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Ex. No. 1   Application using GUI components, Font and Colours

Generate a registration form for a hospital to register new patient details as below:

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

b. Name. Specify some font and colour. (use TextView, EditText-standard)

c. Address (use TextView, EditText-standard)

d. Age (TextView, EditText)

e. Date of Birth (DatePicker)

f. Gender (RadioButton)

g. Marital Status (Spinner)

h. Contact Number (EditText- inputType, phoneNumber)

i. Registration time (TimePicker)

j. Addiction (Smoking, Alcohol) (CheckBox)

k. Submit (Button) l. Reset (Button)

AndroidManifest.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.patientregistration">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.PatientRegistration">
        <activity android:name=".display"></activity>
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
```

```
</manifest>
```

MainActivity.java:

```java
package com.example.patientregistration;

import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
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;
import android.widget.TimePicker;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.app.AppCompatDelegate;

import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Locale;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);


AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE_NIGHT_NO);
        Button submit = findViewById(R.id.submit);
        submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                EditText name= findViewById(R.id.name);
                EditText address= findViewById(R.id.address);
                EditText age= findViewById(R.id.age);
                EditText dob= findViewById(R.id.dob);
                RadioGroup gender= findViewById(R.id.gender);
                Spinner marital= findViewById(R.id.marital);
                EditText phone= findViewById(R.id.phone);
                EditText time= findViewById(R.id.time);
                CheckBox smoking= findViewById(R.id.smoking);
                CheckBox alcohol= findViewById(R.id.alcohol);

                if(TextUtils.isEmpty(name.getText())) {
                    Toast.makeText(MainActivity.this, "Enter your name ",
Toast.LENGTH_SHORT).show();
                }
```

```java
                else if(TextUtils.isEmpty(address.getText())) {
                    Toast.makeText(MainActivity.this, "Enter Your Address
", Toast.LENGTH_SHORT).show();
                }
                else if(TextUtils.isEmpty(age.getText())) {
                    Toast.makeText(MainActivity.this, "Enter Your Age ",
Toast.LENGTH_SHORT).show();
                }

                else if(TextUtils.isEmpty(dob.getText())) {
                    Toast.makeText(MainActivity.this, "Enter Your Dob ",
Toast.LENGTH_SHORT).show();
                }

                else if(TextUtils.isEmpty(phone.getText())) {
                    Toast.makeText(MainActivity.this, "Enter Your Phone
Number ", Toast.LENGTH_SHORT).show();
                }

                else if(TextUtils.isEmpty(time.getText())) {
                    Toast.makeText(MainActivity.this, "Enter Time of
Registration ", Toast.LENGTH_SHORT).show();
                }

                else
if(!(((RadioButton)findViewById(R.id.male)).isChecked() ||
((RadioButton)findViewById(R.id.female)).isChecked())){
                    Toast.makeText(MainActivity.this, "Select Your Gender
", Toast.LENGTH_SHORT).show();
                }
                else {
                    String name_value=name.getText().toString();
                    String address_value=address.getText().toString();
                    String age_value=age.getText().toString();
                    String dob_value=dob.getText().toString();
                    String
gender_value=((RadioButton)findViewById(gender.getCheckedRadioButtonId())).
getText().toString();
                    String marital_value=
marital.getSelectedItem().toString();
                    String phone_value=phone.getText().toString();
                    String time_value=time.getText().toString();

                    String addiction_value;
                    if(smoking.isChecked() && alcohol.isChecked())
                        addiction_value="Smoking and Alcohol";
                    else if(smoking.isChecked())
                        addiction_value="Smoking";
                    else if(alcohol.isChecked())
                        addiction_value="Alcohol";
                    else
                        addiction_value="None";


                    Intent intent = new Intent(MainActivity.this,
display.class);

                    intent.putExtra("name", name_value);
                    intent.putExtra("address", address_value);
                    intent.putExtra("age", age_value);
                    intent.putExtra("dob", dob_value);
```

```java
                intent.putExtra("gender", gender_value);
                intent.putExtra("marital", marital_value);
                intent.putExtra("phone", phone_value);
                intent.putExtra("time", time_value);
                intent.putExtra("addiction", addiction_value);

                Toast.makeText(MainActivity.this, "Registered
Successfully ", Toast.LENGTH_SHORT).show();

                startActivity(intent);
            }


        }
    });

    Button reset = findViewById(R.id.reset);
    reset.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent intent = getIntent();
            finish();
            startActivity(intent);
        }
    });

    EditText dob = findViewById(R.id.dob);
    dob.setOnFocusChangeListener(new View.OnFocusChangeListener() {
        @Override
        public void onFocusChange(View v, boolean hasFocus) {
            if (hasFocus) {
                dob_select(dob);
            }
        }
    });
    dob.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            dob_select(dob);
        }
    });

    EditText time = findViewById(R.id.time);
    time.setOnFocusChangeListener(new View.OnFocusChangeListener() {
        @Override
        public void onFocusChange(View v, boolean hasFocus) {
            if (hasFocus) {
                time_select(time);
            }
        }
    });
    time.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            time_select(time);
        }
    });
}

public void dob_select(EditText dob) {
    Calendar c = Calendar.getInstance();
```

```java
        int day = c.get(Calendar.DAY_OF_MONTH);
        int month = c.get(Calendar.MONTH);
        int year = c.get(Calendar.YEAR);

        DatePickerDialog d = new DatePickerDialog(MainActivity.this, new
DatePickerDialog.OnDateSetListener() {
            @Override
            public void onDateSet(DatePicker view, int y, int m, int d) {
                c.set(y, m, d);
                SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy",
Locale.US);
                dob.setText(sdf.format(c.getTime()));
            }
        }, year, month, day);
        d.show();
    }

    public void time_select(EditText time) {
        Calendar c = Calendar.getInstance();
        int hour=c.get(Calendar.HOUR_OF_DAY);
        int min= c.get(Calendar.MINUTE);
        TimePickerDialog t = new TimePickerDialog(MainActivity.this, new
TimePickerDialog.OnTimeSetListener() {
            @Override
            public void onTimeSet(TimePicker view, int hourOfDay, int
minute) {
                String m;
                if(minute<10)
                {
                    m=Integer.toString(minute);
                    m="0"+m;
                }
                else
                {
                    m=Integer.toString(minute);
                }
                if(hourOfDay==0)
                {
time.setText(String.format(Integer.toString(hourOfDay+12)+":"+m+" AM"));
                }
                else if(hourOfDay<12)
                {
time.setText(String.format(Integer.toString(hourOfDay)+":"+m+" AM"));
                }
                else if(hourOfDay==12)
                {
time.setText(String.format(Integer.toString(hourOfDay)+":"+m+" PM"));
                }
                else
                {
                    time.setText(String.format(Integer.toString(hourOfDay-
12)+":"+m+" PM"));
                }

            }
        },hour,min, false);
        t.show();
```

```
            }
}
```

Display.java:

```java
package com.example.patientregistration;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.app.AppCompatDelegate;

public class display extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_display);


AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE_NIGHT_NO);
        TextView name= findViewById(R.id.name);
        TextView address= findViewById(R.id.address);
        TextView age= findViewById(R.id.age);
        TextView dob= findViewById(R.id.dob);
        TextView gender= findViewById(R.id.gender);
        TextView marital= findViewById(R.id.marital);
        TextView phone= findViewById(R.id.phone);
        TextView time= findViewById(R.id.time);
        TextView addiction= findViewById(R.id.addiction);

        name.setText(getIntent().getStringExtra("name"));
        address.setText(getIntent().getStringExtra("address"));
        age.setText(getIntent().getStringExtra("age"));
        dob.setText(getIntent().getStringExtra("dob"));
        gender.setText(getIntent().getStringExtra("gender"));
        marital.setText(getIntent().getStringExtra("marital"));
        phone.setText(getIntent().getStringExtra("phone"));
        time.setText(getIntent().getStringExtra("time"));
        addiction.setText(getIntent().getStringExtra("addiction"));

        Button back= findViewById(R.id.back);
        back.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = getIntent();
                finish();
            }
        });
    }
}
```

MainActivity.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/heading"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hospital Registration Form"
        android:textColor="#FF000000"
        android:textSize="25sp"
        android:typeface="sans"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.047"/>

    <TextView
        android:id="@+id/name_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Name"
        android:textColor="#FF000000"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.141"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.144" />

    <TextView
        android:id="@+id/address_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Address"
        android:textColor="#FF000000"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.147"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.235" />

    <TextView
        android:id="@+id/phone_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Phone No"
        android:textColor="#FF000000"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```xml
        app:layout_constraintHorizontal_bias="0.151"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.606" />

    <TextView
        android:id="@+id/marital_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Marital Status"
        android:textColor="#FF000000"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.13"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.53" />

    <TextView
        android:id="@+id/dob_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="DOB"
        android:textColor="#FF000000"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.151"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.377" />

    <TextView
        android:id="@+id/age_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Age"
        android:textColor="#FF000000"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.15"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.307" />

    <TextView
        android:id="@+id/addiction_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Addiction"
        android:textColor="#FF000000"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.15"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.771" />
```

```xml
<TextView
    android:id="@+id/gender_label"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Gender"
    android:textColor="#FF000000"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.144"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.46" />

<TextView
    android:id="@+id/time_label"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Reg Time"
    android:textColor="#FF000000"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.15"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.686" />

<Button
    android:id="@+id/reset"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Reset"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.283"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.894" />

<Button
    android:id="@+id/submit"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Submit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.75"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.894" />

<EditText
    android:id="@+id/name"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.676"
```

```xml
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.129"/>

    <EditText
        android:id="@+id/address"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:gravity="start|top"
        android:inputType="textMultiLine"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.676"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.225" />

    <EditText
        android:id="@+id/age"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.676"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.301" />

    <RadioGroup
        android:id="@+id/gender"
        android:layout_width="179dp"
        android:layout_height="52dp"
        android:orientation="horizontal"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.626"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.458">

        <RadioButton
            android:id="@+id/male"
            android:layout_width="93dp"
            android:layout_height="match_parent"
            android:text="Male" />

        <RadioButton
            android:id="@+id/female"
            android:layout_width="89dp"
            android:layout_height="match_parent"
            android:text="Female" />

    </RadioGroup>

    <Spinner
        android:id="@+id/marital"
        android:layout_width="161dp"
        android:layout_height="31dp"
```

```xml
        android:entries="@array/marital"
        android:gravity="center_horizontal"
        android:textAlignment="center"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.629"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.531" />

    <EditText
        android:id="@+id/phone"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.676"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.61" />

    <CheckBox
        android:id="@+id/smoking"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Smoking"

        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.479"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.786" />

    <CheckBox
        android:id="@+id/alcohol"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Alcohol"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.783"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.786" />

    <EditText
        android:id="@+id/dob"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="date"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.676"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.376" />
```

```
    <EditText
        android:id="@+id/time"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="time"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.676"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.695" />


</androidx.constraintlayout.widget.ConstraintLayout>
```

Display.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">

    <TextView
        android:id="@+id/details"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Details"
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="25sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.035" />

    <TextView
        android:id="@+id/name_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Name"
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.187"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.119" />

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

```xml
        android:text="Address"
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.192"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.189" />

    <TextView
        android:id="@+id/phone_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Phone No"
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.197"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.581" />

    <TextView
        android:id="@+id/addiction_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Addiction"
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.201"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.766" />

    <TextView
        android:id="@+id/age_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Age"
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.199"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.259" />

    <TextView
        android:id="@+id/marital_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Marital Status"
```

```xml
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.166"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/dob_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Dob"
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.199"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.337" />

    <TextView
        android:id="@+id/gender_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Gender"
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.188"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.424" />

    <TextView
        android:id="@+id/time_label"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Reg Time"
        android:textColor="#FF018786"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.196"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.675" />

    <TextView
        android:id="@+id/name"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#FF3700B3"
        android:textStyle="bold"
        android:textSize="20sp"
```

```xml
            app:layout_constraintBottom_toBottomOf="@+id/name_label"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.548"
            app:layout_constraintStart_toEndOf="@+id/name_label"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="1.0" />

    <TextView
        android:id="@+id/address"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#FF3700B3"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="@+id/address_label"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.521"
        app:layout_constraintStart_toEndOf="@+id/address_label"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0" />

    <TextView
        android:id="@+id/age"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#FF3700B3"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="@+id/age_label"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.557"
        app:layout_constraintStart_toEndOf="@+id/age_label"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0" />

    <TextView
        android:id="@+id/dob"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#FF3700B3"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="@+id/dob_label"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.557"
        app:layout_constraintStart_toEndOf="@+id/dob_label"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0" />

    <TextView
        android:id="@+id/gender"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#FF3700B3"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="@+id/gender_label"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.535"
        app:layout_constraintStart_toEndOf="@+id/gender_label"
        app:layout_constraintTop_toTopOf="parent"
```

```xml
            app:layout_constraintVertical_bias="1.0" />

    <TextView
        android:id="@+id/marital"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#FF3700B3"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="@+id/marital_label"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.46"
        app:layout_constraintStart_toEndOf="@+id/marital_label"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0" />

    <TextView
        android:id="@+id/phone"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#FF3700B3"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="@+id/phone_label"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.502"
        app:layout_constraintStart_toEndOf="@+id/phone_label"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0" />

    <TextView
        android:id="@+id/time"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#FF3700B3"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="@+id/time_label"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.506"
        app:layout_constraintStart_toEndOf="@+id/time_label"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0" />

    <TextView
        android:id="@+id/addiction"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#FF3700B3"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="@+id/addiction_label"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.502"
        app:layout_constraintStart_toEndOf="@+id/addiction_label"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0" />

    <Button
        android:id="@+id/back"
        android:layout_width="wrap_content"
```
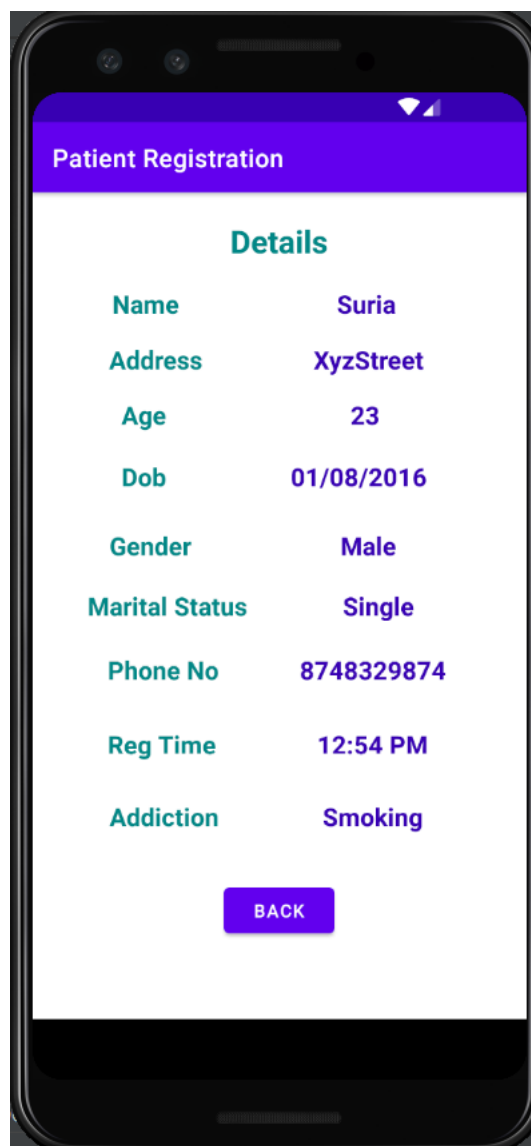
```
        android:layout_height="wrap_content"
        android:text="Back"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.898" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Strings.xml:

```
<resources>
    <string name="app_name">Patient Registration</string>
    <string-array name="marital">
        <item>Single</item>
        <item>Married</item>
    </string-array>
</resources>
```

OUTPUT:

Details

Name	**Suria**
Address	**XyzStreet**
Age	**23**
Dob	**01/08/2016**
Gender	**Male**
Marital Status	**Single**
Phone No	**8748329874**
Reg Time	**12:54 PM**
Addiction	**Smoking**

BACK