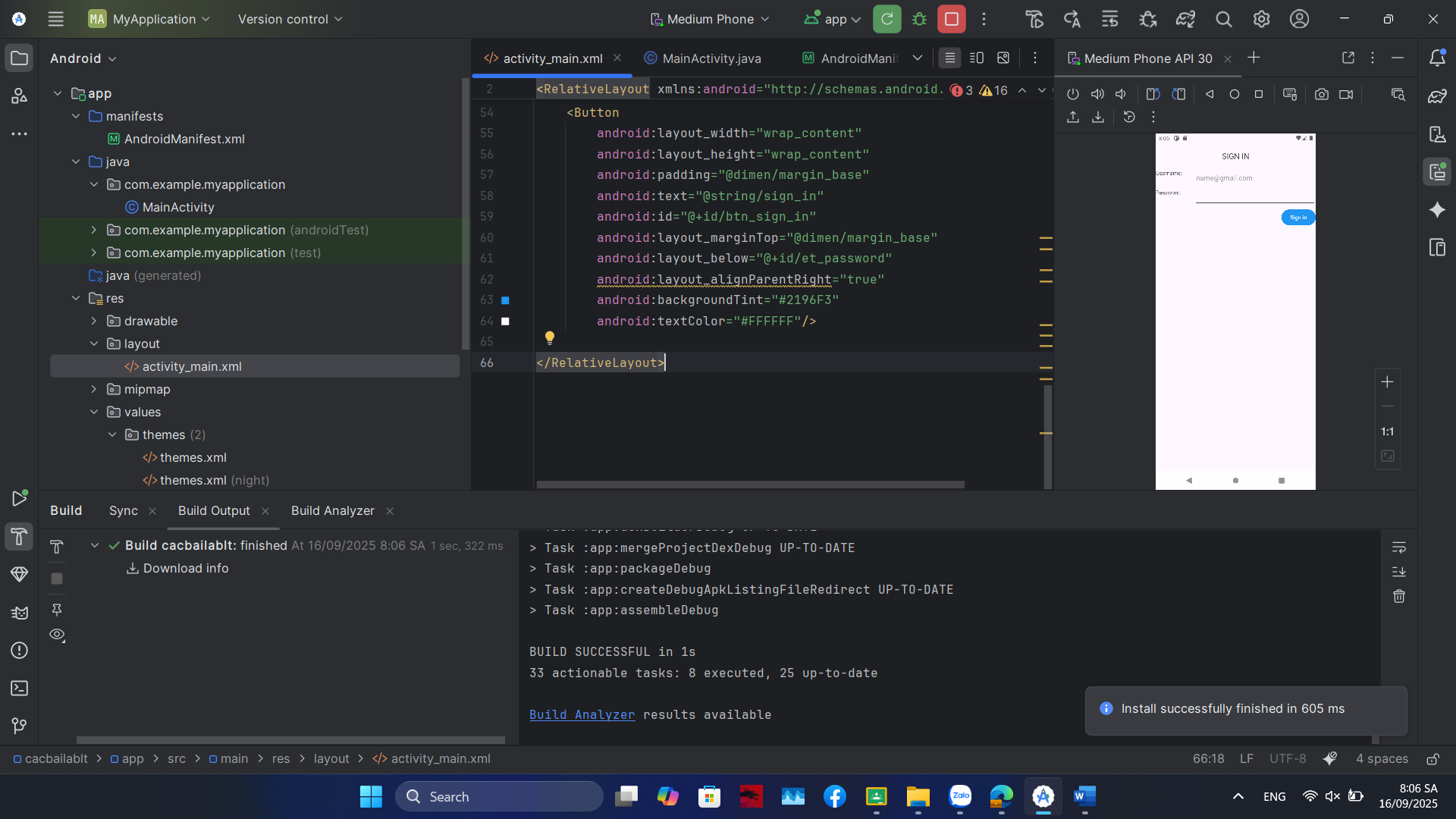
Lab 3

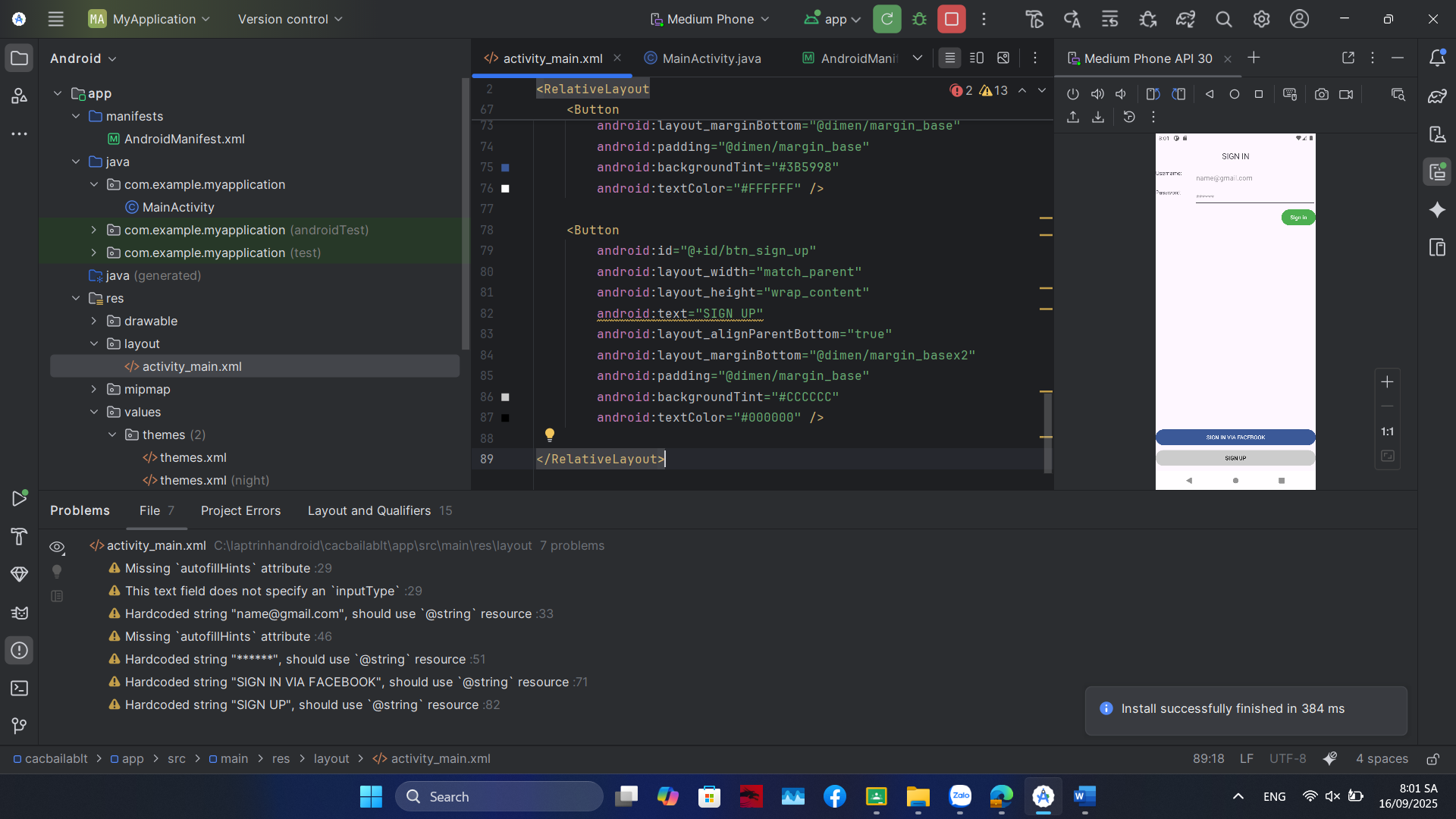
**RelativeLayout**



Code:

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:id="@+id/main"  
 android:layout\_height="match\_parent"  
 android:paddingLeft="16dp"  
 android:paddingRight="16dp" >  
  
 <TextView  
 android:id="@+id/tv\_sign\_in"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/sign\_in"  
 android:textAllCaps="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="@dimen/margin\_basex4"  
 android:textSize="@dimen/text\_large" />  
  
 <TextView  
 android:layout\_marginTop="@dimen/margin\_basex4"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:text="@string/username"  
 android:id="@+id/tv\_user\_name"  
 android:layout\_below="@+id/tv\_sign\_in"  
 android:layout\_alignParentLeft="true" />  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/et\_username"  
 android:hint="name@gmail.com"  
 android:layout\_alignTop="@+id/tv\_user\_name"  
 android:layout\_toRightOf="@+id/tv\_user\_name" />  
  
 <TextView  
 android:layout\_marginTop="@dimen/margin\_base"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:text="@string/password"  
 android:id="@+id/tv\_password"  
 android:hint="\*\*\*\*\*\*"  
 android:layout\_below="@+id/et\_username"  
 android:layout\_alignParentLeft="true" />  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/et\_password"  
 android:password="true"  
 android:layout\_alignTop="@+id/tv\_password"  
 android:layout\_toRightOf="@+id/tv\_password" />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="@dimen/margin\_base"  
 android:text="@string/sign\_in"  
 android:id="@+id/btn\_sign\_in"  
 android:layout\_marginTop="@dimen/margin\_base"  
 android:layout\_below="@+id/et\_password"  
 android:layout\_alignParentRight="true"  
 android:backgroundTint="#2196F3"  
 android:textColor="#FFFFFF"/>  
  
</RelativeLayout>

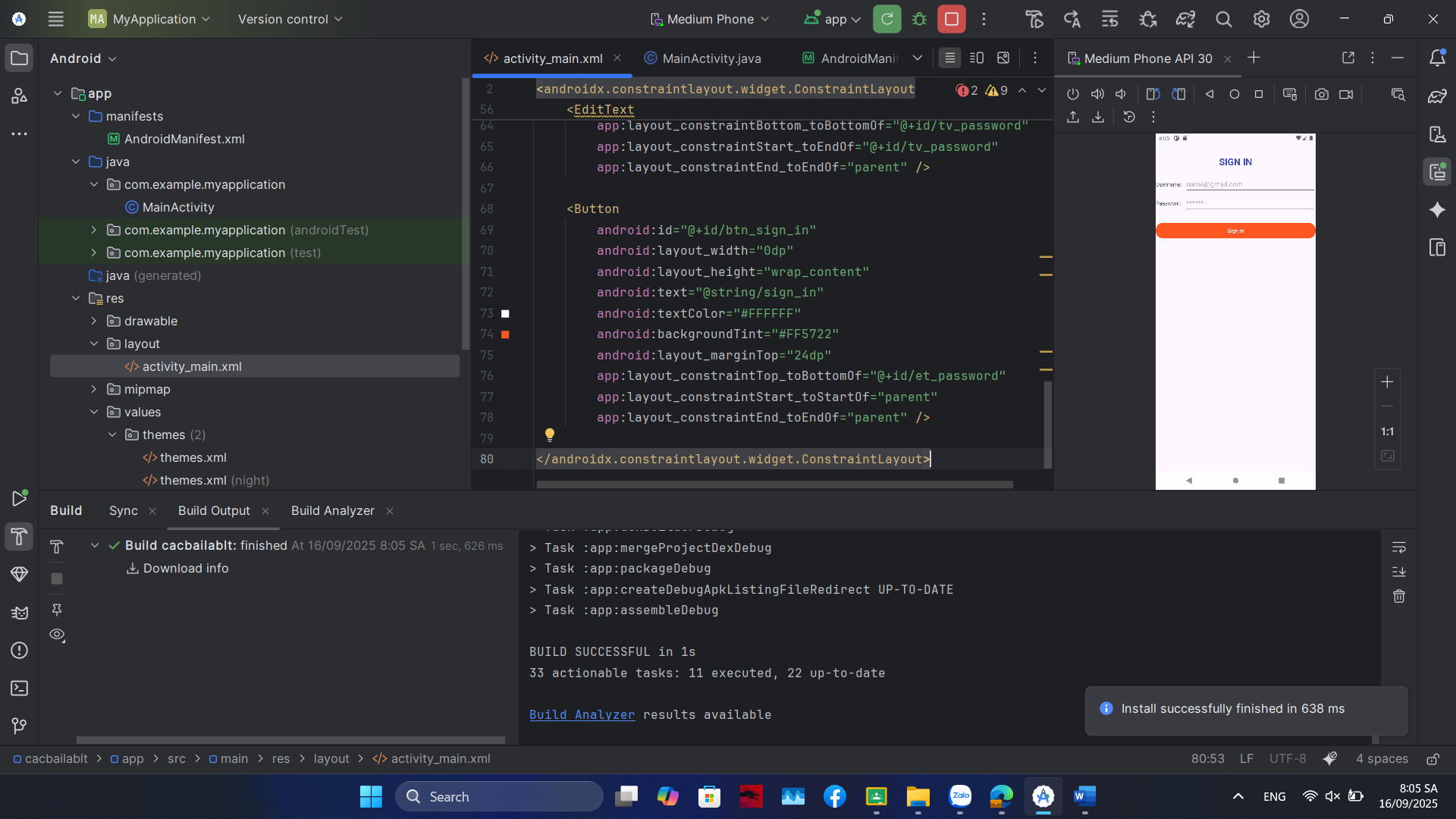
Bản đầy đủ



Code:

<?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"  
 android:paddingLeft="16dp"  
 android:paddingRight="16dp"  
 android:id="@+id/main">  
  
 <TextView  
 android:id="@+id/tv\_sign\_in"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/sign\_in"  
 android:textAllCaps="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="@dimen/margin\_basex4"  
 android:textSize="@dimen/text\_large" />  
  
 <TextView  
 android:id="@+id/tv\_user\_name"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:text="@string/username"  
 android:layout\_below="@+id/tv\_sign\_in"  
 android:layout\_alignParentStart="true"  
 android:layout\_marginTop="@dimen/margin\_basex4" />  
  
 <EditText  
 android:id="@+id/et\_username"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="name@gmail.com"  
 android:layout\_alignTop="@+id/tv\_user\_name"  
 android:layout\_toEndOf="@+id/tv\_user\_name" />  
  
 <TextView  
 android:id="@+id/tv\_password"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:text="@string/password"  
 android:layout\_below="@+id/et\_username"  
 android:layout\_alignParentStart="true"  
 android:layout\_marginTop="@dimen/margin\_base" />  
  
 <EditText  
 android:id="@+id/et\_password"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="textPassword"  
 android:hint="\*\*\*\*\*\*"  
 android:layout\_alignTop="@+id/tv\_password"  
 android:layout\_toEndOf="@+id/tv\_password" />  
  
 <Button  
 android:id="@+id/btn\_sign\_in"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/sign\_in"  
 android:layout\_below="@+id/et\_password"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginTop="@dimen/margin\_base"  
 android:padding="@dimen/margin\_base"  
 android:backgroundTint="#4CAF50"  
 android:textColor="#FFFFFF" />  
  
 <Button  
 android:id="@+id/btn\_sign\_in\_facebook"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="SIGN IN VIA FACEBOOK"  
 android:layout\_above="@+id/btn\_sign\_up"  
 android:layout\_marginBottom="@dimen/margin\_base"  
 android:padding="@dimen/margin\_base"  
 android:backgroundTint="#3B5998"  
 android:textColor="#FFFFFF" />  
  
 <Button  
 android:id="@+id/btn\_sign\_up"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="SIGN UP"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginBottom="@dimen/margin\_basex2"  
 android:padding="@dimen/margin\_base"  
 android:backgroundTint="#CCCCCC"  
 android:textColor="#000000" />  
  
</RelativeLayout>

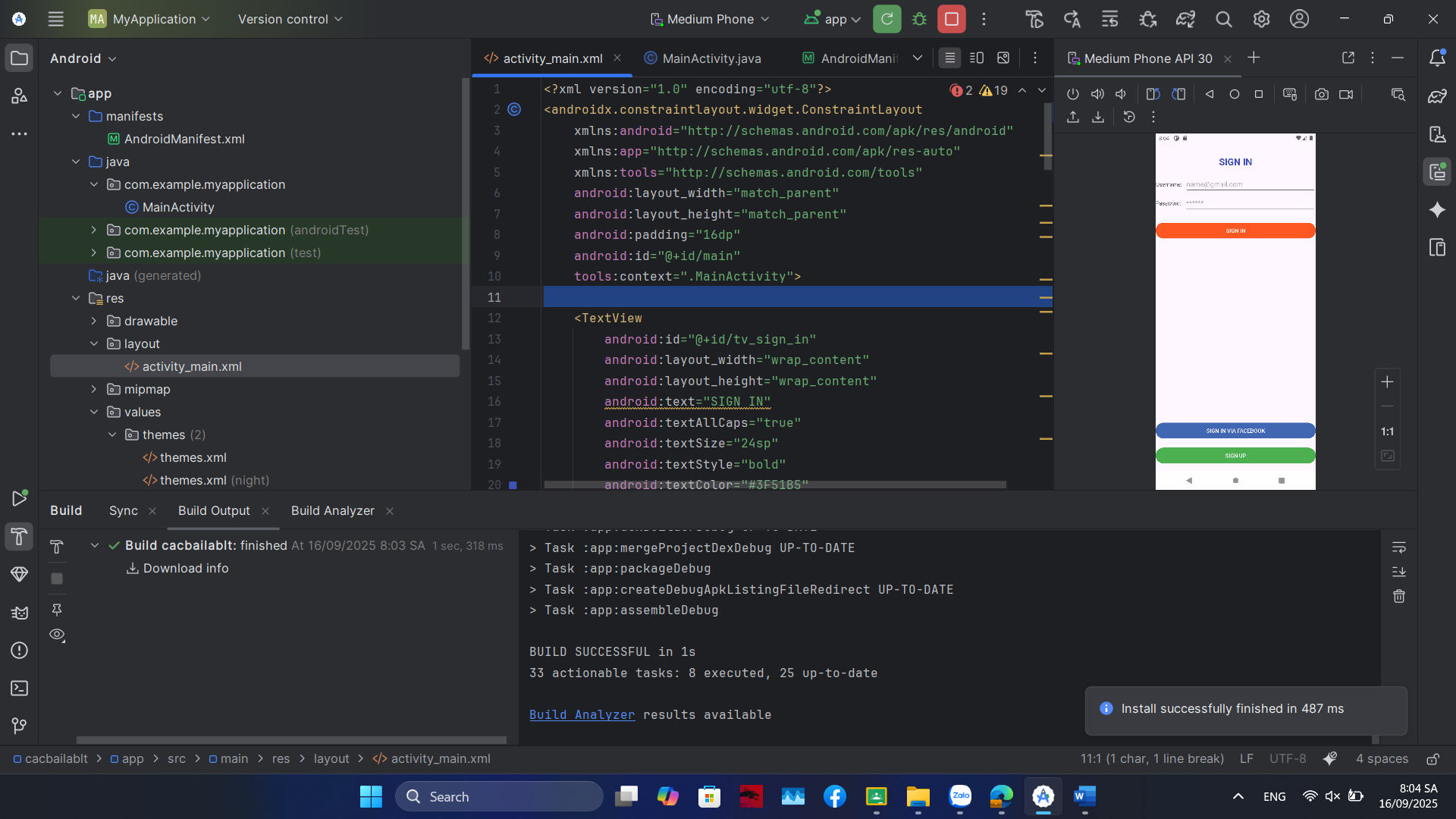
2**ContraintLayout**



Code:

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/main"  
 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"  
 android:padding="16dp"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/tv\_sign\_in"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/sign\_in"  
 android:textAllCaps="true"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 android:textColor="#3F51B5"  
 android:layout\_marginTop="32dp"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <TextView  
 android:id="@+id/tv\_user\_name"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/username"  
 android:layout\_marginTop="32dp"  
 app:layout\_constraintTop\_toBottomOf="@+id/tv\_sign\_in"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
 <EditText  
 android:id="@+id/et\_username"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:hint="name@gmail.com"  
 android:inputType="textEmailAddress"  
 android:layout\_marginStart="8dp"  
 app:layout\_constraintTop\_toTopOf="@+id/tv\_user\_name"  
 app:layout\_constraintBottom\_toBottomOf="@+id/tv\_user\_name"  
 app:layout\_constraintStart\_toEndOf="@+id/tv\_user\_name"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <TextView  
 android:id="@+id/tv\_password"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/password"  
 android:layout\_marginTop="16dp"  
 app:layout\_constraintTop\_toBottomOf="@+id/et\_username"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
 <EditText  
 android:id="@+id/et\_password"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:hint="\*\*\*\*\*\*"  
 android:inputType="textPassword"  
 android:layout\_marginStart="8dp"  
 app:layout\_constraintTop\_toTopOf="@+id/tv\_password"  
 app:layout\_constraintBottom\_toBottomOf="@+id/tv\_password"  
 app:layout\_constraintStart\_toEndOf="@+id/tv\_password"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <Button  
 android:id="@+id/btn\_sign\_in"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="@string/sign\_in"  
 android:textColor="#FFFFFF"  
 android:backgroundTint="#FF5722"  
 android:layout\_marginTop="24dp"  
 app:layout\_constraintTop\_toBottomOf="@+id/et\_password"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Bản đầy đủ



Code:

<?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"  
 android:padding="16dp"  
 android:id="@+id/main"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/tv\_sign\_in"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="SIGN IN"  
 android:textAllCaps="true"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 android:textColor="#3F51B5"  
 android:layout\_marginTop="32dp"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <TextView  
 android:id="@+id/tv\_user\_name"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Username:"  
 android:layout\_marginTop="32dp"  
 app:layout\_constraintTop\_toBottomOf="@+id/tv\_sign\_in"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
 <EditText  
 android:id="@+id/et\_username"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:hint="name@gmail.com"  
 android:inputType="textEmailAddress"  
 android:layout\_marginStart="8dp"  
 app:layout\_constraintTop\_toTopOf="@+id/tv\_user\_name"  
 app:layout\_constraintBottom\_toBottomOf="@+id/tv\_user\_name"  
 app:layout\_constraintStart\_toEndOf="@+id/tv\_user\_name"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <TextView  
 android:id="@+id/tv\_password"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Password:"  
 android:layout\_marginTop="16dp"  
 app:layout\_constraintTop\_toBottomOf="@+id/et\_username"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
 <EditText  
 android:id="@+id/et\_password"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:hint="\*\*\*\*\*\*"  
 android:inputType="textPassword"  
 android:layout\_marginStart="8dp"  
 app:layout\_constraintTop\_toTopOf="@+id/tv\_password"  
 app:layout\_constraintBottom\_toBottomOf="@+id/tv\_password"  
 app:layout\_constraintStart\_toEndOf="@+id/tv\_password"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <Button  
 android:id="@+id/btn\_sign\_in"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="SIGN IN"  
 android:textColor="#FFFFFF"  
 android:backgroundTint="#FF5722"  
 android:layout\_marginTop="24dp"  
 app:layout\_constraintTop\_toBottomOf="@+id/et\_password"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <Button  
 android:id="@+id/btn\_sign\_in\_facebook"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="SIGN IN VIA FACEBOOK"  
 android:textColor="#FFFFFF"  
 android:backgroundTint="#4267B2"  
 android:layout\_marginBottom="16dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/btn\_sign\_up"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <Button  
 android:id="@+id/btn\_sign\_up"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="SIGN UP"  
 android:textColor="#FFFFFF"  
 android:backgroundTint="#4CAF50"  
 android:layout\_marginBottom="16dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>