today.setText(date);

}

};

// action to be performed when calculate button is clicked

btn\_calculate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

// converting the inputted date to string

String sDate = btn\_birth.getText().toString();

String eDate = btn\_today.getText().toString();

SimpleDateFormat simpleDateFormat1 = new SimpleDateFormat("dd/MM/yyyy");

try {

// converting it to date format

Date date1 = simpleDateFormat1.parse(sDate);

Date date2 = simpleDateFormat1.parse(eDate);

long startdate = date1.getTime();

long endDate = date2.getTime();

// condition

if (startdate <= endDate) {

org.joda.time.Period period = new Period(startdate, endDate, PeriodType.yearMonthDay());

int years = period.getYears();

int months = period.getMonths();

int days = period.getDays();

// show the final output

tvResult.setText(years + " Years |" + months + "Months |" + days + "Days");

} else {

// show message

Toast.makeText(MainActivity.this, "BirthDate should not be larger then today's date!", Toast.LENGTH\_SHORT).show();

}

} catch (ParseException e) {

e.printStackTrace();

}

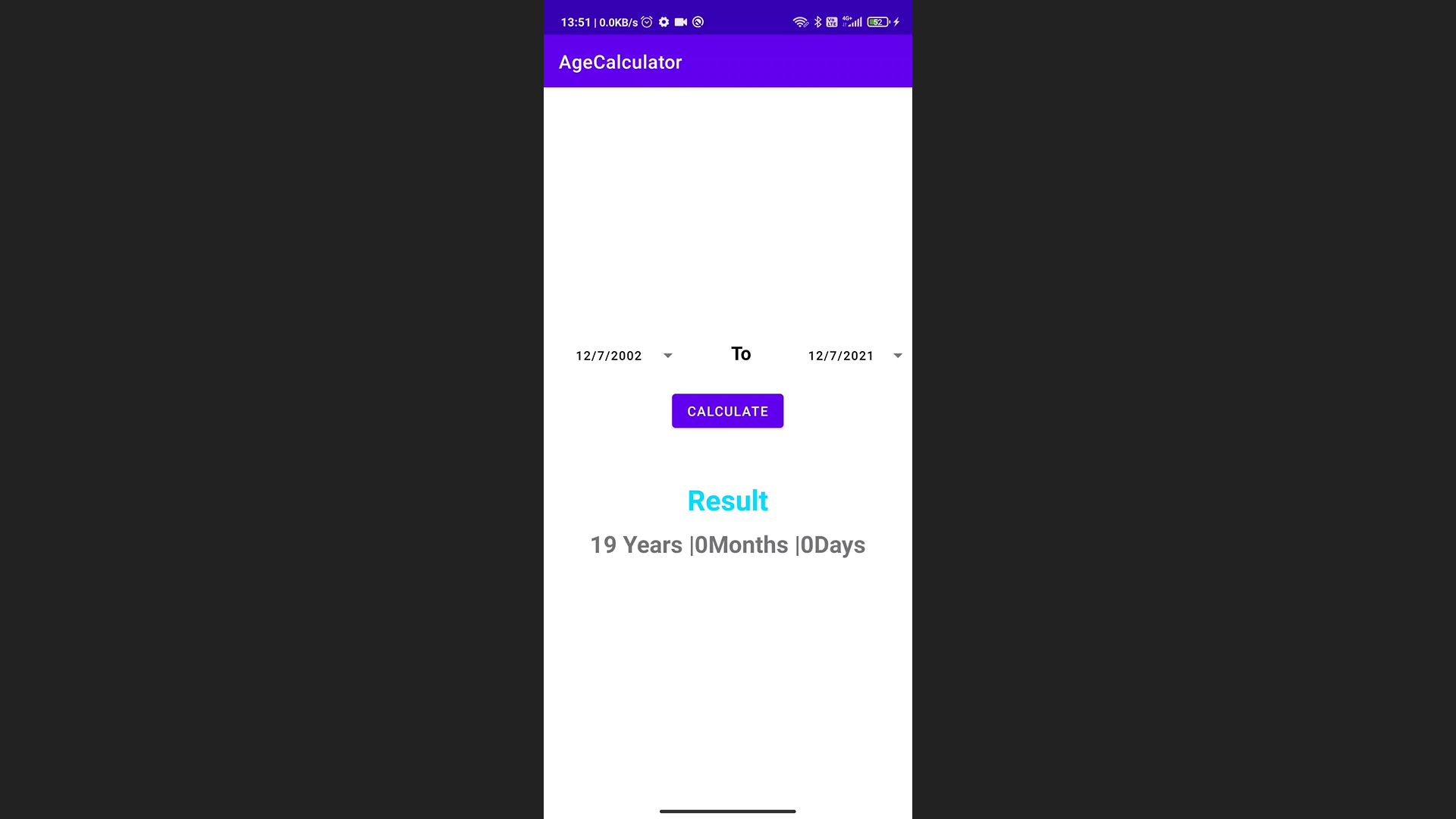
}

});

}

}

**OUTPUT:**

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