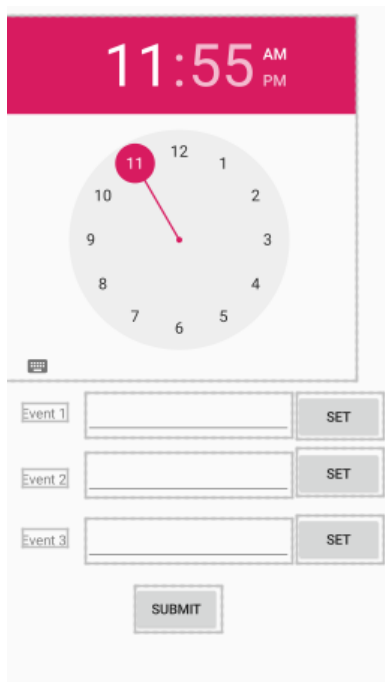


CSE4002 LAB ASSIGNMENT-7

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



XML Code:

```
<?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">

    <TextView
        android:id="@+id/t1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="5dp"
        android:layout_marginEnd="6dp"
        android:layout_marginBottom="7dp"
        android:text="EVENT1"
        app:layout_constraintBottom_toBottomOf="@+id/ed1"
        app:layout_constraintEnd_toStartOf="@+id/ed1"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/t2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```
    android:layout_marginStart="7dp"
    android:layout_marginEnd="8dp"
    android:layout_marginBottom="221dp"
    android:text="EVENT2"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/ed2"
    app:layout_constraintStart_toStartOf="parent" />
```

<TextView

```
    android:id="@+id/t3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="5dp"
    android:layout_marginEnd="6dp"
    android:text="EVENT3"
    app:layout_constraintBaseline_toBaselineOf="@+id/ed3"
    app:layout_constraintEnd_toStartOf="@+id/ed3"
    app:layout_constraintStart_toStartOf="parent" />
```

<EditText

```
    android:id="@+id/ed1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="4dp"
    android:layout_marginBottom="35dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    app:layout_constraintBottom_toTopOf="@+id/ed2"
    app:layout_constraintEnd_toStartOf="@+id/b1"
    app:layout_constraintStart_toEndOf="@+id/t1"
    tools:ignore="SpeakableTextPresentCheck" />
```

<EditText

```
    android:id="@+id/ed2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="8dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    app:layout_constraintBaseline_toBaselineOf="@+id/t2"
    app:layout_constraintEnd_toStartOf="@+id/b2"
    app:layout_constraintStart_toEndOf="@+id/t2"
    tools:ignore="SpeakableTextPresentCheck" />
```

<EditText

```
    android:id="@+id/ed3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="26dp"
    android:layout_marginEnd="4dp"
    android:ems="10"
    android:inputType="textPersonName"
    app:layout_constraintEnd_toStartOf="@+id/b3"
    app:layout_constraintStart_toEndOf="@+id/t3"
    app:layout_constraintTop_toBottomOf="@+id/ed2"
    tools:ignore="TouchTargetSizeCheck,SpeakableTextPresentCheck" />
```

```

<Button
    android:id="@+id/b1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SET"
    app:layout_constraintBaseline_toBaselineOf="@+id/ed1"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/ed1" />

<Button
    android:id="@+id/b2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="206dp"
    android:text="SET"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/ed2"
    app:layout_constraintTop_toBottomOf="@+id/timePicker" />

<Button
    android:id="@+id/b3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SET"
    app:layout_constraintBaseline_toBaselineOf="@+id/ed3"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/ed3" />

<Button
    android:id="@+id/b4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="34dp"
    android:text="SUBMIT"
    app:layout_constraintEnd_toEndOf="@+id/ed3"
    app:layout_constraintStart_toStartOf="@+id/ed3"
    app:layout_constraintTop_toBottomOf="@+id/ed3" />

<TimePicker
    android:id="@+id/timePicker"
    android:layout_width="0dp"
    android:layout_height="0dp"
    android:layout_marginStart="22dp"
    android:layout_marginTop="5dp"
    android:layout_marginEnd="22dp"
    android:layout_marginBottom="83dp"
    app:layout_constraintBottom_toTopOf="@+id/b2"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

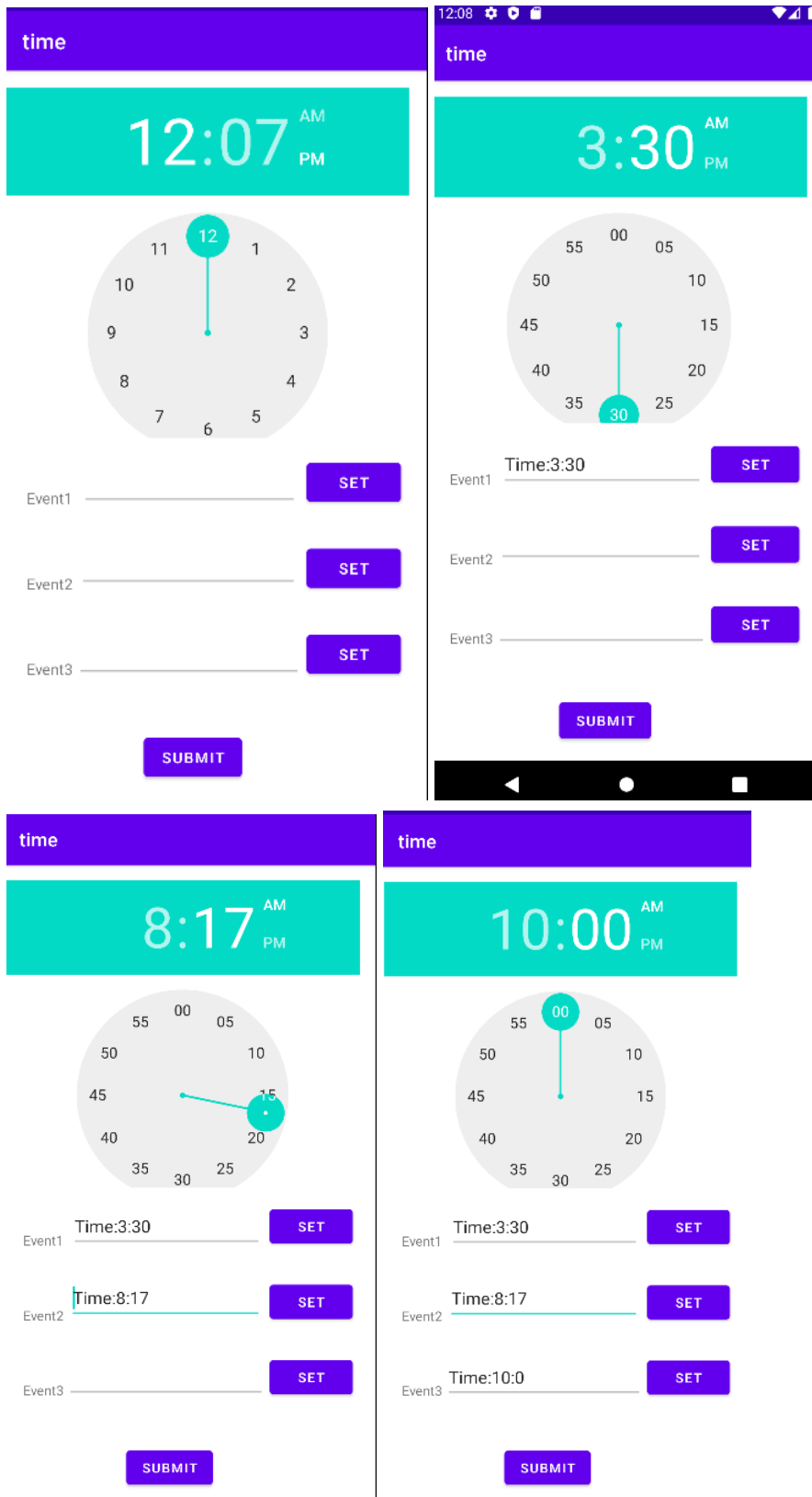
```

Java Code:

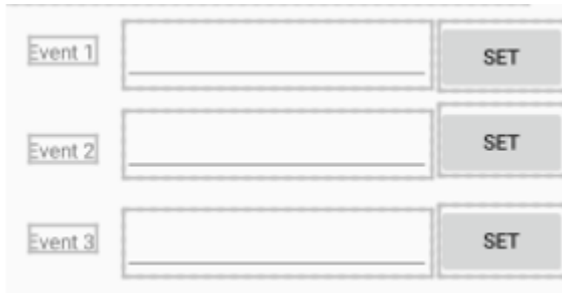
```
package com.example.time;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TimePicker;
public class MainActivity extends AppCompatActivity {
    EditText ed1,ed2,ed3;
    Button b1,b2,b3,b4;
    TimePicker timePicker;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ed1=findViewById(R.id.ed1);
        ed2=findViewById(R.id.ed2);
        ed3=findViewById(R.id.ed3);
        timePicker=findViewById(R.id.timePicker);
        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 v) {
                String currentTime="Time:
"+timePicker.getCurrentHour()+"."+timePicker.getCurrentMinute();
                ed1.setText(currentTime);
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String currentTime="Time:
"+timePicker.getCurrentHour()+"."+timePicker.getCurrentMinute();
                ed2.setText(currentTime);
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String currentTime="Time:
"+timePicker.getCurrentHour()+"."+timePicker.getCurrentMinute();
                ed3.setText(currentTime);
            }
        });
    }
}
```

Output:



2. Design an App for a Dialog based TimePicker.



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

XML Code:

```
<?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">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="20dp"
        android:layout_marginBottom="192dp"
        android:text="Event2"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="20dp"
        android:layout_marginBottom="272dp"
        android:text="Event1"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="51dp"
        android:layout_height="20dp"
        android:layout_marginStart="20dp"
        android:layout_marginBottom="112dp"
        android:text="Event3"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <EditText
        android:id="@+id/editTextTime"
        android:layout_width="202dp"
        android:layout_height="48dp"
```

```
    android:layout_marginEnd="120dp"
    android:layout_marginBottom="272dp"
    android:ems="10"
    android:inputType="time"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    tools:ignore="SpeakableTextPresentCheck" />
```

```
<EditText
    android:id="@+id/editTextTime2"
    android:layout_width="204dp"
    android:layout_height="48dp"
    android:layout_marginEnd="120dp"
    android:layout_marginBottom="196dp"
    android:ems="10"
    android:inputType="time"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    tools:ignore="SpeakableTextPresentCheck" />
```

```
<EditText
    android:id="@+id/editTextTime3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="116dp"
    android:layout_marginBottom="112dp"
    android:ems="10"
    android:inputType="time"
    android:minHeight="48dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    tools:ignore="SpeakableTextPresentCheck" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="24dp"
    android:layout_marginBottom="272dp"
    android:text="SET"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />
```

```
<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="24dp"
    android:layout_marginBottom="192dp"
    android:text="SET"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />
```

```
<Button
    android:id="@+id/button3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="24dp"
```

```

        android:layout_marginBottom="112dp"
        android:text="SET"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

JAVA Code:

```

package com.example.time;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.Button;
import android.view.View;
import android.widget.EditText;
import android.widget.TimePicker;
import android.app.TimePickerDialog;
import java.util.*;

public class MainActivity extends AppCompatActivity {
    EditText t1,t2,t3;
    Button b1,b2,b3;
    TimePicker ti;
    int Time1[]=new int[2];
    int Time2[]=new int[2];
    int Time3[]=new int[2];

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=findViewById(R.id.button);
        b2=findViewById(R.id.button2);
        b3=findViewById(R.id.button3);
        t1=findViewById(R.id.editTextTime);
        t2=findViewById(R.id.editTextTime2);
        t3=findViewById(R.id.editTextTime3);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                time(Time1,t1);
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                time(Time2,t2);
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {

```



```

        @Override
        public void onClick(View v) {
            time(Time3,t3);
        }
    });

}

private void time(int[] t, EditText e)
{
    final Calendar c = Calendar.getInstance();
    t[0] = c.get(Calendar.HOUR_OF_DAY);
    t[1] = c.get(Calendar.MINUTE);
    // Launch Time Picker Dialog
    TimePickerDialog timePickerDialog = new TimePickerDialog(this,
        new TimePickerDialog.OnTimeSetListener() {
            @Override
            public void onTimeSet(TimePicker view, int hourOfDay,
                int minute) {
                e.setText(String.valueOf(hourOfDay + ":" + minute));
                t[0]=hourOfDay;
                t[1]=minute;
            }
        }, t[0], t[1], true);
    timePickerDialog.show();
}
}

```

Output:

