

Android user interface design

Chapter – 3

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User interface screen element

- ◉ List of basic UI
- ◉ 1)TextView
- ◉ This control is used to display text to the user.
- ◉ Write the XML
- ◉ <TextView
- ◉ android:id="@+id/textView1"
- ◉ android:layout_width="wrap_content"
- ◉ android:layout_height="wrap_content"
- ◉ android:text="Large Text" />

- 2) EditText
- EditText is a predefined subclass of textview that includes rich editing capabilities.
- Write the XML
- <EditText
- android:id="@+id/editText1"
- android:layout_width="match_parent"
- android:layout_height="wrap_content"
- android:layout_marginBottom="20dp"
- android:layout_marginLeft="10dp"
- android:layout_marginRight="10dp"
- android:layout_marginTop="20dp"
- android:inputType="number" >
- </EditText>

- 3) AutoCompleteTextView
- The autoCompleteTextView is a view that is similar to EditText, except that it shows a list of completion suggestion automatically while the user is typing.
- Write the XML
- ```
<AutoCompleteTextView
 android:id="@+id/autoCompleteTextView1"
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:text="AutoCompleteTextView" />
```

- 4) Button
- A push button that can be pressed, or clicked by the user to perform an action.
- Write the XML
- `<Button`
- `android:id="@+id/button1"`
- `android:layout_width="wrap_content"`
- `android:layout_height="wrap_content"`
- `android:text="Button" />`

- 5)CheckBox
- You should use checkboxes when presenting users with a group of selectable option.
- Write the XML
- `<CheckBox`
- `android:id="@+id/checkBox1"`
- `android:layout_width="wrap_content"`
- `android:layout_height="wrap_content"`
- `android:text="CheckBox" />`

- 6)RadioButton
- The RadioButton has two states either checked or unchecked.
- Write the XML
- `<RadioButton`
- `android:id="@+id/radioButton1"`
- `android:layout_width="wrap_content"`
- `android:layout_height="wrap_content"`
- `android:text="RadioButton" />`

- 7)Spinner

- A drop down list that allows users to select one value from a set.

- Write the XML

- <Spinner

- `android:id="@+id/spinner1"`

- `android:layout_width="match_parent"`

- `android:layout_height="wrap_content"`

`/>`



- 8)TimePicker

- The TimePicker view enables users to select a time of the day.

- Write the XML

- <TimePicker

- android:id="@+id/timePicker1"

- android:layout\_width="wrap\_content"

- android:layout\_height="wrap\_content"

/>

- 9) DatePicker
- The DatePicker view enables users to select a date of the day.
- Write the XML
- `<DatePicker`
- `android:id="@+id/datePicker1"`
- `android:layout_width="wrap_content"`
- `android:layout_height="wrap_content"`
- `/>`

# Designing User Interface with Layouts

- 1) Linear Layout
- A layout that organizes its children into a single horizontal or vertical row.
- Write the XML
- <LinearLayout
  - android:layout\_width="match\_parent"
  - android:layout\_height="wrap\_content"
  - android:layout\_margin="10dp"
  - android:orientation="vertical" >
- <TextView
  - android:id="@+id/textView1"
  - android:layout\_width="wrap\_content"
  - android:layout\_height="wrap\_content"
  - android:text="Large Text" />
- <TextView
  - android:id="@+id/textView2"
  - android:layout\_width="wrap\_content"
  - android:layout\_height="wrap\_content"
  - android:text="Large Text" />
- </LinearLayout>

- ◉ 2)Relative Layout
- ◉ Enables you to specify the location of child objects relative to each other.
- ◉ Write the XML
- ◉ <RelativeLayout
- ◉     android:layout\_width="match\_parent"
- ◉     android:layout\_height="match\_parent"
- ◉     android:orientation="vertical" >
- ◉     <Button
- ◉         android:id="@+id/button1"
- ◉         android:layout\_width="wrap\_content"
- ◉         android:layout\_height="wrap\_content"
- ◉         android:layout\_alignParentLeft="true"
- ◉         android:layout\_alignParentTop="true"
- ◉         android:layout\_marginLeft="62dp"
- ◉         android:layout\_marginTop="45dp"
- ◉         android:text="Button" />
- ◉     <Button
- ◉         android:id="@+id/button2"
- ◉         android:layout\_width="wrap\_content"
- ◉         android:layout\_height="wrap\_content"
- ◉         android:layout\_below="@+id/button1"
- ◉         android:layout\_centerHorizontal="true"
- ◉         android:layout\_marginTop="130dp"
- ◉         android:text="Button" />
- ◉ </RelativeLayout>

