Mobile Computing Lab

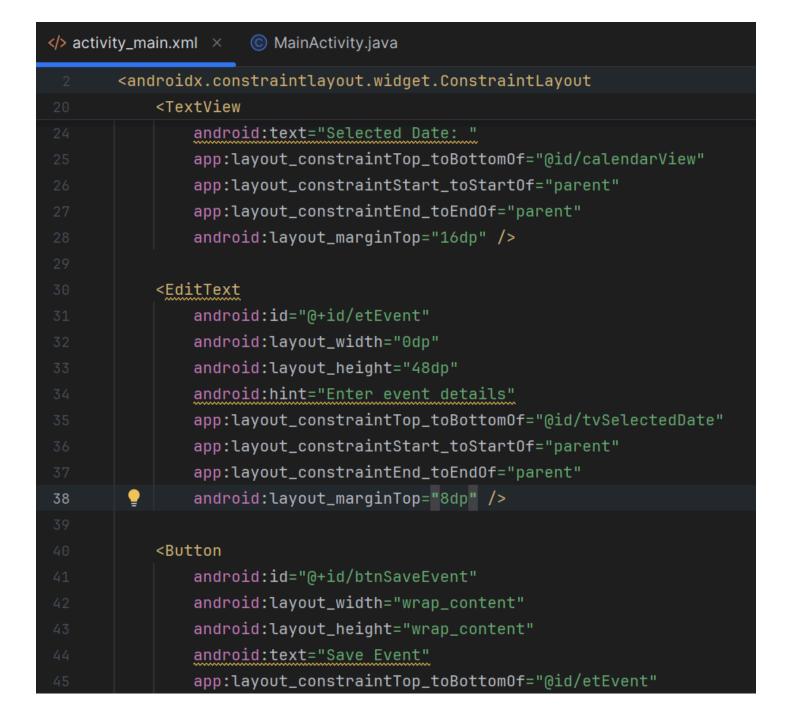
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Aim: CalendarView is a user interface component in Android that provides a simple way to display and interact with a calendar. It allows users to select dates, making it useful for applications that require date input, such as scheduling or event planning apps.

XML Code:

```
</> activity_main.xml ×
                     MainActivity.java
       <?xml version="1.0" encoding="utf-8"?>
 2 (C)
       <androidx.constraintlayout.widget.ConstraintLayout</pre>
           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">
           <CalendarView
               android:id="@+id/calendarView"
               android:layout_width="0dp"
               android:layout_height="wrap_content"
               android:layout_margin="16dp"
               android:dateTextAppearance="?android:attr/textAppearanceSmall"
               app:layout_constraintTop_toTopOf="parent"
               app:layout_constraintStart_toStartOf="parent"
               app:layout_constraintEnd_toEndOf="parent" />
           <TextView
               android:id="@+id/tvSelectedDate"
               android:layout_width="wrap_content"
               android:layout_height="wrap_content"
               android:text="Selected Date: "
```



Main Activity Code:

```
activity_main.xml
                     MainActivity.java ×
         package com.example.calendar;
 1
         import android.graphics.Color;
         import android.os.Bundle;
         import android.view.View;
         import android.widget.Button;
         import android.widget.CalendarView;
         import android.widget.EditText;
         import android.widget.TextView;
         import android.widget.Toast;
         import androidx.appcompat.app.AppCompatActivity;
         import com.example.calendar.R;
         import java.text.SimpleDateFormat;
         import java.util.Date;
         import java.util.HashMap;
         import java.util.Locale;
         public class MainActivity extends AppCompatActivity {
21 > </>>
```

```
</> activity_main.xml
                      MainActivity.java ×
         public class MainActivity extends AppCompatActivity {
              2 usages
              CalendarView calendarView;
              2 usages
              TextView tvSelectedDate;
              EditText etEvent;
              2 usages
              Button btnSaveEvent;
              HashMap<String, String> eventMap = new HashMap<>();
              String selectedDateString = "";
              @Override
32 6
              protected void onCreate(Bundle savedInstanceState) {
                  super.onCreate(savedInstanceState);
                  setContentView(R.layout.activity_main);
                  calendarView = findViewById(R.id.calendarView);
```

```
btnSaveEvent = findViewById(R.id.btnSaveEvent);

calendarView.setOnDateChangeListener(new CalendarView.OnDateChangeListener() {

2 usages

@Override

public void onSelectedDayChange(CalendarView view, int year, int month, int dayOfMonth) {

selectedDateString = dayOfMonth + "/" + (month + 1) + "/" + year;

tvSelectedDate.setText("Selected Date: " + selectedDateString);

// Show event for the selected date if available

if (eventMap.containsKey(selectedDateString)) {

etEvent.setText(eventMap.get(selectedDateString));

} else {

etEvent.setText("");

}

btnSaveEvent.setOnClickListener(new View.OnClickListener() {
```

etEvent = findViewById(R.id.etEvent);

tvSelectedDate = findViewById(R.id.tvSelectedDate);

Output:

