Praktikum 4 – User Input Control

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User Input Control

Nizar Radliya|

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Home ▾

☑ Family (Group)

☐ Friends (Group)

◯ SIM 1

◉ SIM 2

💾 SAVE

Nizar Radliya - 081387829340 - Family - SIM 2 - Home

☰   ☐   ‹

strings.xml

```xml
<resources>
    <string name="app_name">User Input Control</string>
    <string name="hint_name">Name</string>
    <string name="hint_phonenumber">Phone Number</string>

    <string-array name="labels_array">
        <item>Home</item>
        <item>Work</item>
        <item>Mobile</item>
        <item>Other</item>
    </string-array>

    <string name="label_family">Family (Group)</string>
    <string name="label_friends">Friends (Group)</string>
    <string name="label_sim1">SIM 1</string>
    <string name="label_sim2">SIM 2</string>
    <string name="show_button">Save</string>
    <string name="nothing_entered">Nothing entered.</string>
    <string name="nothing_selected">onNothingSelected</string>
</resources>
```
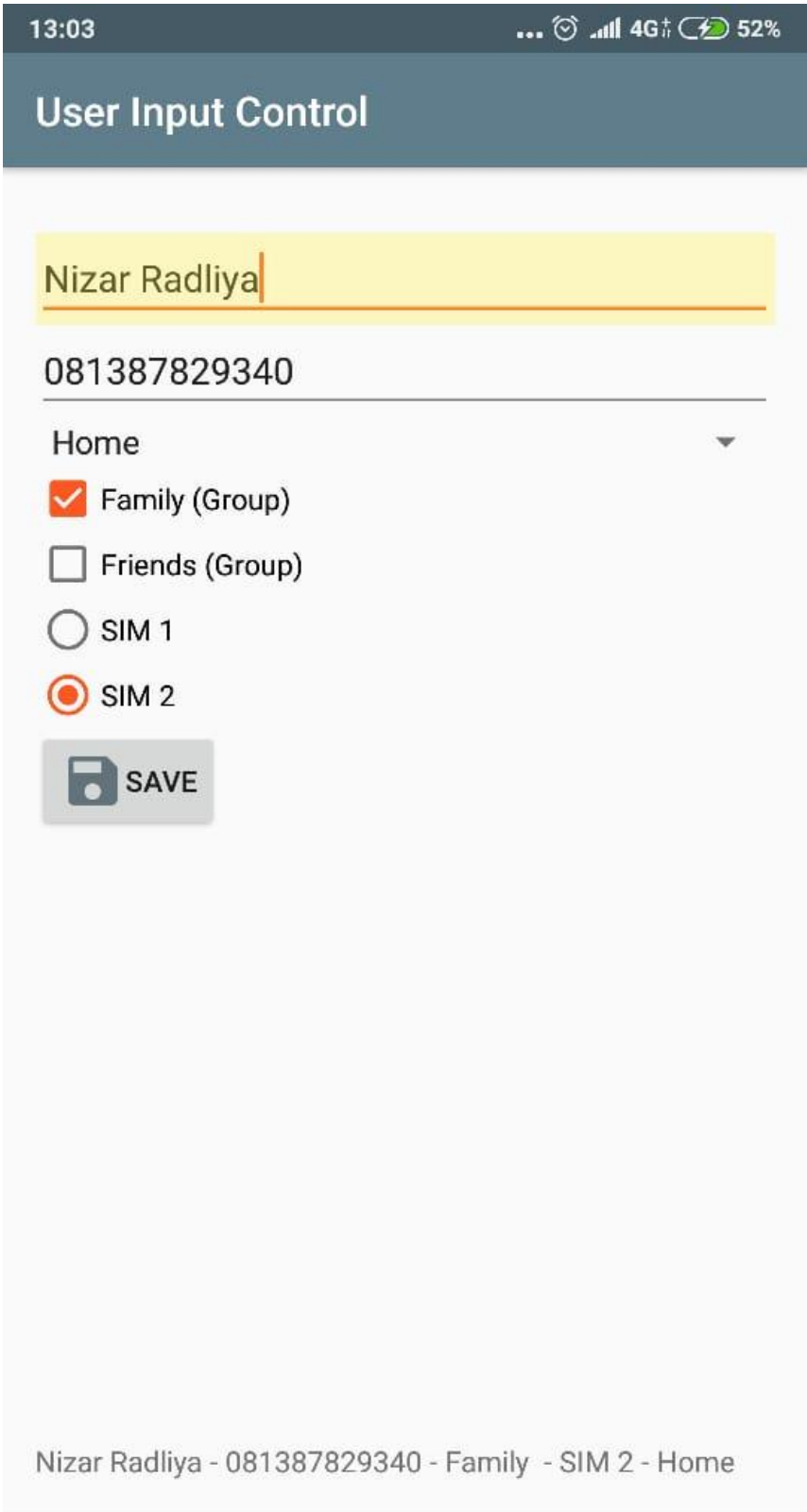
activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="@dimen/activity_vertical_margin"
        android:orientation="vertical"
        android:id="@+id/linearLayout1">

        <EditText
            android:id="@+id/editText_name"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:inputType="textPersonName"
            android:hint="@string/hint_name" />

        <EditText
            android:id="@+id/editText_phone"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:inputType="phone"
            android:hint="@string/hint_phonenumber" />

        <Spinner
            android:id="@+id/label_spinner"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
        </Spinner>

        <CheckBox
            android:id="@+id/cb_family"
```

```xml
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="@string/label_family" />

        <CheckBox
            android:id="@+id/cb_friends"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="@string/label_friends" />
        <RadioGroup
            android:id="@+id/rgSim"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">
            <RadioButton
                android:id="@+id/rg1"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="@string/label_sim1" />

            <RadioButton
                android:id="@+id/rg2"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="@string/label_sim2" />
        </RadioGroup>

        <Button
            style="@style/ButtonGeneral"
            android:id="@+id/button_main"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:onClick="showText"
            android:text="@string/show_button"
            android:drawableLeft="@drawable/ic_button_save"/>

    </LinearLayout>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_alignParentBottom="true">

        <TextView
            android:id="@+id/text_phonelabel"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/nothing_entered"/>

    </LinearLayout>

</RelativeLayout>

</LinearLayout>
```

MainActivity.java

```java
package com.example.nizar.userinputcontrol;

import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.EditText;
import android.widget.CheckBox;
import android.widget.RadioGroup;
```

```java
import android.widget.Spinner;
import android.widget.TextView;

/**
 * This app is a copy of KeyboardSamples that
 * adds a spinner to the layout to appear right next to the phone number field.
 * The spinner lets the user choose the type of phone number:
 * Home, Work, Mobile, and Other.
 */
public class MainActivity extends AppCompatActivity implements
AdapterView.OnItemSelectedListener {
    // Define TAG for logging.
    private static final String TAG = MainActivity.class.getSimpleName();
    // Define mSpinnerLabel for the label (the spinner item that the user chooses).
    private String mSpinnerLabel = "";

    /**
     * Set the content view, create the spinner, and create the array adapter for
the spinner.
     * @param savedInstanceState    Saved instance.
     */
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // Create the spinner.
        Spinner spinner = (Spinner) findViewById(R.id.label_spinner);
        if (spinner != null) {
            spinner.setOnItemSelectedListener(this);
        }

        // Create ArrayAdapter using the string array and default spinner layout.
        ArrayAdapter<CharSequence> adapter;
        adapter = ArrayAdapter.createFromResource(this,
                R.array.labels_array, android.R.layout.simple_spinner_item);

        // Specify the layout to use when the list of choices appears.
        adapter.setDropDownViewResource
                (android.R.layout.simple_spinner_dropdown_item);

        // Apply the adapter to the spinner.
        if (spinner != null) {
            spinner.setAdapter(adapter);
        }

    }

    /**
     * Retrieves the text and spinner item and shows them in text_phonelabel.
     * @param view  The view containing editText_phone.
     */
    public void showText(View view) {
        EditText etName    = (EditText) findViewById(R.id.editText_name);
        EditText etPhone   = (EditText) findViewById(R.id.editText_phone);
        CheckBox cbFamily  = (CheckBox)findViewById(R.id.cb_family);
        CheckBox cbFriends = (CheckBox)findViewById(R.id.cb_friends);
        RadioGroup rgSim   = (RadioGroup)findViewById(R.id.rgSim);

        if ((etName != null) && (etPhone != null)) {
            StringBuffer group = new StringBuffer();
            if (cbFamily.isChecked()) { group.append("Family "); }
            if (cbFriends.isChecked()) { group.append("Friends"); }

            String sim = new String();
            switch (rgSim.getCheckedRadioButtonId()) {
                case R.id.rg1:
                    sim = "SIM 1";
```

```java
                break;
            case R.id.rg2:
                sim = "SIM 2";
                break;
        }

        // Assign to showString both the entered string and mSpinnerLabel.
        String showString = (etName.getText().toString() + " - " +
                etPhone.getText().toString() + " - " +
                group.toString() + " - " +
                sim + " - " +
                mSpinnerLabel);
        // Assign to phoneNumberResult the view for text_phonelabel to prepare
to show it.
        TextView phoneNumberResult = (TextView)
findViewById(R.id.text_phonelabel);
            // Show the showString in the phoneNumberResult.
            if (phoneNumberResult != null) phoneNumberResult.setText(showString);
        }
    }

    /**
     * Retrieves the selected item in the spinner using getItemAtPosition,
     * and assigns it to mSpinnerLabel.
     * @param adapterView    The adapter for the spinner, where the selection
occurred.
     * @param view           The view within the adapterView that was clicked.
     * @param pos            The position of the view in the adapter.
     * @param id             The row id of the item that is selected (not used
here).
     */
    @Override
    public void onItemSelected(AdapterView<?> adapterView, View view, int pos, long
id) {
        mSpinnerLabel = adapterView.getItemAtPosition(pos).toString();
        //showText(view);
    }

    /**
     * Logs the fact that nothing was selected in the spinner.
     * @param adapterView The adapter for the spinner, where the selection should
have occurred.
     */
    @Override
    public void onNothingSelected(AdapterView<?> adapterView) {
        Log.i(TAG, getString(R.string.nothing_selected));
    }
}
```