Program 5

20-09-22

Implement validation in various UI control

*Activitymain xml*

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout 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"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="REGISTRATION"  
 android:textColor="@color/cardview\_light\_background"  
 android:textSize="30dp"  
 />  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Name"  
 android:id="@+id/name"  
 />  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Mobile No"  
 android:id="@+id/mobile"  
 />  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Age"  
 android:id="@+id/age"  
 />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:hint="Gender"  
 android:id="@+id/gender"  
 />  
 <RadioGroup  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/RG"  
 >  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/radiobutton1"  
 android:text="Male"  
 />  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/radiobutton2"  
 android:text="Female"  
 />  
 </RadioGroup>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Submit"  
 android:id="@+id/button"  
 />  
 <CheckBox  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="I agree all terms and conditions"  
 android:id="@+id/checkbox"  
 />  
</LinearLayout>

Main activity java

package com.example.registration;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.EditText;  
import android.widget.RadioButton;  
import android.widget.RadioGroup;  
import android.widget.TextView;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 EditText name;  
 EditText mobile;  
 EditText age;  
 TextView gender;  
 RadioGroup RG;  
 RadioButton radiobutton1;  
 RadioButton radiobutton2;  
 CheckBox checkbox;  
 Button button;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 name = findViewById(R.id.*name*);  
 mobile = findViewById(R.id.*mobile*);  
 age = findViewById(R.id.*age*);  
 gender = findViewById(R.id.*gender*);  
 RG = findViewById(R.id.*RG*);  
 radiobutton1 = findViewById(R.id.*radiobutton1*);  
 radiobutton2 = findViewById(R.id.*radiobutton2*);  
 checkbox = findViewById(R.id.*checkbox*);  
 button = findViewById(R.id.*button*);  
 button.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if (error()) {  
 Intent i = new Intent(MainActivity.this, login.class);  
 startActivity(i);  
 }  
 }  
  
 });  
 }  
 private boolean error() {  
 if (name.getText().toString().length() == 0) {  
 Toast.*makeText*(getApplicationContext(), "please enter your name", Toast.*LENGTH\_LONG*).show();  
 return false;  
 } else if (mobile.getText().toString().length() == 0) {  
 Toast.*makeText*(getApplicationContext(), "please enter your mobile number", Toast.*LENGTH\_LONG*).show();  
 return false;  
 } else if (mobile.getText().toString().length() != 10) {  
 Toast.*makeText*(getApplicationContext(), "please enter 10 numbers", Toast.*LENGTH\_LONG*).show();  
 return false;  
 } else if (!radiobutton1.isChecked() && !radiobutton2.isChecked()) {  
 Toast.*makeText*(getApplicationContext(), "please choose radiobutton", Toast.*LENGTH\_LONG*).show();  
 return false;  
 } else if (!checkbox.isChecked()) {  
 Toast.*makeText*(getApplicationContext(), "please click on checkbox", Toast.*LENGTH\_LONG*).show();  
 return false;  
 } else {  
 return true;  
  
 }  
 }  
 }

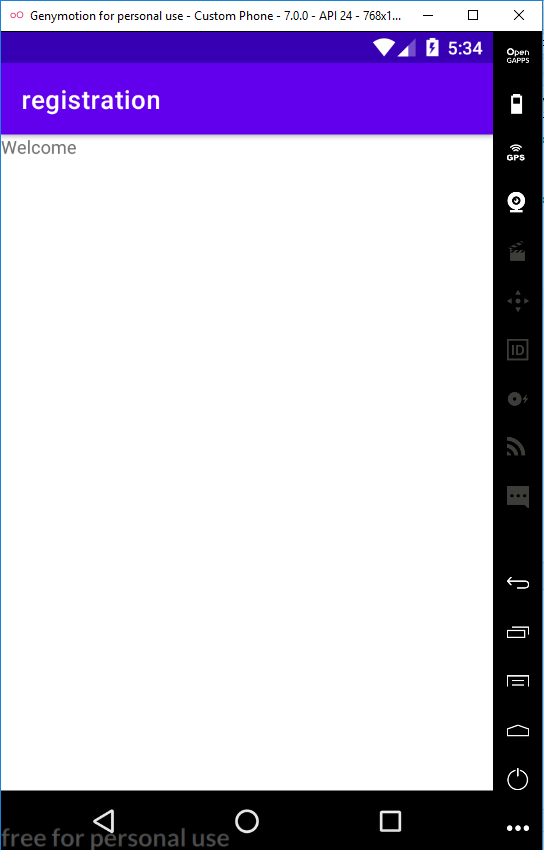
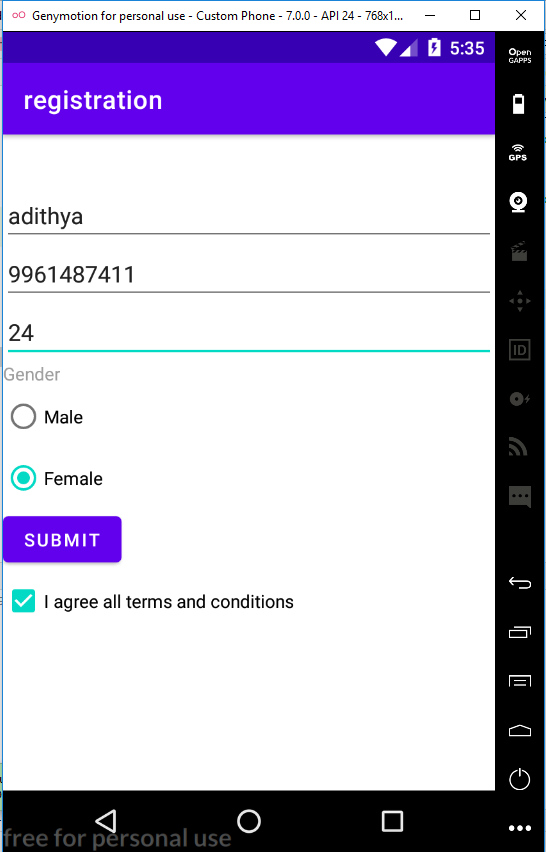
Activity-login xml

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout 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=".login">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="117dp"  
 android:layout\_height="123dp"  
 android:text="Welcome"  
 tools:layout\_editor\_absoluteX="92dp"  
 tools:layout\_editor\_absoluteY="173dp" />  
</LinearLayout>

Login.java

package com.example.registration;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class login extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_login*);  
 }  
}

**OUTPUT**

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