

Mobile Application Development

Practical 4: Layout

CODE:

linearactivity.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.317"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.043"
        android:layout_width="125dp"
        android:layout_height="48dp"
        android:backgroundTint="@android:color/holo_blue_light"
        android:fontFamily="@font/allura"
        android:text="Login"
        android:textColor="@android:color/holo_red_light"
        android:textColorHighlight="@color/design_default_color_error"
        android:textSize="34sp"
        android:layout_margin="20dp"/>

    <EditText
        android:id="@+id/user"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:backgroundTint="@color/design_default_color_error"
        android:ems="10"
        android:fontFamily="@font/allura"
        android:hint="Enter Name"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout_constraintHorizontal_bias="0.298"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView"
app:layout_constraintVertical_bias="0.103"
android:layout_margin="20dp"/>
```

<EditText

```
android:id="@+id/pass"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:backgroundTint="@color/design_default_color_error"
android:ems="10"
android:fontFamily="@font/allura"
android:hint="Password"
android:inputType="textPassword"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.298"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/user"
app:layout_constraintVertical_bias="0.103"
android:layout_margin="20dp"/>
```

<CheckBox

```
android:id="@+id/checkBox"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/allura"
android:text="Show Password"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.215"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/pass"
app:layout_constraintVertical_bias="0.092"
android:layout_margin="20dp"/>
```

<Button

```
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:backgroundTint="?android:attr/colorActivatedHighlight"
android:fontFamily="@font/allura"
android:text="Show Details"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.392"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/checkBox"
app:layout_constraintVertical_bias="0.158"
android:layout_margin="20dp"/>
```

<TextView

```
android:id="@+id/output"
android:layout_width="334dp"
android:layout_height="121dp"
android:fontFamily="@font/allura"
```

```

    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.413"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/button"
    app:layout_constraintVertical_bias="0.458"
    android:layout_margin="20dp"/>

```

```
</LinearLayout>
```

Relativeactivity.xml

```

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

    <TextView
        android:id="@+id/textView"
        android:layout_width="125dp"
        android:layout_height="48dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginStart="20dp"
        android:layout_marginTop="20dp"
        android:layout_marginEnd="266dp"
        android:layout_marginBottom="663dp"
        android:backgroundTint="@android:color/holo_blue_light"
        android:fontFamily="@font/allura"
        android:text="Login"
        android:textColor="@android:color/holo_red_light"
        android:textColorHighlight="@color/design_default_color_error"
        android:textSize="34sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.317"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.043" />

    <EditText
        android:id="@+id/user"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"

```

```

android:layout_alignParentBottom="true"
android:layout_marginStart="20dp"
android:layout_marginTop="99dp"
android:layout_marginEnd="167dp"
android:layout_marginBottom="588dp"
android:backgroundTint="@color/design_default_color_error"
android:ems="10"
android:fontFamily="@font/allura"
android:hint="Enter Name"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.298"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView"
app:layout_constraintVertical_bias="0.103" />

```

<EditText

```

android:id="@+id/pass"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginStart="22dp"
android:layout_marginTop="179dp"
android:layout_marginEnd="165dp"
android:layout_marginBottom="509dp"
android:backgroundTint="@color/design_default_color_error"
android:ems="10"
android:fontFamily="@font/allura"
android:hint="Password"
android:inputType="textPassword"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.298"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/user"
app:layout_constraintVertical_bias="0.103" />

```

<CheckBox

```

android:id="@+id/checkbox"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginStart="24dp"
android:layout_marginTop="255dp"
android:layout_marginEnd="280dp"
android:layout_marginBottom="428dp"
android:fontFamily="@font/allura"
android:text="Show Password"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"

```

```

app:layout_constraintHorizontal_bias="0.215"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/pass"
app:layout_constraintVertical_bias="0.092" />

```

<Button

```

    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="24dp"
    android:layout_marginTop="362dp"
    android:layout_marginEnd="233dp"
    android:layout_marginBottom="321dp"
    android:backgroundTint="?android:attr/colorActivatedHighlight"
    android:fontFamily="@font/allura"
    android:text="Show Details"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.392"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/checkbox"
    app:layout_constraintVertical_bias="0.158" />

```

<TextView

```

    android:id="@+id/output"
    android:layout_width="334dp"
    android:layout_height="121dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="27dp"
    android:layout_marginTop="467dp"
    android:layout_marginEnd="50dp"
    android:layout_marginBottom="142dp"
    android:fontFamily="@font/allura"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.413"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/button"
    app:layout_constraintVertical_bias="0.458" />

```

</RelativeLayout>

Tableactivity.xml

```

<?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"
    xmlns:app="http://schemas.android.com/apk/res-auto">

    <TableRow
        android:layout_width="fill_parent"
        android:layout_height="fill_parent">

        <TextView
            android:id="@+id/textView"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.317"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.043"
            android:layout_width="125dp"
            android:layout_height="48dp"
            android:backgroundTint="@android:color/holo_blue_light"
            android:fontFamily="@font/allura"
            android:text="Login"
            android:textColor="@android:color/holo_red_light"
            android:textColorHighlight="@color/design_default_color_error"
            android:textSize="34sp"
            android:layout_margin="20dp"/>
        </TableRow>

        <TableRow
            android:layout_width="fill_parent"
            android:layout_height="fill_parent">

            <EditText
                android:id="@+id/user"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:backgroundTint="@color/design_default_color_error"
                android:ems="10"
                android:fontFamily="@font/allura"
                android:hint="Enter Name"
                android:inputType="textPersonName"
                app:layout_constraintBottom_toBottomOf="parent"
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintHorizontal_bias="0.298"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toBottomOf="@+id/textView"
                app:layout_constraintVertical_bias="0.103"
                android:layout_margin="20dp"/>
            </TableRow>

            <TableRow
                android:layout_width="fill_parent"
                android:layout_height="fill_parent">
                <EditText
                    android:id="@+id/pass"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:backgroundTint="@color/design_default_color_error"
        android:ems="10"
        android:fontFamily="@font/allura"
        android:hint="Password"
        android:inputType="textPassword"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.298"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/user"
        app:layout_constraintVertical_bias="0.103"
        android:layout_margin="20dp"/>
    </TableRow>

    <TableRow
        android:layout_width="fill_parent"
        android:layout_height="fill_parent">
        <CheckBox
            android:id="@+id/checkBox"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:fontFamily="@font/allura"
            android:text="Show Password"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.215"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/pass"
            app:layout_constraintVertical_bias="0.092"
            android:layout_margin="20dp"/>

    </TableRow>

    <TableRow
        android:layout_width="fill_parent"
        android:layout_height="fill_parent">
        <Button
            android:id="@+id/button"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:backgroundTint="?android:attr/colorActivatedHighlight"
            android:fontFamily="@font/allura"
            android:text="Show Details"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.392"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/checkBox"
            app:layout_constraintVertical_bias="0.158"
            android:layout_margin="20dp"/>
    </TableRow>

    <TableRow
        android:layout_width="fill_parent"
        android:layout_height="fill_parent">

```

```

<TextView
    android:id="@+id/output"
    android:layout_width="334dp"
    android:layout_height="121dp"
    android:fontFamily="@font/allura"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.413"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/button"
    app:layout_constraintVertical_bias="0.458"
    android:layout_margin="20dp"/>
</TableRow>

</TableLayout>

```

Output

