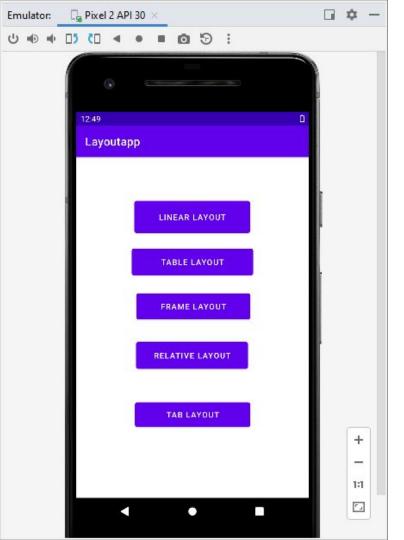
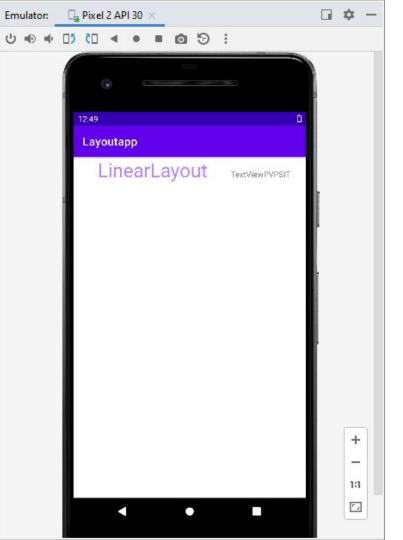
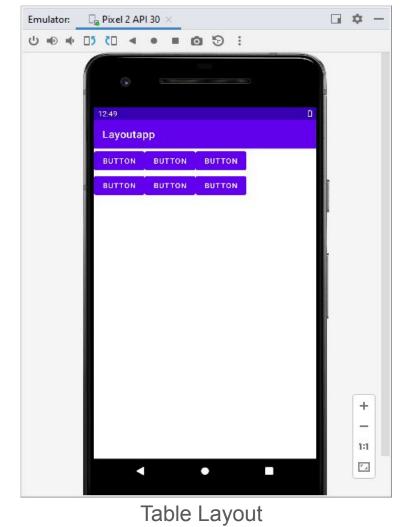
# Build mobile application using different layouts Experiment - 2



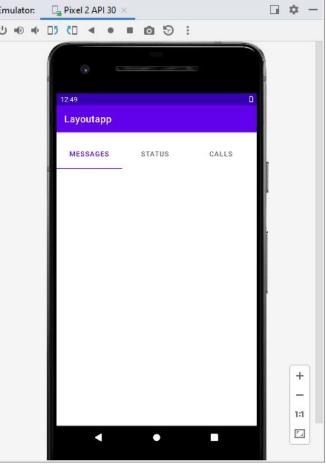






Frame Layout

Emulator: 🛛 🖓 Pixel 2 API 30 🗡	🖬 🌣 —	Emulator:
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**Relative Layout** 

## MainActivity

```
public class MainActivity extends AppCompatActivity {
   @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    public void onclick_btn_ll(View v)
        Intent i=new Intent( packageContext: this,LinearLayoutActivity.class);
        this.startActivity(i);
    public void onclick_btn_tl(View v)
        Intent i=new Intent( packageContext: this,CalActivity.class);
        this.startActivity(i);
   public void onclick_btn_fl(View v)
         Intent i=new Intent( packageContext: this, FrameActivity.class);
        this.startActivity(i);
    public void onclick_btn_rl(View v)
        Intent i=new Intent( packageContext: this, RelativeActivity.class);
        this.startActivity(i);
    public void onclick_btn_tabl(View v)
        Intent i=new Intent( packageContext: this, TabActivity.class);
        this.startActivity(i);
   } }
```

### Linear Layout

<?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" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:orientation="horizontal"> <TextView android:id="@+id/textView" android:layout\_width="279dp" android:layout\_height="68dp" android:text="LinearLayout" android:textAlignment="center" android:textColor="@color/purple\_200" android:textSize="34sp" /> <TextView android:id="@+id/textView4" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="TextView" /> <TextView android:id="@+id/textView3" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="PVPSIT" /> </LinearLayout>

### **Table Layout**

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout
        android:layout_width="302dp" xmlns:android="http://schemas.android.com/apk/res/android"
        android:layout_height="306dp" xmlns:app="http://schemas.android.com/apk/res-auto"
        app:layout_constraintBottom_toBottomOf="parent" xmlns:tools="http://schemas.android.com/tools"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" tools:context=".CalActivity">
        <TableRow
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <Button...>
            <Button...>
            <Button...>
        </TableRow>
        <TableRow
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <Button...>
            <Button...>
            <Button...>
        </TableRow>
    </TableLayout>
```

# FrameLayout

- Android FrameLayout is a subclass of ViewGroup that displays a single view on the screen by blocking a specific area.
- Views added to a FrameLayout are always **anchored to the top left of the layout**.
- Multiple views can be added to a FrameLayout, but each will be stacked on top of the previous one.
- FrameLayout should generally be used to hold a **single child view**.

### Frame Layout

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout 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="409dp"
    android:layout_height="729dp"
    tools:layout_editor_absoluteX="1dp"
    tools:layout_editor_absoluteY="1dp">
```

<ImageButton

```
android:id="@+id/imageButton"
android:layout_width="match_parent"
android:layout_height="match_parent"
app:srcCompat="@drawable/img" />
```

```
<TextView
```

```
android:id="@+id/textView2"
android:layout_width="match_parent"
android:layout_height="98dp"
android:text="PVPSIT"
android:textColor="@color/purple_200"
android:textDirection="firstStrong"
android:textSize="24sp" />
```

</FrameLayout>

#### <?xml version="1.0" encoding="utf-8"?>

### <RelativeLayout 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="409dp"
android:layout\_height="729dp"
tools:layout\_editor\_absoluteX="1dp"
tools:layout\_editor\_absoluteY="1dp">

#### <Button

android:id="@+id/button" android:layout\_width="161dp" android:layout\_height="87dp" android:layout\_alignParentStart="true" android:layout\_alignParentTop="true" android:layout\_alignParentEnd="true" android:layout\_alignParentBottom="true" android:layout\_centerInParent="true" android:layout\_marginStart="111dp" android:layout\_marginTop="311dp" android:layout\_marginEnd="137dp" android:layout\_marginBottom="331dp" android:text="Button" />

# **Relative Layout**

#### <TextView

android:id="@+id/textView8"
android:layout\_width="wrap\_content"
android:layout\_height="46dp"
android:layout\_alignParentStart="true"
android:layout\_alignParentLeft="true"
android:text="TextView" />

#### <EditText

android:id="@+id/editTextTextPersonName" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_alignParentTop="true" android:layout\_alignParentRight="true" android:layout\_toEndOf="@id/textView8" android:ems="10" android:inputType="textPersonName" android:text="Name" />

#### <TextView

android:id="@+id/textView9"
android:layout\_width="wrap\_content"
android:layout\_height="45dp"
android:layout\_below="@id/textView8"
android:text="TextView" />

### **Relative Layout**



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### <EditText

android:id="@+id/editTextTextPersonName2" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_below="@id/editTextTextPersonName" android:layout\_toEndOf="@id/textView9" android:ems="10" android:inputType="textPersonName" android:inputType="textPersonName"

|RelativeLayout>

### Tab Layout <?xml version="1.0" encoding="utf-8"?> <com.google.android.material.tabs.TabLayout xmlns:android="http://schemas.android.com/apk/res/android" android:id="@+id/tabLayout" xmlns:app="http://schemas.android.com/apk/res-auto" android:layout\_width="405dp" xmlns:tools="http://schemas.android.com/tools" android:layout\_height="63dp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.023" tools:layout\_editor\_absoluteX="5dp" tools:context=".TabActivity"> <com.google.android.material.tabs.TabItem android:id="@+id/tabitem\_messages" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Messages" /> <com.google.android.material.tabs.TabItem android:id="@+id/tabitem\_status" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Status" /> <com.google.android.material.tabs.TabItem android:id="@+id/tabitem\_calls" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Calls" />

</com.google.android.material.tabs.TabLayout>