Lab Manual

Lab (2): Layouts



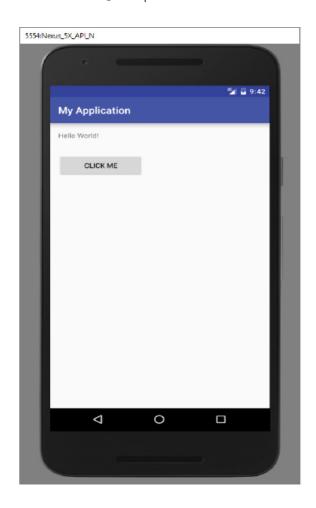
Visual Programming for Smart Devices lab

# Objectives:

## create an android application using different layouts

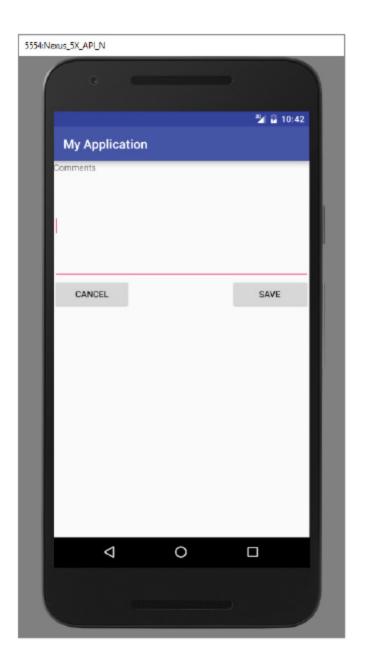
## Example 1: An Application using Linear Layout in .xml.

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >
<TextView
    android:layout_width="100dp"
    android:layout_height="wrap_content"
    android:text="@string/hello" />
<Button
    android:layout_width="160dp"
    android:layout_height="wrap_content"
    android:text="Button"
    android:text="Button"
    android:onClick="onClick" />
</LinearLayout>
```



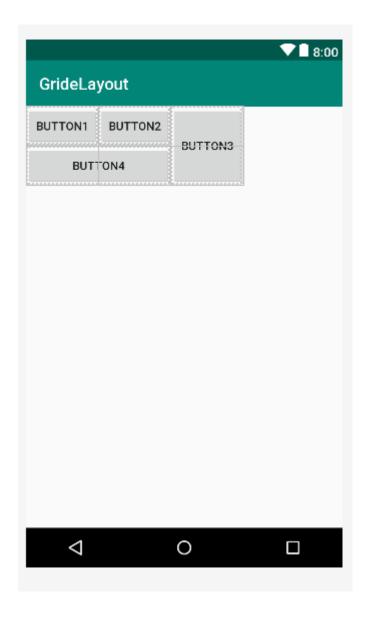
#### Example 2: an application using Relative Layout in .xml.

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
   android:id="@+id/RLavout"
   android:layout width="fill parent"
   android:layout height="fill parent"
   xmlns:android="http://schemas.android.com/apk/res/android" >
   <TextView
       android:id="@+id/lblComments"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="Comments"
       android:layout alignParentTop="true"
       android:layout alignParentStart="true" />
    <EditText
         android:id="@+id/txtComments"
         android:layout width="fill parent"
         android:layout height="170dp"
         android:textSize="18sp"
         android:layout alignStart="@+id/lblComments"
         android:layout below="@+id/lblComments"
         android:layout centerHorizontal="true" />
    <Button
        android:id="@+id/btnSave"
         android:layout width="125dp"
         android:layout height="wrap content"
         android:text="Save"
         android:layout below="@+id/txtComments"
         android:layout alignEnd="@+id/txtComments" />
    <Button
         android:id="@+id/btnCancel"
         android:layout width="124dp"
         android:layout height="wrap content"
         android:text="Cancel"
         android:layout below="@+id/txtComments"
         android:layout alignStart="@+id/txtComments" />
</RelativeLayout>
```



### Example 3: an application using Grid Layout in .xml.

```
<?xml version="1.0" encoding="utf-8"?>
<GridLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:id="@+id/GridLayout1"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:columnCount="3"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/button3"
        android:layout column="0"
        android:layout_gravity="left|top"
        android:layout row="0"
        android:text="Button1" />
    <Button
        android:id="@+id/button1"
        android:layout column="1"
        android:layout_gravity="left|top"
        android:layout row="0"
        android:text="Button2" />
    <Button
        android:id="@+id/button2"
        android:layout column="2"
        android:layout_gravity="fill_vertical"
        android:layout row="0"
        android:layout_rowSpan="2"
        android:text="Button3" />
    <Button
        android:id="@+id/button4"
        android:layout column="0"
        android:layout_columnSpan="2"
        android:layout_gravity="fill_horizontal"
        android:layout_row="1"
        android:text="Button4" />
</GridLayout>
```



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