



EXAMPLE LAYOUT

Khoa Công nghệ Thông tin
Đại học Sư phạm Kỹ thuật TP.HCM



- Thiết kế activity này với ConstraintLayout
- Hình ảnh được lấy từ khóa học
- Hướng dẫn:
 - ▣ Tạo empty activity: IntroActivity.java và activity_intro.xml
 - ▣ Mở activity_intro.xml lên và thiết kế các đối tượng: ImageView, TextView, Drawable.



```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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="match_parent"
    android:layout_height="match_parent"
    tools:context=".activity.IntroActivity">
```

Đoạn chứa các control:
 ImageView, TextView, Drawable,
 ConstraintLayout

```
</androidx.constraintlayout.widget.ConstraintLayout>
```



ImageView hình background

```
<ImageView
    android:id="@+id/imageViewBg"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:scaleType="fitXY"
    android:src="@drawable/background_intro"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.012" />
```



ImageView hình logo

```
<ImageView
```

```
    android:id="@+id/imageViewLogo"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:src="@drawable/logo"
    app:layout_constraintBottom_toBottomOf="@+id/imageViewBg"
    app:layout_constraintEnd_toEndOf="@+id/imageViewBg"
    app:layout_constraintStart_toStartOf="@+id/imageViewBg"
    app:layout_constraintTop_toTopOf="@+id/imageViewBg" />
```




TextView chữ Food.Dr

```
<TextView
    android:id="@+id/textViewFood"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Food.Dr"
    android:textColor="#3d33a8"
    android:textSize="68sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/imageViewLogo"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/imageViewBg" />
```



TextView chữ Thức ăn nhanh

```
<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Thức ăn nhanh"
    android:textStyle="bold"
    android:textColor="#3d33a8"
    android:textSize="30sp"
    app:layout_constraintBottom_toBottomOf="@+id/imageViewBg"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imageViewLogo" />
```



Layout con dùng ConstraintLayout cho phần bắt đầu

```
<androidx.constraintlayout.widget.ConstraintLayout
    android:id="@+id/startBtn"
    android:layout_width="0dp"
    android:layout_height="50dp"
    android:layout_marginStart="32dp"
    android:layout_marginEnd="32dp"
    android:background="@drawable/orange_button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imageViewBg">
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```




Drawable ConstrainLayout cho phần màu nền layout

- Tạo file Drawable Resources File trong thư mục Drawable
- Đặt tên file: orange_button.xml và code nội dung sau

```
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
    <item>
        <shape android:shape="rectangle">
            <solid android:color="#ff5e00"/>
            <corners android:radius="50dp"/>
        </shape>
    </item>
</selector>
```



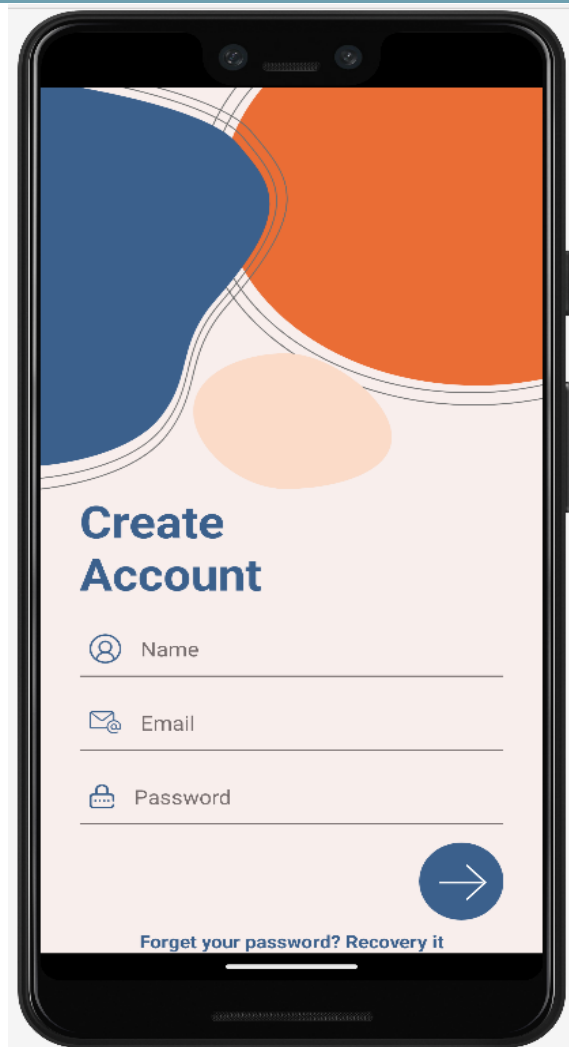
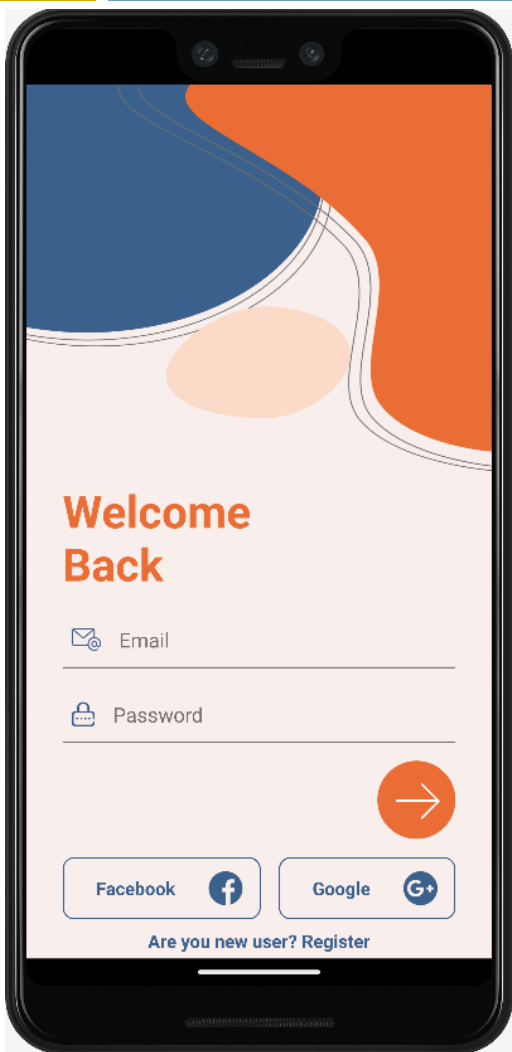
Gọi Drawable trong ConstrainLayout background



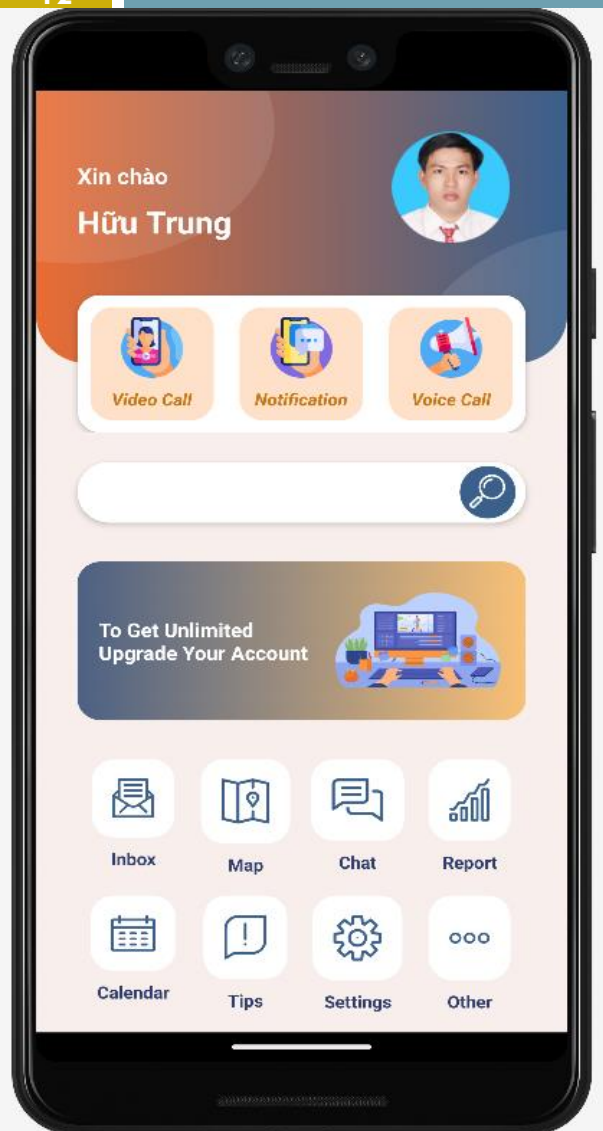
```
android:background="@drawable/orange_button"
```

TextView chứa chữ Bắt đầu

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Bắt đầu"
    android:textColor="#FFFFFF"
    android:textSize="25sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.448"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.516" />
```



- Thiết kế giao diện cho 02 activity_login và activity_sigup
- Hình ảnh được lấy trên khóa học



- Thiết kế giao diện cho activity_main. Hình ảnh được lấy trên khóa học

```
public class ImageConverter {
    public static Bitmap getRoundedCornerBitmap(Bitmap bitmap, int pixels) {
        Bitmap output = Bitmap.createBitmap(bitmap.getWidth(), bitmap.getHeight(),
            Bitmap.Config.ARGB_8888);
        Canvas canvas = new Canvas(output);

        final int color = 0xff424242;
        final Paint paint = new Paint();
        final Rect rect = new Rect(0, 0, bitmap.getWidth(), bitmap.getHeight());
        final RectF rectF = new RectF(rect);
        final float roundPx = pixels;

        paint.setAntiAlias(true);
        canvas.drawARGB(0, 0, 0, 0);
        paint.setColor(color);
        canvas.drawRoundRect(rectF, roundPx, roundPx, paint);

        paint.setXfermode(new PorterDuffXfermode(PorterDuff.Mode.SRC_IN));
        canvas.drawBitmap(bitmap, rect, rect, paint);

        return output;
    }
}
```

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