Instructions: VIT-AP UNIVERSITY, ANDHRA PRADESH

Lab Sheet 6: Time picker

Branch/ Class: B.Tech

Academic year: 2021-2022

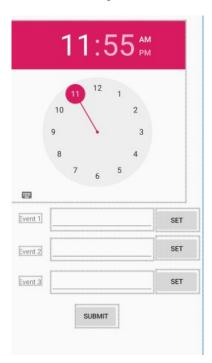
Semester: FallDate: 02-II-202IFaculty Name: Dr.N.AnupamaSchool: SCOPE

NAME: GVS SAI MADHAV REGNO: 19BCN7228

• Fill your Name and REGNO.

- Complete the program, add the code java and XML, input and output Screenshots after the question on the same document.
- Save this File name with your registerno_lab6 eg 18ABC1234_LAB6.doc
- Upload it in assignment ->LAB6 in MS TEAM

1.Deagin 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.



MainActivity.java

package com.example.timepicker;
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;
public class MainActivity extends AppCompatActivity {
TextView t1, t2, t3;
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.61);
b2=findViewById(R.id.62);
b3=findViewById(R.id.63);
b4=findViewById(R.id.b4);
b1.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
String currentTime="Current Time:
"+timePicker.getCurrentHour()+":"+timePicker.getCurrentMinute();
ed1.setText(currentTime);
});
b2.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
String currentTime="Current Time:
"+timePicker.getCurrentHour()+":"+timePicker.getCurrentMinute();
ed2.setText(currentTime);
}
});
b3.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
String currentTime="Current Time:
"+timePicker.getCurrentHour()+":"+timePicker.getCurrentMinute();
ed3.setText(currentTime);
});
Activity_main.xml

/**

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

/*

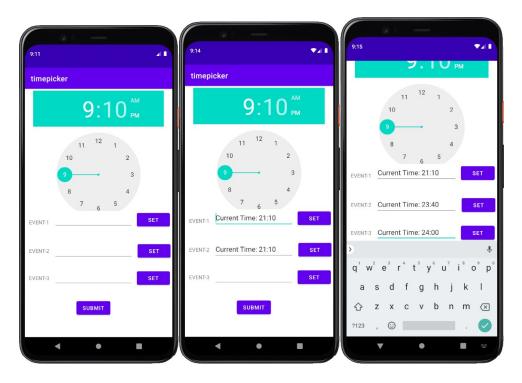
/*

<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"
```

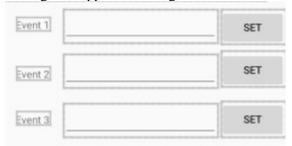
```
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginStart="5dp"
android:layout marginEnd="6dp"
android:layout_marginBottom="7dp"
android:text="EVENT-1"
app:layout_constraintBottom_toBottomOf="@+id/ed1"
app:layout_constraintEnd_toStartOf="@+id/ed1"
app:layout 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="EVENT-2"
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="EVENT-3"
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" />
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>
```

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.

MainActivity.java

```
package com.example.calendar;
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.TimePicker;
import java.util.Calendar;
public class MainActivity extends AppCompatActivity {
private int[] Time1, Time2, Time3;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
final EditText et1 = (EditText) findViewById(R.id.et1);
final EditText et2 = (EditText) findViewById(R.id.et2);
final EditText et3 = (EditText) findViewById(R.id.et3);
Button b1 = (Button) findViewById(R.id. B1);
Button b2 = (Button) findViewById(R.id. B2);
Button b3 = (Button) findViewById(R.id. B3);
Button b4 = (Button) findViewById(R.id.\mathcal{B}4);
Time1 = new int[2];
Time2 = new int[2];
Time3 = new int[2];
b1.setOnClickListener(new View.OnClickListener() { @Override
public void onClick(View v) {
time(Time1,et1);
});
b2.setOnClickListener(new View.OnClickListener() { @Override
public void onClick(View v) {
time(Time2,et2);
});
b3.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
```

```
time (Time3, et3);
});
void time(final int[] t, final 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
e.setText(String.valueOf(hourOfDay + ":" + minute));
t[0]=hourOfDay;
t[1]=minute;
}, t[0], t[1], true); timePickerDialog.show();
activity_main.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">
<Button
android:id="@+id/B1"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:layout marginEnd="16dp"
android:text="SET"
app:layout constraintBaseline toBaselineOf="@+id/et1"
app:layout constraintEnd toEndOf="parent" />
android:id="@+id/B2"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:layout_marginEnd="16dp"
android:text="SET"
app:layout constraintBaseline toBaselineOf="@+id/et2"
app:layout_constraintEnd toEndOf="parent" />
<Button
android:id="@+id/B3"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginEnd="16dp"
android:text="SET"
app:layout constraintBaseline toBaselineOf="@+id/et3"
app:layout constraintEnd toEndOf="parent" />
<EditText
android:id="@+id/et1"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginTop="63dp"
```

```
android:layout marginEnd="22dp"
android:ems="10"
app:layout constraintEnd toStartOf="@+id/B1"
app:layout constraintTop toTopOf="parent" />
<EditText
android:id="@+id/et2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="66dp"
android:layout_marginEnd="22dp"
android:ems="10"
app:layout constraintEnd toStartOf="@+id/B2"
app:layout constraintTop toBottomOf="@+id/B1" />
<EditText
android:id="@+id/et3"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout_marginTop="66dp"
android:layout_marginEnd="22dp"
android:ems="10"
app:layout_constraintEnd_toStartOf="@+id/B3"
app:layout constraintTop toBottomOf="@+id/et2" />
<Button
android:id="@+id/B4"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginTop="105dp"
android:layout marginEnd="32dp"
android:text="Submit"
app:layout constraintEnd toEndOf="@+id/et3"
app:layout_constraintTop_toBottomOf="@+id/et3" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT:

