Assignment 1

Hospital Registration Form

Shashanka Venkatesh - 185001145

24th July, 2021

Learning Objective

Generate a registration form for a hospital to register new patient details.

Specifications

- 1. Assign a title for the registration form(TextView- textSize, textStyle , typeface)
- 2. Name. Specify some font and colour. (use TextView, EditText-standard)
- 3. Address (use TextView, EditText-standard)
- 4. Age (TextView, EditText)
- 5. Date of Birth (DatePicker)
- 6. Gender (RadioButton)
- 7. Marital Status (Spinner)
- 8. Contact Number (EditText- inputType, phoneNumber)
- 9. Registration time (TimePicker)
- 10. Addiction (Smoking, Alcohol) (CheckBox)
- 11. Submit (Button)
- 12. Reset (Button)

Registration Page (Main Activity)

XML (activity_registration_form.xml)

```
1 <?xml version="1.0" encoding="utf-8"?>
3 <!--Generate a registration form for a hospital to register new patient
     details as below: -->
4 <!--a. Assign a title for the registration form(TextView-textSize,
     textStyle , typeface)-->
5 <!--b. Name. Specify some font and colour. (use TextView, EditText-
     standard) -->
6 <!--c. Address (use TextView, EditText-standard)-->
7 <!--d. Age (TextView, EditText)-->
8 <!--e. Date of Birth (DatePicker)-->
9 <!--f. Gender (RadioButton)-->
10 <!--g. Marital Status (Spinner)-->
11 <!--h. Contact Number (EditText- inputType, phoneNumber)-->
12 <!--i. Registration time (TimePicker)-->
13 <!--j. Addiction (Smoking, Alcohol) (CheckBox)-->
14 <!--k. Submit (Button)-->
15 <!--1. Reset (Button)-->
17 < Relative Layout
      xmlns:android="http://schemas.android.com/apk/res/android"
19
      xmlns:tools="http://schemas.android.com/tools"
      android:layout_width="match_parent"
      android:layout_height="match_parent"
21
      tools:context=".RegistrationFormActivity">
      <!-- Title -->
      <TextView
          android:id="@+id/tv_title"
          android:layout_width="wrap_content"
          android:layout_height="wrap_content"
          android:layout_centerHorizontal="true"
30
          android:textSize="20sp"
          android:textStyle="bold"
          android:typeface="sans"
32
          android:text="Hospital Patient Registration"
          android:layout_marginVertical="10dp"/>
34
      <!-- Name -->
36
      <LinearLayout
          android:id="@+id/layout_name"
          android:layout_below="@+id/tv_title"
          android:layout_width="match_parent"
40
          android:layout_height="wrap_content"
41
          android:layout_marginHorizontal="10dp">
          <TextView
              android:id="@+id/tv_name"
```

```
android:layout_width="0dp"
               android:layout_height="wrap_content"
46
               android:text="Name"
47
               android:layout_weight=".20"/>
48
          <EditText
49
               android:id="@+id/et_name"
50
               android:layout_width="0dp"
51
               android:layout_height="wrap_content"
52
               android:layout_marginLeft="10dp"
53
               android:ems="12"
               android:layout_weight=".80"/>
55
      </LinearLayout>
56
57
      <!-- Address -->
      <LinearLayout
59
          android:id="@+id/layout_address"
          android:layout_below="@+id/layout_name"
61
          android:layout_width="match_parent"
          android:layout_height="wrap_content"
63
          android:layout_marginHorizontal="10dp">
64
          <TextView
65
               android:id="@+id/tv_address"
               android:layout_width="0dp"
67
               android:layout_height="wrap_content"
68
               android:text="Address"
69
               android:layout_weight=".20"/>
70
          <EditText
71
               android:id="@+id/et_address"
72
               android:layout_width="0dp"
               android:layout_height="wrap_content"
74
               android:layout_marginLeft="10dp"
75
               android: ems = "12"
76
               android:layout_weight=".80"/>
      </LinearLayout>
78
      <!-- Age -->
80
      <LinearLayout
81
          android:id="@+id/layout_age"
82
          android:layout_below="@+id/layout_address"
83
          android:layout_width="match_parent"
          android:layout_height="wrap_content"
85
          android:layout_marginHorizontal="10dp">
86
          <TextView
87
               android:id="@+id/tv_age"
               android:layout_width="0dp"
89
               android:layout_height="wrap_content"
               android:text="Age"
91
               android:layout_weight=".20"/>
           <EditText
93
               android:id="@+id/et_age"
94
               android:layout_width="0dp"
95
```

```
android:layout_height="wrap_content"
                android:layout_marginLeft="10dp"
97
                android:ems="12"
98
                android:layout_weight=".80"/>
99
       </LinearLayout>
100
101
       <!-- DOB -->
102
       <LinearLayout
103
           android:id="@+id/layout_dob"
104
           android:layout_below="@+id/layout_age"
           android:layout_width="match_parent"
106
           android:layout_height="wrap_content"
107
           android:layout_marginHorizontal="10dp">
108
           <TextView
109
                android:id="@+id/tv_dob"
110
                android:layout_width="0dp"
111
                android:layout_height="wrap_content"
112
                android:text="DOB"
113
                android:layout_weight=".20"/>
114
           <EditText
115
                android:id="@+id/et_dob"
116
                android:layout_width="0dp"
117
                android:layout_height="wrap_content"
118
                android:layout_marginLeft="10dp"
119
                android: ems = "12"
120
                android:layout_weight=".80"/>
121
       </LinearLayout>
122
123
       <!-- Gender -->
124
       <LinearLayout
125
           android:id="@+id/layout_gender"
126
           android:layout_below="@+id/layout_dob"
127
           android:layout_width="match_parent"
           android:layout_height="wrap_content"
129
           android:layout_marginHorizontal="10dp"
130
           android:gravity="center_vertical|left">
131
           <TextView
132
                android:id="@+id/tv_gender"
133
                android:layout_width="0dp"
134
                android:layout_height="wrap_content"
135
                android:text="Gender"
136
                android:layout_weight=".20"/>
137
           <RadioGroup
138
                android:id="@+id/rg_gender"
139
                android:orientation="horizontal"
140
                android:layout_width="0dp"
141
                android:layout_height="wrap_content"
142
                android:layout_weight=".80"
143
                android:layout_marginLeft="10dp">
144
                <RadioButton
145
                    android:layout_width="0dp"
146
```

```
android:layout_height="wrap_content"
147
                    android:text="Male"
148
                    android:layout_weight=".50"/>
149
                <RadioButton
150
                    android:layout_width="0dp"
151
                    android:layout_height="wrap_content"
152
                    android:text="Female"
153
                    android:layout_weight=".50"/>
154
           </RadioGroup>
155
       </LinearLayout>
156
157
       <!-- Marital Status -->
158
       <LinearLayout
159
           android:id="@+id/layout_marital"
160
           android:layout_marginTop="10dp"
161
           android:layout_below="@+id/layout_gender"
           android:layout_width="match_parent"
163
           android:layout_height="wrap_content"
164
           android:layout_marginHorizontal="10dp"
165
           android:gravity="center_vertical|left">
166
           <TextView
167
                android:id="@+id/tv_marital"
168
                android:layout_width="0dp"
169
                android:layout_height="wrap_content"
170
                android:text="Marital Status"
171
                android:layout_weight=".20"/>
172
           <Spinner
173
                android:id="@+id/sp_marital"
174
                android:layout_width="0dp"
                android:layout_marginLeft="10dp"
176
                android:layout_height="wrap_content"
177
                android:layout_weight=".80"/>
178
       </LinearLayout>
179
180
       <!-- Contact Number -->
181
       <LinearLayout
182
           android:id="@+id/layout_contact"
183
           android:layout_below="@+id/layout_marital"
184
           android:layout_width="match_parent"
185
           android:layout_height="wrap_content"
186
           android:layout_marginHorizontal="10dp">
187
           <TextView
188
                android:id="@+id/tv_contact"
189
                android:layout_width="0dp"
190
                android:layout_height="wrap_content"
191
                android:text="Contact No."
192
                android:layout_weight=".20"/>
193
           <EditText
194
                android:id="@+id/et_contact"
195
                android:layout_width="0dp"
196
                android:layout_height="wrap_content"
197
```

```
android:layout_marginLeft="10dp"
                android: ems = "12"
199
                android:layout_weight=".80"/>
200
       </LinearLayout>
201
202
       <!-- Registration Time -->
203
       <LinearLayout
204
           android:id="@+id/layout_reg_time"
205
           android:layout_marginTop="10dp"
206
           android:layout_below="@+id/layout_contact"
207
           android:layout_width="match_parent"
208
           android:layout_height="wrap_content"
           android:layout_marginHorizontal="10dp">
210
           <TextView
211
                android:id="@+id/tv_reg_time"
212
                android:layout_width="0dp"
213
                android:layout_height="wrap_content"
214
                android:text="Reg Time"
                android:layout_weight=".20"/>
216
           <EditText
217
                android:id="@+id/et_reg_time"
218
                android:layout_width="0dp"
219
                android:layout_marginLeft="10dp"
220
                android: ems = "12"
221
                android:layout_height="wrap_content"
222
                android:layout_weight=".80"/>
223
       </LinearLayout>
224
225
       <!-- Addiction -->
226
       <LinearLayout
227
           android:id="@+id/layout_addict"
228
           android:layout_marginTop="10dp"
229
           android:layout_below="@+id/layout_reg_time"
230
           android:layout_width="match_parent"
231
           android:layout_height="wrap_content"
232
           android:layout_marginHorizontal="5dp"
233
           android:gravity="center_vertical|left">
234
           <TextView
235
                android:id="@+id/tv_addict"
236
                android:layout_width="0dp"
237
                android:layout_height="wrap_content"
238
                android:text="Addiction"
239
                android:layout_weight=".20"/>
240
           <CheckBox
241
                android:id="@+id/ck_smoke"
242
                android:layout_marginLeft="10dp"
243
                android:layout_width="0dp"
244
                android:layout_height="wrap_content"
245
                android:text="Smoking"
246
                android:layout_weight=".40"/>
247
            <CheckBox
248
```

```
android:id="@+id/ck_alcohol"
                android:layout_width="Odp"
250
                android:layout_height="wrap_content"
251
                android:text="Alcohol"
252
                android:layout_weight=".40"/>
253
       </LinearLayout>
254
255
       <LinearLayout
256
           android:layout_width="match_parent"
257
           android:layout_height="wrap_content"
258
           android:layout_below="@+id/layout_addict">
259
           <Button
                android:id="@+id/bt_submit"
261
                android:layout_below="@+id/layout_addict"
262
                android:layout_margin="20dp"
263
                android:layout_width="Odp"
                android:layout_height="wrap_content"
265
                android:text="Submit"
266
                android:layout_weight="0.20"/>
267
           <Button
268
                android:id="@+id/bt_reset"
269
                android:layout_below="@+id/layout_addict"
270
                android:layout_margin="20dp"
271
                android:layout_toRightOf="@+id/bt_submit"
272
                android:layout_width="0dp"
273
                android:layout_height="wrap_content"
274
                android:text="Reset"
275
                android:layout_weight="0.20"/>
276
       </LinearLayout>
277
278 </RelativeLayout>
```

Java (RegistrationFormActivity.java)

```
package com.madlab.hospitalregistrationform;
3 import androidx.appcompat.app.AppCompatActivity;
4 import android.os.Bundle;
5 import android.app.DatePickerDialog;
6 import android.app.TimePickerDialog;
7 import android.content.Intent;
8 import android.content.SharedPreferences;
9 //import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Spinner;
19 import android.widget.TimePicker;
20 import java.text.SimpleDateFormat;
21 import java.util.Calendar;
22 import java.util.Locale;
24 public class RegistrationFormActivity extends AppCompatActivity {
25
      @Override
26
      protected void onCreate(Bundle savedInstanceState) {
27
          super.onCreate(savedInstanceState);
          setContentView(R.layout.activity_registration_form);
          final EditText et_name=findViewById(R.id.et_name);
31
          final EditText et_address=findViewById(R.id.et_address);
32
          final EditText et_age=findViewById(R.id.et_age);
33
          final EditText et_dob=findViewById(R.id.et_dob);
          final RadioGroup rg_gender=findViewById(R.id.rg_gender);
35
          final Spinner sp_marital=findViewById(R.id.sp_marital);
36
          final EditText et_contact=findViewById(R.id.et_contact);
          final EditText et_reg_time=findViewById(R.id.et_reg_time);
38
          final CheckBox ck_smoke=findViewById(R.id.ck_smoke);
          final CheckBox ck_alcohol=findViewById(R.id.ck_alcohol);
40
          Button bt_submit=findViewById(R.id.bt_submit);
42
          Button bt_reset=findViewById(R.id.bt_reset);
43
44
          ArrayAdapter < CharSequence >
                  adapter=ArrayAdapter.createFromResource(this,R.array.
     marital, android.R.layout.simple_spinner_item);
          adapter.setDropDownViewResource(android.R.layout.
47
     simple_spinner_dropdown_item);
```

```
sp_marital.setAdapter(adapter);
          et_dob.setOnFocusChangeListener(new View.OnFocusChangeListener() {
49
               @Override
50
               public void onFocusChange(View v, boolean hasFocus) {
51
                   Calendar c=Calendar.getInstance();
52
                   if(hasFocus){
53
                       new DatePickerDialog(RegistrationFormActivity.this,
54
     new DatePickerDialog.OnDateSetListener() {
                           @Override
55
                           public void onDateSet(DatePicker view, int year,
56
     int month, int dayOfMonth) {
                                c.set(year, month, dayOfMonth);
57
                                SimpleDateFormat sdf=new SimpleDateFormat("dd/
58
     MM/yyyy", Locale.US);
                                et_dob.setText(sdf.format(c.getTime()));
59
                           }
60
                       },c.get(Calendar.YEAR),c.get(Calendar.MONTH),c.get(
61
     Calendar.DAY_OF_MONTH)).show();
                   }
62
              }
63
          });
64
          et_reg_time.setOnFocusChangeListener(new View.
     OnFocusChangeListener() {
               @Override
66
               public void onFocusChange(View v, boolean hasFocus) {
67
                   Calendar c=Calendar.getInstance();
68
                   if(hasFocus){
69
                       new TimePickerDialog(RegistrationFormActivity.this,
70
     new TimePickerDialog.OnTimeSetListener() {
                           @Override
71
                           public void onTimeSet(TimePicker view, int
72
     hourOfDay, int minute) {
                                et_reg_time.setText(String.format(Integer.
73
     toString(hourOfDay)
                                        +":"+Integer.toString(minute)));
74
75
                       },c.get(Calendar.HOUR_OF_DAY),c.get(Calendar.MINUTE),
76
     false).show();
77
               }
78
          });
79
          bt_submit.setOnClickListener(new View.OnClickListener() {
80
81
               public void onClick(View v) {
82
                   SharedPreferences Status=getSharedPreferences("status",
83
     MODE_PRIVATE);
                   SharedPreferences.Editor EStatus=Status.edit();
84
                   EStatus.putString("name",et_name.getEditableText().
     toString()); EStatus.apply();
                   EStatus.putString("address",et_address.getEditableText().
     toString()); EStatus.apply();
```

```
EStatus.putString("age",et_age.getEditableText().toString
      ()); EStatus.apply();
                    EStatus.putString("dob",et_dob.getEditableText().toString
88
      ()); EStatus.apply();
                    EStatus.putString("gender",
89
                            ((RadioButton)findViewById(rg_gender.
an
      getCheckedRadioButtonId())).getText().toString());
                    EStatus.apply();
91
                    EStatus.putString("marital",sp_marital.getSelectedItem().
92
      toString()); EStatus.apply();
                    EStatus.putString("contact",et_contact.getEditableText().
93
      toString()); EStatus.apply();
                    EStatus.putString("reg_time",et_reg_time.getEditableText()
94
      .toString()); EStatus.apply();
                   String str="";
95
                   if(ck_smoke.isChecked())
96
                        str+="Smoking ";
97
                    if(ck_alcohol.isChecked())
                        str+="Alcohol ";
99
                    EStatus.putString("addict",str); EStatus.apply();
100
                    startActivity(new Intent(getApplicationContext(),
101
      DetailsActivity.class));
               }
102
           });
103
           bt_reset.setOnClickListener(new View.OnClickListener() {
104
               @Override
105
               public void onClick(View v) {
106
                    startActivity(new Intent(getApplicationContext(),
107
      RegistrationFormActivity.class));
108
           });
109
       }
110
111 }
```

Details Page

XML (activity_details.xml)

```
1 <?xml version="1.0" encoding="utf-8"?>
3 <!--Generate a registration form for a hospital to register new patient
     details as below: -->
4 <!--a. Assign a title for the registration form(TextView-textSize,
     textStyle , typeface)-->
5 <!--b. Name. Specify some font and colour. (use TextView, EditText-
     standard) -->
6 <!--c. Address (use TextView, EditText-standard)-->
7 <!--d. Age (TextView, EditText)-->
8 <!--e. Date of Birth (DatePicker)-->
9 <!--f. Gender (RadioButton)-->
10 <!--g. Marital Status (Spinner)-->
11 <!--h. Contact Number (EditText- inputType, phoneNumber)-->
12 <!--i. Registration time (TimePicker)-->
13 <!--j. Addiction (Smoking, Alcohol) (CheckBox)-->
14
15 < RelativeLayout
      xmlns:android="http://schemas.android.com/apk/res/android"
16
      xmlns:tools="http://schemas.android.com/tools"
      android:layout_width="match_parent"
18
      android:layout_height="match_parent"
19
      tools:context=".DetailsActivity">
20
21
      <!-- Title -->
22
      <TextView
23
          android:id="@+id/tv_title"
          android:layout_width="wrap_content"
          android:layout_height="wrap_content"
26
          android:layout_centerHorizontal="true"
27
          android:textSize="20sp"
          android:textStyle="bold"
29
          android:typeface="sans"
          android:text="Patient Details"
31
          android:layout_marginVertical="5dp"/>
33
      <TableLayout
          android:layout_width="match_parent"
35
36
          android:layout_height="match_parent"
          android:layout_below="@+id/tv_title">
37
          <TableRow
38
              android:layout_margin="10dp">
              <TextView
40
                   android:id="@+id/tv_name1"
41
42
                   android:layout_width="wrap_content"
                   android:layout_height="wrap_content"
43
                   android:text="Name"/>
44
```

```
<TextView
                   android:id="@+id/tv_name"
46
                   android:layout_width="wrap_content"
                   android:layout_height="wrap_content"
48
                   android:layout_marginLeft="20dp"/>
49
           </TableRow>
50
           <TableRow
51
               android:layout_margin="10dp">
52
               <TextView
53
                   android:id="@+id/tv_address1"
                   android:layout_width="wrap_content"
                   android:layout_height="wrap_content"
                   android:text="Address"/>
57
               < Text View
                   android:id="@+id/tv_address"
59
                   android:layout_width="wrap_content"
                   android:layout_height="wrap_content"
61
                   android:layout_marginLeft="20dp"/>
          </TableRow>
63
          <TableRow
               android:layout_margin="10dp">
65
               <TextView
                   android:id="@+id/tv_age1"
67
                   android:layout_width="wrap_content"
68
                   android:layout_height="wrap_content"
69
                   android:text="Age"/>
70
               <TextView
71
                   android:id="@+id/tv_age"
72
                   android:layout_width="wrap_content"
                   android:layout_height="wrap_content"
74
                   android:layout_marginLeft="20dp"/>
75
          </TableRow>
76
          <TableRow
               android:layout_margin="10dp">
78
               <TextView
                   android:id="@+id/tv_dob1"
80
                   android:layout_width="wrap_content"
81
                   android:layout_height="wrap_content"
82
                   android:text="DOB"/>
83
               <TextView
84
                   android:id="@+id/tv_dob"
85
                   android:layout_width="wrap_content"
86
                   android:layout_height="wrap_content"
87
                   android:layout_marginLeft="20dp"/>
          </TableRow>
89
          <TableRow
90
               android:layout_margin="10dp">
91
               <TextView
92
                   android:id="@+id/tv_gender1"
93
                   android:layout_width="wrap_content"
94
                   android:layout_height="wrap_content"
95
```

```
android:text="Gender"/>
                <TextView
97
                    android:id="@+id/tv_gender"
98
                    android:layout_width="wrap_content"
99
                    android:layout_height="wrap_content"
100
                    android:layout_marginLeft="20dp"/>
101
           </TableRow>
102
           <TableRow
103
                android:layout_margin="10dp">
104
                <TextView
                    android:id="@+id/tv_marital1"
106
                    android:layout_width="wrap_content"
107
                    android:layout_height="wrap_content"
108
                    android:text="Marital Status"/>
109
                <TextView
110
                    android:id="@+id/tv_marital"
111
                    android:layout_width="wrap_content"
112
                    android:layout_height="wrap_content"
                    android:layout_marginLeft="20dp"/>
114
           </TableRow>
115
           <TableRow
116
                android:layout_margin="10dp">
117
                <TextView
118
                    android:id="@+id/tv_contact1"
119
                    android:layout_width="wrap_content"
120
                    android:layout_height="wrap_content"
121
                    android:text="Contact Number"/>
122
                <TextView
123
                    android:id="@+id/tv_contact"
124
                    android:layout_width="wrap_content"
125
                    android:layout_height="wrap_content"
126
                    android:layout_marginLeft="20dp"/>
127
           </TableRow>
128
           <TableRow
129
                android:layout_margin="10dp">
130
                <TextView
131
                    android:id="@+id/tv_reg_time1"
132
                    android:layout_width="wrap_content"
133
                    android:layout_height="wrap_content"
134
                    android:text="Reg Time"/>
135
                <TextView
136
                    android:id="@+id/tv_reg_time"
137
                    android:layout_width="wrap_content"
138
                    android:layout_height="wrap_content"
139
                    android:layout_marginLeft="20dp"/>
140
           </TableRow>
141
           <TableRow
142
                android:layout_margin="10dp">
143
                <TextView
144
                    android:id="@+id/tv_addict1"
145
                    android:layout_width="wrap_content"
146
```

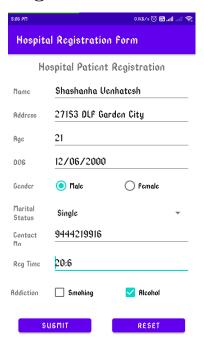
```
android:layout_height="wrap_content"
                    android:text="Addiction"/>
148
               <TextView
149
                    android:id="@+id/tv_addict"
150
                    android:layout_width="wrap_content"
151
                    android:layout_height="wrap_content"
152
                    android:layout_marginLeft="20dp"/>
153
           </TableRow>
154
       </TableLayout>
155
156
157 </RelativeLayout>
```

${f Java}$ (DetailsActivity.java)

```
package com.madlab.hospitalregistrationform;
3 import androidx.appcompat.app.AppCompatActivity;
5 import android.content.SharedPreferences;
6 import android.os.Bundle;
7 import android.widget.TextView;
 public class DetailsActivity extends AppCompatActivity {
10
      @Override
      protected void onCreate(Bundle savedInstanceState) {
12
          super.onCreate(savedInstanceState);
13
          setContentView(R.layout.activity_details);
14
          final TextView tv_name=findViewById(R.id.tv_name);
          final TextView tv_address=findViewById(R.id.tv_address);
16
          final TextView tv_age=findViewById(R.id.tv_age);
17
          final TextView tv_dob=findViewById(R.id.tv_dob);
          final TextView tv_gender=findViewById(R.id.tv_gender);
19
          final TextView tv_marital=findViewById(R.id.tv_marital);
20
          final TextView tv_contact=findViewById(R.id.tv_contact);
21
          final TextView tv_reg_time=findViewById(R.id.tv_reg_time);
          final TextView tv_addict=findViewById(R.id.tv_addict);
23
24
          SharedPreferences Status=getSharedPreferences("status",
25
     MODE_PRIVATE);
          tv_name.setText(Status.getString("name",null));
26
          tv_address.setText(Status.getString("address",null));
          tv_age.setText(Status.getString("age",null));
          tv_dob.setText(Status.getString("dob",null));
          tv_gender.setText(Status.getString("gender",null));
30
          tv_marital.setText(Status.getString("marital",null));
31
          tv_contact.setText(Status.getString("contact",null));
          tv_reg_time.setText(Status.getString("reg_time",null));
          tv_addict.setText(Status.getString("addict",null));
      }
36 }
```

App Screenshots

Registration Form



Details Page

