SSN COLLEGE OF ENGINEERING, KALAVAKKAM DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

UCS1711 - MOBILE APPLICATION DEVELOPMENT LAB Assignment 1

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Generate a Health Insurance registration form to register the patient details under each group.

Patient Details

a. Assign a title for the registration form(TextView- textSize, textStyle , typeface)

Group1 Patient Details

- b. Patient Name. Specify some font and colour. (use TextView, EditText-standard)
- c. Patient Phone Number (Mobile or Landline use Checkbox)
- d. Address (use TextView, EditText-standard)
- e. Age (TextView, EditText)
- f. Date of Birth (DatePicker)
- g. Gender (RadioButton)
- h. Marital Status (Spinner)

Employer Details

- a) Patient Employer
- b) Employment Status (full time, parttime, unemployed, retired, student, other Checkbox)

Emergency contact Details

- a) Name (EditText)
- b) Relationship (EditText)
- c) Address (Textarea)
- d) Phone Number (EditText- inputType, phoneNumber)

Use Submit (Button) to submit the details and display the contents. Use Reset button to clear the form.

Additional: Display using Table layout create an output window using OPENGL and to draw the following basic output primitives:

Source code:

• MainActivity.java

```
package com.sampleapp.healthinsurance;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Spinner;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import android.widget.CheckBox;
import android.widget.DatePicker;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    EditText patientNameEditText, addressEditText, ageEditText, employerEditText,
            emergencyNameEditText, relationshipEditText, emergencyAddressEditText,
            emergencyPhoneNumberEditText;
    RadioGroup genderRadioGroup;
    RadioButton maleRadioButton, femaleRadioButton, otherRadioButton;
    Spinner maritalStatusSpinner;
    CheckBox mobileCheckBox, landlineCheckBox, fullTimeCheckBox, partTimeCheckBox;
   DatePicker dateOfBirthDatePicker;
    Button submitButton, resetButton;
   @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        patientNameEditText = findViewById(R.id.patientNameEditText);
        addressEditText = findViewById(R.id.addressEditText);
        ageEditText = findViewById(R.id.ageEditText);
        employerEditText = findViewById(R.id.employerEditText);
        emergencyNameEditText = findViewById(R.id.emergencyNameEditText);
        relationshipEditText = findViewById(R.id.relationshipEditText);
        emergencyAddressEditText = findViewById(R.id.emergencyAddressEditText);
        emergencyPhoneNumberEditText = findViewById(R.id.emergencyPhoneNumberEditText);
        genderRadioGroup = findViewById(R.id.genderRadioGroup);
```

```
maleRadioButton = findViewById(R.id.maleRadioButton);
       femaleRadioButton = findViewById(R.id.femaleRadioButton);
       otherRadioButton = findViewById(R.id.otherRadioButton);
       maritalStatusSpinner = findViewById(R.id.maritalStatusSpinner);
       mobileCheckBox = findViewById(R.id.mobileCheckBox);
       landlineCheckBox = findViewById(R.id.landlineCheckBox);
       fullTimeCheckBox = findViewById(R.id.fullTimeCheckBox);
       partTimeCheckBox = findViewById(R.id.partTimeCheckBox);
       dateOfBirthDatePicker = findViewById(R.id.dateOfBirthDatePicker);
       submitButton = findViewById(R.id.submitButton);
       resetButton = findViewById(R.id.resetButton);
       submitButton.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View view) {
               String patientName = patientNameEditText.getText().toString();
               String address = addressEditText.getText().toString();
                int age = Integer.parseInt(ageEditText.getText().toString());
               String employer = employerEditText.getText().toString();
                String emergencyContactName = emergencyNameEditText.getText().toString();
               String relationship = relationshipEditText.getText().toString();
                String emergencyContactAddress =
emergencyAddressEditText.getText().toString();
                String emergencyContactPhoneNumber =
emergencyPhoneNumberEditText.getText().toString();
               int selectedGenderId = genderRadioGroup.getCheckedRadioButtonId();
               RadioButton selectedGenderRadioButton = findViewById(selectedGenderId);
               String gender = selectedGenderRadioButton.getText().toString();
               String maritalStatus = maritalStatusSpinner.getSelectedItem().toString();
               StringBuilder checkBoxes = new StringBuilder();
                if (mobileCheckBox.isChecked()) {
                   checkBoxes.append("Mobile, ");
               if (landlineCheckBox.isChecked()) {
                   checkBoxes.append("Landline, ");
                if (fullTimeCheckBox.isChecked()) {
                   checkBoxes.append("Full Time, ");
                if (partTimeCheckBox.isChecked()) {
                   checkBoxes.append("Part Time, ");
               int year = dateOfBirthDatePicker.getYear();
                int month = dateOfBirthDatePicker.getMonth() + 1;
                int day = dateOfBirthDatePicker.getDayOfMonth();
                String dateOfBirth = year + "-" + month + "-" + day;
                Intent intent = new Intent(MainActivity.this, DisplayDataActivity.class);
```

```
intent.putExtra("patientName", patientName);
        intent.putExtra("address", address);
        intent.putExtra("age", age);
        intent.putExtra("employer", employer);
        startActivity(intent);
});
resetButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        patientNameEditText.getText().clear();
        addressEditText.getText().clear();
        ageEditText.getText().clear();
        employerEditText.getText().clear();
        emergencyNameEditText.getText().clear();
        relationshipEditText.getText().clear();
        emergencyAddressEditText.getText().clear();
        emergencyPhoneNumberEditText.getText().clear();
        genderRadioGroup.clearCheck();
        maritalStatusSpinner.setSelection(0);
        mobileCheckBox.setChecked(false);
        landlineCheckBox.setChecked(false);
        fullTimeCheckBox.setChecked(false);
        partTimeCheckBox.setChecked(false);
        Calendar calendar = Calendar.getInstance();
        int year = calendar.get(Calendar.YEAR);
        int month = calendar.get(Calendar.MONTH);
        int day = calendar.get(Calendar.DAY_OF_MONTH);
        dateOfBirthDatePicker.updateDate(year, month, day);
});
Calendar calendar = Calendar.getInstance();
SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");
String currentDate = dateFormat.format(calendar.getTime());
String[] dateParts = currentDate.split("-");
int year = Integer.parseInt(dateParts[0]);
int month = Integer.parseInt(dateParts[1]) - 1;
int day = Integer.parseInt(dateParts[2]);
dateOfBirthDatePicker.init(year, month, day, null);
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent" android:layout_height="wrap_content">
```

```
<LinearLayout android:layout_width="match_parent" android:layout_height="wrap_content"</pre>
android:orientation="vertical" android:padding="16dp">
        <TextView android:layout_width="wrap_content" android:layout_height="wrap_content"</pre>
android:text="@string/health insurance registration form" android:textSize="24sp"
android:textStyle="bold" android:typeface="serif" android:layout_gravity="center"
android:layout_marginBottom="16dp"/>
        <TableLayout android:layout width="match parent"
android:layout_height="wrap_content">
                <TextView android:layout width="wrap content"
android:layout height="wrap content" android:text="Patient Details"
android:textStyle="bold" android:layout_span="2" android:paddingBottom="8dp"
android:paddingTop="16dp"/>
            </TableRow>
            <TableRow>
                <TextView android:layout width="wrap content"
android:layout_height="wrap_content" android:text="Patient Name:"
android:textColor="#000000" android:paddingEnd="8dp"/>
                <EditText android:id="@+id/patientNameEditText" android:layout width="0dp"
android:layout_height="wrap_content" android:hint="Enter patient name"
android:layout_weight="1"/>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap content"
android:layout_height="wrap_content" android:text="Patient Phone Number:"
android:textColor="#000000" android:paddingEnd="8dp"/>
                <CheckBox android:id="@+id/mobileCheckBox"</pre>
android:layout_width="wrap_content" android:layout_height="wrap_content"
android:text="Mobile"/>
                <CheckBox android:id="@+id/landlineCheckBox"</pre>
android:layout_width="wrap_content" android:layout_height="wrap_content"
android:text="Landline"/>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap content"
android:layout_height="wrap_content" android:text="Address:" android:textColor="#000000"
android:paddingEnd="8dp"/>
                <EditText android:id="@+id/addressEditText" android:layout_width="0dp"
android:layout_height="wrap_content" android:hint="Enter address"
android:layout_weight="1"/>
            </TableRow>
                <TextView android:layout_width="wrap_content"
android:layout_height="wrap_content" android:text="Age:" android:textColor="#000000"
android:paddingEnd="8dp"/>
```

```
<EditText android:id="@+id/ageEditText" android:layout_width="0dp"
android:layout_height="wrap_content" android:hint="Enter age" android:inputType="number"
android:layout weight="1"/>
            </TableRow>
            <TableRow>
                <TextView android:layout width="wrap content"
android:layout_height="wrap_content" android:text="Date of Birth:"
android:textColor="#000000" android:paddingEnd="8dp"/>
                <DatePicker android:id="@+id/dateOfBirthDatePicker"</pre>
android:layout_width="0dp" android:layout_height="wrap_content"
android:layout_weight="1"/>
            </TableRow>
            <TableRow>
                <TextView android:layout width="wrap content"
android:layout height="wrap content" android:text="Gender:" android:textColor="#000000"
android:paddingEnd="8dp"/>
                <RadioGroup android:id="@+id/genderRadioGroup" android:layout_width="0dp"</pre>
android:layout_height="wrap_content" android:orientation="horizontal"
android:layout_weight="1">
                    <RadioButton android:id="@+id/maleRadioButton"</pre>
android:layout width="wrap content" android:layout height="wrap content"
android:text="Male"/>
                    <RadioButton android:id="@+id/femaleRadioButton"</pre>
android:layout_width="wrap_content" android:layout_height="wrap_content"
android:text="Female"/>
                    <RadioButton android:id="@+id/otherRadioButton"</pre>
android:layout_width="wrap_content" android:layout_height="wrap_content"
android:text="Other"/>
                </RadioGroup>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap_content"
android:layout_height="wrap_content" android:text="Marital Status:"
android:textColor="#000000" android:paddingEnd="8dp"/>
                <Spinner android:id="@+id/maritalStatusSpinner" android:layout width="0dp"</pre>
android:layout_height="wrap_content" android:layout_weight="1"/>
            </TableRow>
            <TableRow>
                <TextView android:layout width="wrap content"
android:layout_height="wrap_content" android:text="Employer Details"
android:textStyle="bold" android:layout_span="2" android:paddingBottom="8dp"
android:paddingTop="16dp"/>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap content"
android:layout_height="wrap_content" android:text="Patient Employer:"
android:textColor="#000000" android:paddingEnd="8dp"/>
```

```
<EditText android:id="@+id/employerEditText" android:layout_width="0dp'
android:layout_height="wrap_content" android:hint="Enter employer"
android:layout weight="1"/>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap_content"
android:layout_height="wrap_content" android:text="Employment Status:"
android:textColor="#000000" android:paddingEnd="8dp"/>
                <CheckBox android:id="@+id/fullTimeCheckBox"</pre>
android:layout_width="wrap_content" android:layout_height="wrap_content"
android:text="Full Time"/>
                <CheckBox android:id="@+id/partTimeCheckBox"</pre>
android:layout_width="wrap_content" android:layout_height="wrap_content"
android:text="Part Time"/>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap_content"
android:layout_height="wrap_content" android:text="Emergency Contact Details"
android:textStyle="bold" android:layout_span="2" android:paddingBottom="8dp"
android:paddingTop="16dp"/>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap_content"
android:layout height="wrap content" android:text="Name:" android:textColor="#000000"
android:paddingEnd="8dp"/>
                <EditText android:id="@+id/emergencyNameEditText"
android:layout_width="0dp" android:layout_height="wrap_content" android:hint="Enter
emergency contact name" android:layout_weight="1"/>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap_content"</pre>
android:layout_height="wrap_content" android:text="Relationship:"
android:textColor="#000000" android:paddingEnd="8dp"/>
                <EditText android:id="@+id/relationshipEditText"
android:layout_width="0dp" android:layout_height="wrap_content" android:hint="Enter
relationship" android:layout weight="1"/>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap_content"
android:layout_height="wrap_content" android:text="Address:" android:textColor="#000000"
android:paddingEnd="8dp"/>
                <EditText android:id="@+id/emergencyAddressEditText"
android:layout_width="0dp" android:layout_height="wrap_content" android:hint="Enter
emergency contact address" android:layout_weight="1"/>
            </TableRow>
            <TableRow>
                <TextView android:layout_width="wrap_content"
android:layout_height="wrap_content" android:text="Phone Number:"
android:textColor="#000000" android:paddingEnd="8dp"/>
```

```
<EditText android:id="@+id/emergencyPhoneNumberEditText"
android:layout width="0dp" android:layout height="wrap content" android:hint="Enter
emergency contact phone number" android:inputType="phone" android:layout_weight="1"/>
            </TableRow>
            <TableRow>
                <Button android:id="@+id/submitButton" android:layout width="wrap content"
android:layout_height="wrap_content" android:text="Submit" android:layout_gravity="center"
android:layout span="2" android:layout marginTop="16dp"/>
            </TableRow>
            <TableRow>
                <Button android:id="@+id/resetButton" android:layout width="wrap content"
android:layout_height="wrap_content" android:text="Reset" android:layout_gravity="center"
android:layout_span="2" android:layout_marginTop="8dp"/>
            </TableRow>
        </TableLayout>
    </LinearLayout>
</ScrollView>
```

• DisplayDataActivity.java

```
package com.sampleapp.healthinsurance;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class DisplayDataActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_display_data);
        Intent intent = getIntent();
        String patientName = intent.getStringExtra("patientName");
        String address = intent.getStringExtra("address");
        int age = intent.getIntExtra("age", 0);
        // Find TextViews in the layout and set their text
        TextView displayPatientName = findViewById(R.id.displayPatientName);
        TextView displayAddress = findViewById(R.id.displayAddress);
        TextView displayAge = findViewById(R.id.displayAge);
        displayPatientName.setText("Patient Name: " + patientName);
        displayAddress.setText("Address: " + address);
        displayAge.setText("Age: " + age);
```

activity_display_data.xml

Output:



