

### CSE- 4002 LAB-7 Assignment

Academic year: 2020-2021 Semester: WIN

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# Time picker App And Time scheduler App

1.Deagin an app to schedule three events. Add a time picker to the App, choose time and when click set, display the time in the respective event.

**CODE:** 

```
activity_main.xml
```

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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">

<TimePicker

android:layout_width="wrap_content"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_height="wrap_content"

android:layout_marginTop="8dp"

app:layout_constraintStart_toStartOf="parent"</pre>
```

app:layout\_constraintTop\_toTopOf="parent" />

```
<TextView
andro
```

```
android:id="@+id/T1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginEnd="51dp"
android:text="Event1"
app:layout_constraintBaseline_toBaselineOf="@+id/E1"
app:layout_constraintEnd_toStartOf="@+id/E1"
```

app:layout constraintStart toStartOf="parent" />

### <TextView

android:id="@+id/T2"

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="41dp"
android:layout_marginEnd="51dp"
android:text="Event2"
app:layout_constraintEnd_toStartOf="@+id/E2"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/T1" />
```

### <TextView

```
android:id="@+id/T3"
android:layout_width="wrap_content"
```



```
android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="31dp"
    android:layout marginEnd="51dp"
    android:text="Event3"
    app:layout constraintEnd toStartOf="@+id/E3"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/T2" />
<EditText
    android:id="@+id/E1"
    android:layout_width="0dp"
    android:layout height="48dp"
    android:layout marginTop="21dp"
    android:layout marginEnd="32dp"
    android:layout marginBottom="15dp"
    android:ems="10"
    android:inputType="time"
    app:layout_constraintBottom_toTopOf="@+id/E2"
    app:layout_constraintEnd_toStartOf="@+id/B1"
    app:layout_constraintStart_toEndOf="@+id/T1"
    app:layout constraintTop toBottomOf="@+id/TP"
    tools:ignore="SpeakableTextPresentCheck" />
<EditText
    android:id="@+id/E2"
    android:layout_width="0dp"
    android:layout height="48dp"
```



```
android:layout_marginTop="57dp"
    android:layout marginEnd="32dp"
    android:layout marginBottom="55dp"
    android:ems="10"
    android:inputType="time"
    app:layout constraintBottom toBottomOf="@+id/E3"
    app:layout constraintEnd toStartOf="@+id/B2"
    app:layout_constraintStart_toEndOf="@+id/T2"
    app:layout_constraintTop_toTopOf="@+id/B1"
    tools:ignore="SpeakableTextPresentCheck, SpeakableTextPresentCheck" />
<EditText
   android:id="@+id/E3"
    android:layout width="0dp"
    android:layout height="48dp"
    android:layout marginTop="7dp"
    android:layout marginEnd="32dp"
    android:layout marginBottom="6dp"
    android:ems="10"
    android:inputType="time"
    app:layout_constraintBottom_toBottomOf="@+id/B3"
    app:layout constraintEnd toStartOf="@+id/B3"
    app:layout constraintStart toEndOf="@+id/T3"
    app:layout constraintTop toBottomOf="@+id/B2" />
```

### <Button

```
android:id="@+id/B1"
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
    android:layout_marginTop="21dp"
    android:layout marginEnd="22dp"
    android:text="Set"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toEndOf="@+id/E1"
    app:layout constraintTop toBottomOf="@+id/TP" />
<Button
    android:id="@+id/B2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout marginTop="9dp"
    android:layout marginEnd="22dp"
    android:text="SET"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/E2"
    app:layout constraintTop toBottomOf="@+id/B1" />
<Button
    android:id="@+id/B3"
   android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout marginTop="7dp"
    android:layout marginEnd="22dp"
    android:text="SET"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toEndOf="@+id/E3"
```



app:layout\_constraintTop\_toBottomOf="@+id/B2" />

#### <Button

```
android:id="@+id/B4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginEnd="32dp"
android:layout_marginBottom="54dp"
android:text="SUBMIT"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="@+id/E3" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### MainActivity.java:

```
package com.example.timechanger;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.TimePicker;

import android.widget.Toast;
```



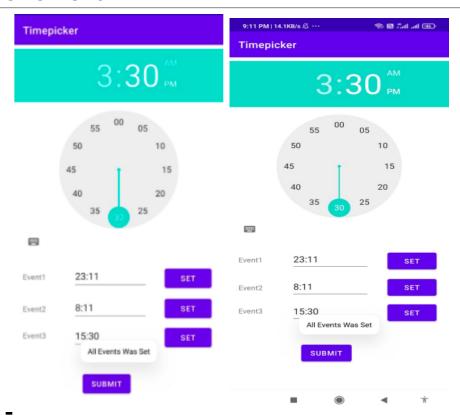
```
TextView T1,T2,T3;
TimePicker TP;
EditText E1,E2,E3;
Button B1, B2, B3, B4;
int H,M;
String S;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    T1=findViewById(R.id.T1);
    T2=findViewById(R.id.T2);
    T3=findViewById(R.id. T3);
    TP=findViewById(R.id.TP);
    E1=findViewById(R.id.E1);
    E2=findViewById(R.id.E2);
    E3=findViewById(R.id.E3);
    B1=findViewById(R.id.B1);
    B2=findViewById(R.id.B2);
    B3=findViewById(R.id.B3);
    B4=findViewById(R.id.B4);
    B1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
```



```
H=TP.getCurrentHour();
         M=TP.getCurrentMinute();
         S=String.valueOf(H)+":"+String.valueOf(M);
        E1.setText(S);
    }
});
B2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        H=TP.getCurrentHour();
        M=TP.getCurrentMinute();
        S=String.valueOf(H)+":"+String.valueOf(M);
        E2.setText(S);
    }
});
B3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        H=TP.getCurrentHour();
        M=TP.getCurrentMinute();
        S=String.valueOf(H)+":"+String.valueOf(M);
        E3.setText(S);
    }
});
B4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
```

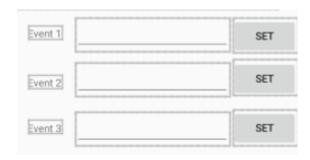


# **Output:**



2. Design an App for a Dialog based TimePicker.

When the SET button is clicked a timepicker should pop on choosing the date, it should set the date in the EditText and disappear.





### activity.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<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">
    <TextView
        android:id="@+id/T1"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginStart="17dp"
        android:layout marginEnd="56dp"
        android:text="Event1"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toStartOf="@+id/E1"
        app:layout_constraintHorizontal_bias="0.047"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.264" />
    <TextView
        android:id="@+id/T2"
        android:layout width="wrap content"
        android:layout height="wrap content"
```

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```
android:layout_marginStart="19dp"
    android:layout marginEnd="51dp"
    android:text="Event2"
    app:layout constraintBaseline toBaselineOf="@+id/E2"
    app:layout constraintEnd toStartOf="@+id/E2"
    app:layout constraintStart toStartOf="parent" />
<TextView
   android:id="@+id/T3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="19dp"
    android:layout marginTop="40dp"
    android:layout marginEnd="51dp"
    android:text="Event3"
    app:layout constraintEnd toStartOf="@+id/E3"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/T2" />
<EditText
    android:id="@+id/E1"
   android:layout_width="0dp"
    android:layout height="49dp"
    android:layout marginEnd="26dp"
    android:ems="10"
    android:inputType="time"
    app:layout_constraintBottom_toBottomOf="@+id/B1"
    app:layout_constraintEnd_toStartOf="@+id/B1"
```



```
app:layout_constraintStart_toEndOf="@+id/T1"
    tools:ignore="SpeakableTextPresentCheck" />
<EditText
   android:id="@+id/E2"
    android:layout width="0dp"
    android:layout height="49dp"
    android:layout_marginTop="66dp"
    android:layout marginEnd="29dp"
    android:layout marginBottom="66dp"
    android:ems="10"
    android:inputType="time"
    app:layout constraintBottom toBottomOf="@+id/B3"
    app:layout constraintEnd toStartOf="@+id/B2"
    app:layout constraintStart toEndOf="@+id/T2"
    app:layout constraintTop toTopOf="@+id/E1"
    tools:ignore="SpeakableTextPresentCheck" />
<EditText
    android:id="@+id/E3"
    android:layout_width="0dp"
    android:layout height="49dp"
    android:layout marginTop="26dp"
    android:layout marginEnd="29dp"
    android:ems="10"
    android:inputType="time"
    app:layout_constraintEnd_toStartOf="@+id/B3"
    app:layout constraintStart toEndOf="@+id/T3"
```



```
app:layout_constraintTop_toBottomOf="@+id/B2"
    tools:ignore="SpeakableTextPresentCheck" />
<Button
   android:id="@+id/B1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout_marginTop="175dp"
    android:layout marginEnd="22dp"
    android:text="SET"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/E1"
    app:layout_constraintTop_toTopOf="parent" />
<Button
    android:id="@+id/B2"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout marginTop="10dp"
    android:layout_marginEnd="22dp"
    android:text="SET"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/E2"
    app:layout constraintTop toBottomOf="@+id/B1" />
<Button
   android:id="@+id/B3"
    android:layout_width="wrap_content"
```

```
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```

```
android:layout_height="wrap_content"
android:layout_marginEnd="22dp"
android:text="SET"

app:layout_constraintBaseline_toBaselineOf="@+id/E3"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/E3" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

## TimeDialog.java:

```
package com.example.timepopup;
import android.app.Dialog;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.text.format.Time;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.DialogFragment;
import java.util.Calendar;

public class TimeDialog extends DialogFragment
{
    @NonNull
    @Override
```



```
public Dialog onCreateDialog(@Nullable Bundle savedInstanceState) {
    Calendar c=Calendar.getInstance();
    int hours =c.get(Calendar.HOUR_OF_DAY);
    int minutes=c.get(Calendar.MINUTE);
    TimePickerDialog TPD=new
TimePickerDialog(getActivity(),(TimePickerDialog.OnTimeSetListener)getActivity(),hours,minutes,true);
    return TPD;
}
```

# MainActivity.java:

```
package com.example.timepopup;
import androidx.appcompat.app.AppCompatActivity;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.TimePicker;
public class MainActivity extends AppCompatActivity implements
TimePickerDialog.OnTimeSetListener {
TextView T1,T2,T3;
EditText E1,E2,E3;
Button B1,B2,B3;
String s;
```



@Override

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    T1=findViewById(R.id.T1);
    T2=findViewById(R.id.T2);
    T3=findViewById(R.id. T3);
   E1=findViewById(R.id.E1);
   E2=findViewById(R.id.E2);
   E3=findViewById(R.id.E3);
   B1=findViewById(R.id.B1);
   B2=findViewById(R.id.B2);
   B3=findViewById(R.id.B3);
   B1.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
           TimeDialog T=new TimeDialog();
           T.show(getSupportFragmentManager(), "TimePicker");
           s=T.getTag();
       }
   });
   B2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            TimeDialog T=new TimeDialog();
            T.show(getSupportFragmentManager(), "TimePicker1");
```

}



```
s=T.getTag();
        }
    });
    B3.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            TimeDialog T=new TimeDialog();
            T.show(getSupportFragmentManager(),"TimePicker2");
            s=T.getTag();
        }
    });
}
@Override
public void onTimeSet(TimePicker timePicker, int i, int i1) {
    if(s.equals("TimePicker"))
        E1.setText(String.valueOf(i) + ":" + String.valueOf(i1));
    else if(s.equals("TimePicker1"))
    {
        E2.setText(String.valueOf(i) + ":" + String.valueOf(i1));
    }
    else
    {
        E3.setText(String.valueOf(i) + ":" + String.valueOf(i1));
    }
}
```



# Output:

