DATE AND TIME PICKER

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AN APP THAT ALLOWS TO CHOOSE THE DATE AND TIME USING THE DATE AND TIME PICKER:

MainActivity.java

```java
package com.example.datetime;

import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.icu.text.SimpleDateFormat;
import android.os.SystemClock;
import android.provider.Settings;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.format.DateFormat;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;
import android.widget.TimePicker;

import java.util.Calendar;
import java.util.Date;
import java.util.Locale;

public class MainActivity extends AppCompatActivity {

    private static final String TAG = "MainActivity";

    Button dateButton, timeButton;
    TextView dateTextView, timeTextView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    dateButton = findViewById(R.id.dateButton);
    timeButton = findViewById(R.id.timeButton);
    dateTextView = findViewById(R.id.dateTextView);
    timeTextView = findViewById(R.id.timeTextView);
```

```java
dateButton.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
handleDateButton();
}
});
timeButton.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
handleTimeButton();
}
});

}

private void handleDateButton() {
Calendar calendar = Calendar.getInstance();
int YEAR = calendar.get(Calendar.YEAR);
int MONTH = calendar.get(Calendar.MONTH);
int DATE = calendar.get(Calendar.DATE);

DatePickerDialog datePickerDialog = new DatePickerDialog(this, new
DatePickerDialog.OnDateSetListener() {
@Override
public void onDateSet(DatePicker datePicker, int year, int month, int date) {

Calendar calendar1 = Calendar.getInstance();
calendar1.set(Calendar.YEAR, year);
calendar1.set(Calendar.MONTH, month);
calendar1.set(Calendar.DATE, date);
String dateText = DateFormat.format("EEEE, MMM d, yyyy", calendar1).toString();

dateTextView.setText(dateText);
}
}, YEAR, MONTH, DATE);

datePickerDialog.show();




}

private void handleTimeButton() {
Calendar calendar = Calendar.getInstance();
int HOUR = calendar.get(Calendar.HOUR);
int MINUTE = calendar.get(Calendar.MINUTE);
boolean is24HourFormat = DateFormat.is24HourFormat(this);
```

```java
        TimePickerDialog timePickerDialog = new TimePickerDialog(this, new
TimePickerDialog.OnTimeSetListener() {
        @Override
        public void onTimeSet(TimePicker timePicker, int hour, int minute) {
        Log.i(TAG, "onTimeSet: " + hour + minute);
        Calendar calendar1 = Calendar.getInstance();
        calendar1.set(Calendar.HOUR, hour);
        calendar1.set(Calendar.MINUTE, minute);
        String dateText = DateFormat.format("h:mm a", calendar1).toString();
        timeTextView.setText(dateText);
        }
        }, HOUR, MINUTE, is24HourFormat);

        timePickerDialog.show();

        }

}
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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"
        tools:context=".MainActivity">

        <TextView
        android:id="@+id/dateTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:layout_marginBottom="64dp"
        android:text="dateTextView"
        android:textAppearance="@style/TextAppearance.AppCompat.Display1"
        app:layout_constraintBottom_toTopOf="@+id/timeButton"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/dateButton" />

        <Button
        android:id="@+id/dateButton"
        style="@style/Widget.AppCompat.Button.Colored"
        android:layout_width="wrap_content"
```

```xml
        android:layout_height="wrap_content"
        android:text="get date"
        app:layout_constraintBottom_toTopOf="@+id/dateTextView"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_chainStyle="packed" />

    <Button
        android:id="@+id/timeButton"
        style="@style/Widget.AppCompat.Button.Colored"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="get time"
        app:layout_constraintBottom_toTopOf="@+id/timeTextView"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/dateTextView" />

    <TextView
        android:id="@+id/timeTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:text="timeTextView"
        android:textAppearance="@style/TextAppearance.AppCompat.Display1"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/timeButton" />

</android.support.constraint.ConstraintLayout>
```

OUTPUT: