Instructions: VIT-AP UNIVERSITY, ANDHRA PRADESH
Lab Sheet 6 : Time picker

Academic year: 2021-2022   **Branch/ Class:** B.Tech
Semester: Fall   **Date:** 02-11-2021
Faculty Name: Dr.N.Anupama   **School:** SCOPE

NAME: GVS SAI MADHAV   REGNO: 19BCN7228

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- 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.
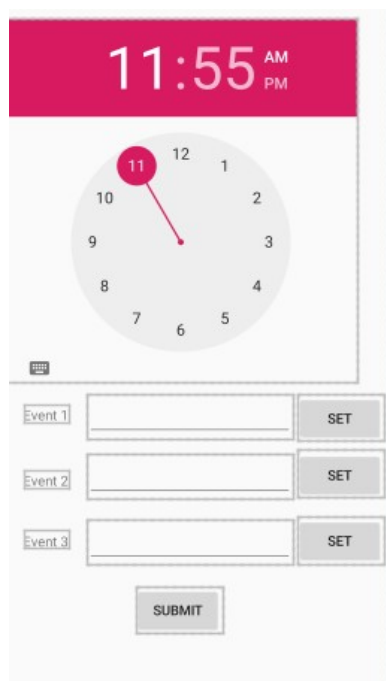
MainActivity.java

```
package com.example.timepicker;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```java
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.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="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

```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">
<TextView
android:id="@+id/t1"
```

```xml
    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"
```

```xml
        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>
```
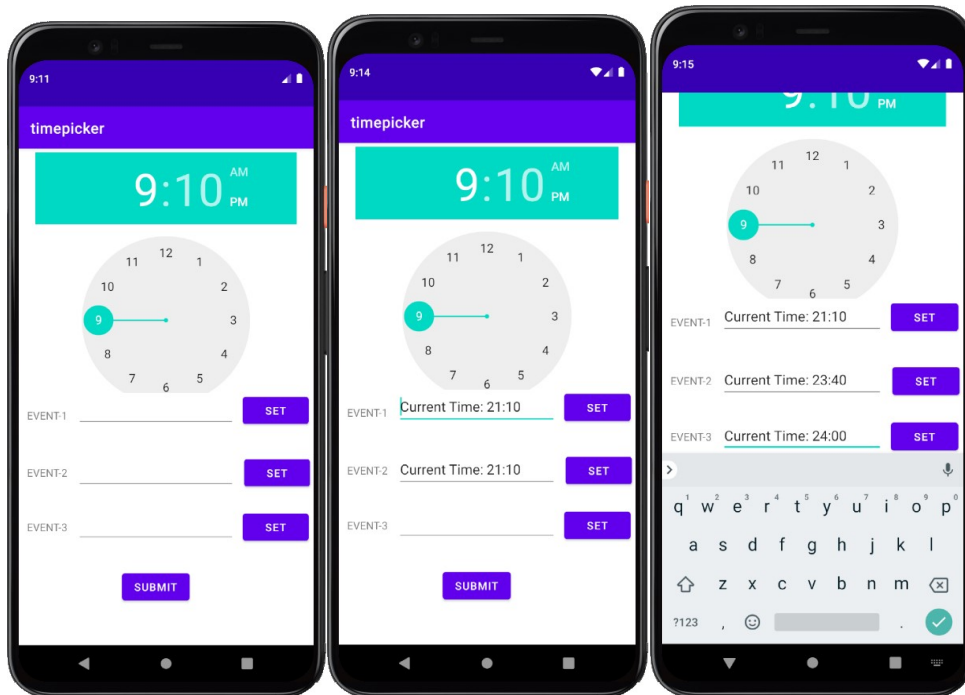
2. Design an App for a Dialog based TimePicker.
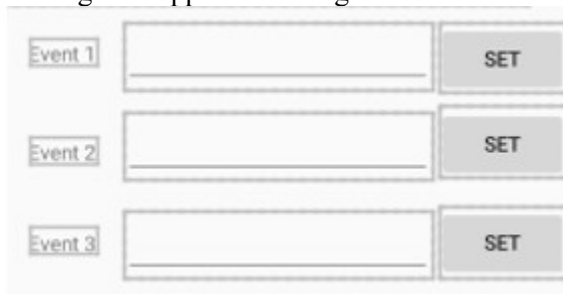


When ever SET button is clicked a timepicker should pop on choosing the date, it should set the date in the EditText and disappear.

## MainActivity.java

```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.B4);
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) {
```

```java
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
minute) {

e.setText(String.valueOf(hourOfDay + ":" + minute));
t[0]=hourOfDay;
t[1]=minute;
}
}, t[0], t[1], true); timePickerDialog.show();
}
}
```

activity_main.xml

```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">
<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" />
<Button
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: