

## Tutorial 2: A Simple Form.

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    >
    <LinearLayout
        android:orientation="horizontal"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        >
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Name:"
            />
        <EditText android:id="@+id/name"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            />
        </LinearLayout>
        <LinearLayout
            android:orientation="horizontal"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            >
            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Address:"
                />
            <EditText android:id="@+id/addr"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                />
            </LinearLayout>
            <Button android:id="@+id/save"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="Save"
                />
        </LinearLayout>
```

AndroidManifest.xml:

```
<supports-screens android:largeScreens="true"
    android:normalScreens="true"
    android:smallScreens="false" />
```

**Class Model:**

```

public class Restaurant {
    private String name="";
    private String address="";
    public String getName() {
        return(name);
    }
    public void setName(String name) {
        this.name=name;
    }
    public String getAddress() {
        return(address);
    }
}

```

**Class LunchList:**

```

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

    //B2: Tao doi tuong listener
    ButtonSaveListener buttonSaveListener = new ButtonSaveListener();
    //B3: Tim doi tuong nguon
    Button buttonSave = (Button)findViewById(R.id.save);
    //B4: Dang ki doi tuong nghe voi doi tuong nguon
    buttonSave.setOnClickListener(buttonSaveListener);
}

// B1: tao lop doi tuong listener
class ButtonSaveListener implements View.OnClickListener {
    @Override
    public void onClick(View v) {
        //Toast.makeText(LunchList.this, "Button Save Click", Toast.LENGTH_LONG).show();
        EditText name=(EditText)findViewById(R.id.name);
        EditText address=(EditText)findViewById(R.id.addr);

        restaurant.setName(name.getText().toString());
        restaurant.setAddress(address.getText().toString());
    }
}

```

**Tutorial 3: A Fancier Form.**

```

<?xml version="1.0" encoding="utf-8"?>
<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"

```

```

android:stretchColumns="1"
>
<TableRow>
<TextView android:text="Name:" />
<EditText android:id="@+id/name" />
</TableRow>
<TableRow>
<TextView android:text="Address:" />
<EditText android:id="@+id/addr" />
</TableRow>
<TableRow>
<TextView android:text="Type:" />
<RadioGroup android:id="@+id/types">
<RadioButton android:id="@+id/take_out"
android:text="Take-Out"
android:checked="true"
/>
<RadioButton android:id="@+id/sit_down"
android:text="Sit-Down"
/>
<RadioButton android:id="@+id/delivery"
android:text="Delivery"
/>
</RadioGroup>
</TableRow>
<Button android:id="@+id/save"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Save"
/>
</TableLayout>

```

### **LunchList.java:**

```

RadioGroup types=(RadioGroup)findViewById(R.id.types);
switch (types.getCheckedRadioButtonId()) {
case R.id.sit_down:
r.setType("sit_down");
break;
case R.id.take_out:
r.setType("take_out");
break;
}
case R.id.delivery:
r.setType("delivery");

```

### **Tutorial 4: Adding a List.**

```

public class LunchList extends Activity {
    List<Restaurant> model=new ArrayList<Restaurant>();
    ArrayAdapter<Restaurant> adapter=null;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        Button save=(Button)findViewById(R.id.save);
        save.setOnClickListener(onSave);
        ListView list=(ListView)findViewById(R.id.restaurants);
        adapter=new ArrayAdapter<Restaurant>(this,
            android.R.layout.simple_list_item_1,
            model);
        list.setAdapter(adapter);
    }
    private View.OnClickListener onSave=new View.OnClickListener() {
        public void onClick(View v) {
            Restaurant r=new Restaurant();
            EditText name=(EditText)findViewById(R.id.name);
            EditText address=(EditText)findViewById(R.id.addr);
            r.setName(name.getText().toString());
            r.setAddress(address.getText().toString());
            RadioGroup types=(RadioGroup)findViewById(R.id.types);
            switch (types.getCheckedRadioButtonId()) {
                case R.id.sit_down:
                    r.setType("sit_down");
                    break;
                case R.id.take_out:
                    r.setType("take_out");
                    break;
                case R.id.delivery:
                    r.setType("delivery");
                    break;
            }
            adapter.add(r);
        };
    }
}

```

## **Tutorial 5: Making A More Elaborate List.**

### **Row.xml**

```

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:padding="4dip"
    >
    <ImageView android:id="@+id/icon"
        android:layout_width="wrap_content"

```

```

android:layout_height="match_parent"
android:layout_alignParentTop="true"
android:layout_alignParentBottom="true"
android:layout_marginRight="4dip"
/>
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="vertical"
>
<TextView android:id="@+id/title"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_weight="1"
android:gravity="center_vertical"
android:textStyle="bold"
android:maxLines="1"
android:ellipsize="end"
/>
<TextView android:id="@+id/address"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_weight="1"
android:gravity="center_vertical"
android:maxLines="1"
android:ellipsize="end"
/>
</LinearLayout>
</LinearLayout>

```

## B2

```

class RestaurantAdapter extends ArrayAdapter<Restaurant> {
    RestaurantAdapter() {
        super(LunchList.this,
            android.R.layout.simple_list_item_1,
            model);
    }
}

```

## B3

```

public View getView(int position, View convertView,
    ViewGroup parent)

```

```

    Restaurant r=model.get(position);

```

```

    ((TextView)row.findViewById(R.id.title)).setText(r.getName());
    ((TextView)row.findViewById(R.id.address)).setText(r.getAddress());
    ImageView icon=(ImageView)row.findViewById(R.id.icon);
    if (r.getType().equals("sit_down")) {

```

```
icon.setImageResource(R.drawable.ball_red);
}
else if (r.getType().equals("take_out")) {
icon.setImageResource(R.drawable.ball_yellow);
}
else {
icon.setImageResource(R.drawable.ball_green);
}

/////
RestaurantHolder(View row) {
name=(TextView)row.findViewById(R.id.title);
address=(TextView)row.findViewById(R.id.address);
icon=(ImageView)row.findViewById(R.id.icon);
}
```

### **Tutorial 7: Menu and Messages.**

```
<EditText android:id="@+id/notes"
android:singleLine="false"
android:gravity="top"
android:lines="2"
android:scrollHorizontally="false"
android:maxLines="2"
android:maxLength="200sp"
/>
```