Experiment: DegtermineAge (29/07/2017)

activity\_main.xml

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

<**tools: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:orientation="vertical"**

**tools:context="com.example.girish.age.MainActivity"**>

<**Button**

**android:id="@+id/datepickerbtn"**

**android:layout\_width="wrap\_content"**

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

**android:text="Calculate Age"**></**Button**>

<**TextView**

**android:id="@+id/dateDisplay"**

**android:layout\_width="wrap\_content"**

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

**android:text=""** />

</**tools:LinearLayout**>

MainActivity.java

**package** com.example.girish.age;

**import** java.util.Calendar;

**import** android.app.Activity;

**import** android.app.DatePickerDialog;

**import** android.view.View.OnClickListener;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.Button;

**import** android.widget.DatePicker;

**import** android.widget.TextView;

**public class** MainActivity **extends** Activity **implements** OnClickListener

{

**int mYear**, **bmYear**;

**int mMonth**,**bmMonth**;

**int mDay**, **bmDay**;

**int y**,**m**,**d**;

*/\*\* Called when the activity is first created. \*/*

@Override

**public void** onCreate(Bundle savedInstanceState)

{

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

Button datepickerbtn = (Button) findViewById(R.id.***datepickerbtn***);

datepickerbtn.setOnClickListener(**this**);

}

**public void** onClick(View v)

{

**final** TextView mDateDisplay = (TextView) findViewById(R.id.***dateDisplay***);

**final** DatePickerDialog dateDialog;

**final** Calendar c = Calendar.*getInstance*();

**mYear** = c.get(Calendar.***YEAR***);

**mMonth** = c.get(Calendar.***MONTH***);

**mDay** = c.get(Calendar.***DAY\_OF\_MONTH***);

DatePickerDialog.OnDateSetListener mDateSetListener = **new**

DatePickerDialog.OnDateSetListener() {

**public void** onDateSet(DatePicker view, **int** year, **int** monthOfYear, **int** dayOfMonth) {

**bmYear** = year;

**bmMonth** = monthOfYear;

**bmDay** = dayOfMonth;

**if** (**mYear** >= **bmYear**) {

**if** (**mMonth** < **bmMonth**)

{

**mYear**--;

**mMonth**+=12;

}

**if** (**mDay** < **bmDay** && **mMonth** != **bmMonth**)

{

**mMonth**--;

**mDay**+=30;

}

**y** = **mYear** - **bmYear**;

**m** = **mMonth** - **bmMonth**;

**d** = **mDay** - **bmDay**;

}

mDateDisplay.setText(**new** StringBuilder().append(**"You are "** + **y** + **" year(s) "** + **m** + **" month(s) "**+ **d** +**" day(s) old"** ));

}

} ;

dateDialog = **new** DatePickerDialog(MainActivity.**this**,mDateSetListener, **mYear**, **mMonth**, **mDay**);

dateDialog.show();

}

}



