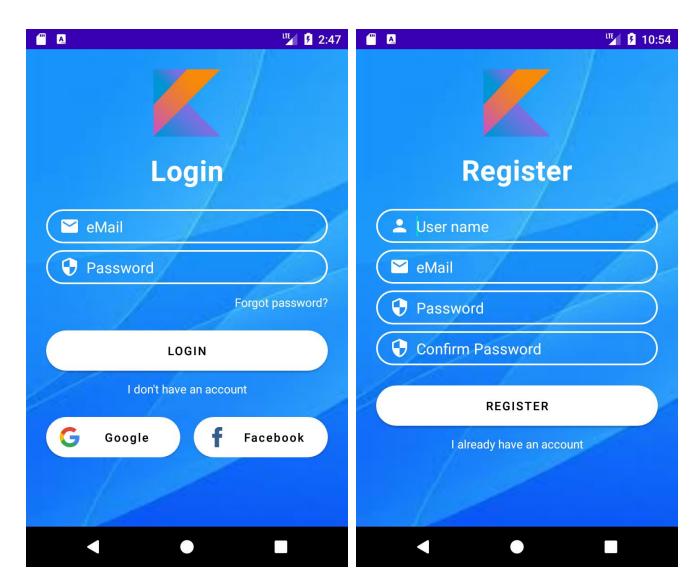


Resources

Lab

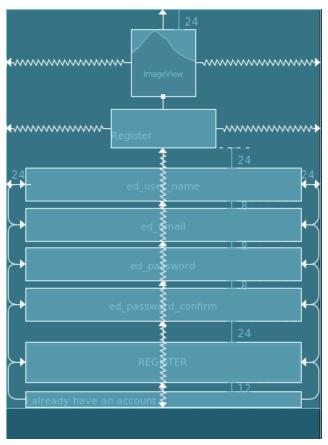
Realize a Login Activity

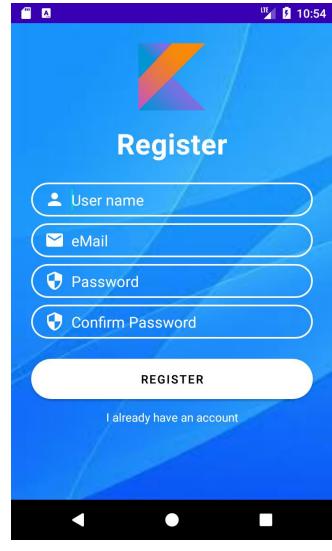
- Using the following resources:
 - Drawable
 - Vector Asset
 - Strings
 - Layout
 - Colors
 - Styles
 - Theme
 - Mipmap
 - Image Asset



Define Layout and colors

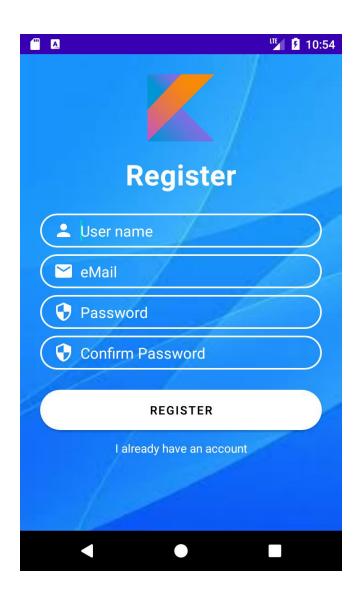
```
activity_main.xml ×
                  🚜 colors.xml 🗡
                                 # themes.xml ×
                                                # AndroidM
       <?xml version="1.0" encoding="utf-8"?>
       <resources>
           <color name="colorPrimaryDark">#3262C4</color>
           <color name="colorBlack">#000000</color>
           <color name="colorWhite">#FFFFFF</color>
  П
           <color name="colorRed">#E91E63</color>
           <color name="purple_200">#FFBB86FC</color>
           <color name="purple_500">#FF6200EE</color>
           <color name="purple_700">#FF3700B3</color>
           <color name="teal_200">#FF03DAC5</color>
           <color name="teal_700">#FF018786</color>
          <color name="black">#FF000000</color>
           <color name="white">#FFFFFFF</color>
  П
       </resources>
```





Define a style

```
🗸 activity_main.xml
                               🚜 themes.xml
      <resources xmlns:tools="http://schemas.android.com/tools">
          <!-- Base application theme. -->
          <style name="Theme.LoginApp" parent="Theme.MaterialComponents.DayNight.DarkActionBar"...>
          <style name="Theme.LoginApp.NoActionBar" parent="Theme.MaterialComponents.DayNight.NoActionBar">
             <item name="colorPrimary">@color/colorWhite</item>
 <item name="colorPrimaryVariant">@color/purple_700</item>
             <item name="colorOnPrimary">@color/colorBlack</item>
             <item name="colorSecondary">@color/teal_200</item>
  <item name="colorSecondaryVariant">@color/teal_700</item>
             <item name="colorOnSecondary">@color/black</item>
             <item name="android:statusBarColor" tools:targetApi="l">?attr/colorPrimaryVariant</item>
         </style>
      </resources>
```



Using style



```
ty_register.xml × 🚜 AndroidManifest.xml × 🚜 activity_login.xml × 🚜 themes.xml ×
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    package="it.insubria.loginapp" >
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="LoginApp"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.LoginApp" >
         <activity
             android:exported="true"
             android:windowSoftInputMode="adjustResize" >
             <intent-filter>
                 <action android:name="android.intent.action.MAIN" />
                 <category android:name="android.intent.category.LAUNCHER" />
             </intent-filter>
         </activity>
         <activity
             android:exported="false"
            android:windowSoftInputMode="adjustResize" />
    </application>
</manifest>
```

Define drawables

i ⊨ res

drawable

🖆 bg3.jpg (v24)

🚜 btn_bg.xml

🚜 ic_email.xml

🚜 ic_person.xml

🚜 ic_security.xml

🚜 input_bg.xml

```
<shape xmlns:android="http://schemas.android.com/apk/res/android">
                                    <solid android:color="@color/colorWhite"/>
                                    <corners android:radius="70dp"/>
                                  </shape>
                                                    btn_bg
                                                    ic email
                                              ic person
ic_icon_app_background.xml
                                              ic_security
🏭 ic_launcher_background.xml
ic_launcher_foreground.xml (v24)
                                              input_bg
                             <?xml version="1.0" encoding="utf-8"?>
                             <shape xmlns:android="http://schemas.android.com/apk/res/android">
                               <stroke android:color="@color/colorWhite" android:width="2dp"/>
                               <corners android:radius="70dp"/>
                             </shape>
```

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

Define drawables

i ⊨ res

drawable

🖆 bg3.jpg (v24)

🚜 btn_bg.xml

🚜 ic_email.xml

🚜 ic_person.xml

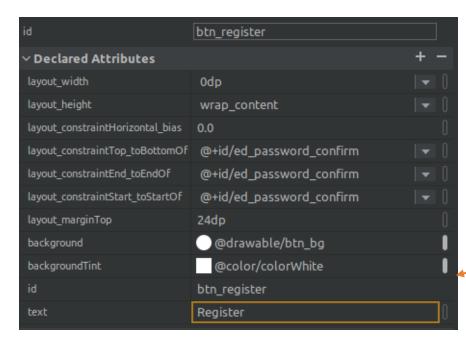
🚜 ic_security.xml

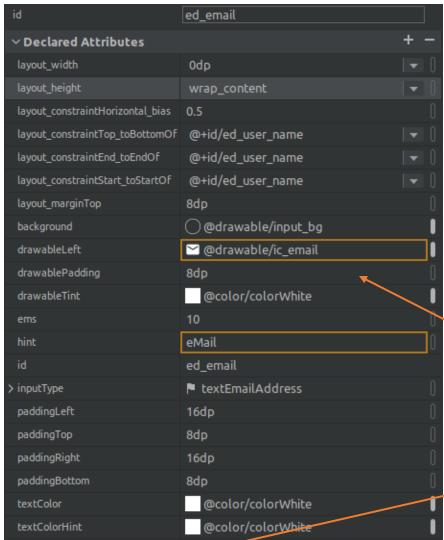
🚜 input_bg.xml

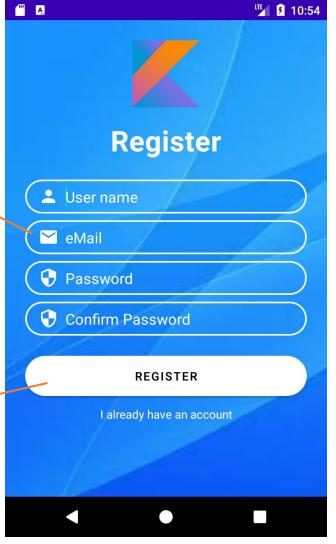
```
<shape xmlns:android="http://schemas.android.com/apk/res/android">
                                    <solid android:color="@color/colorWhite"/>
                                    <corners android:radius="70dp"/>
                                  </shape>
                                                    btn_bg
                                                    ic email
                                              ic person
ic_icon_app_background.xml
                                              ic_security
🏭 ic_launcher_background.xml
ic_launcher_foreground.xml (v24)
                                              input_bg
                             <?xml version="1.0" encoding="utf-8"?>
                             <shape xmlns:android="http://schemas.android.com/apk/res/android">
                               <stroke android:color="@color/colorWhite" android:width="2dp"/>
                               <corners android:radius="70dp"/>
                             </shape>
```

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

Attributes







Styles: override EditText style

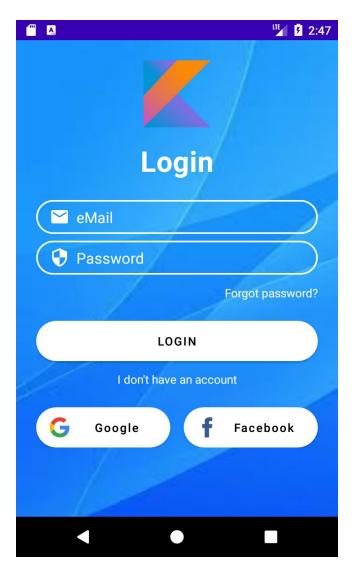
```
<!-- Override the attribute pointing to the EditText style -->
<item name="editTextStyle">@style/app_editTextStyle</item>
<!-- make your custom EditText style to extend Widget.EditText.-->
<style name="app_editTextStyle" parent="@android:style/Widget.EditText">
<item name="android:background">@drawable/input_bg</item>
<item name="android:textColor">?attr/colorPrimary</item>
<item name="android:paddingLeft">16dp</item>
<item name="android:paddingTop">8dp</item>
<item name="android:paddingRight">16dp</item>
<item name="android:paddingBottom">8dp</item>
<item name="android:drawablePadding">8dp</item>
<item name="android:drawableTint">?attr/colorPrimary</item>
<item name="android:textColorHint">?attr/colorPrimary</item>
</style>
```

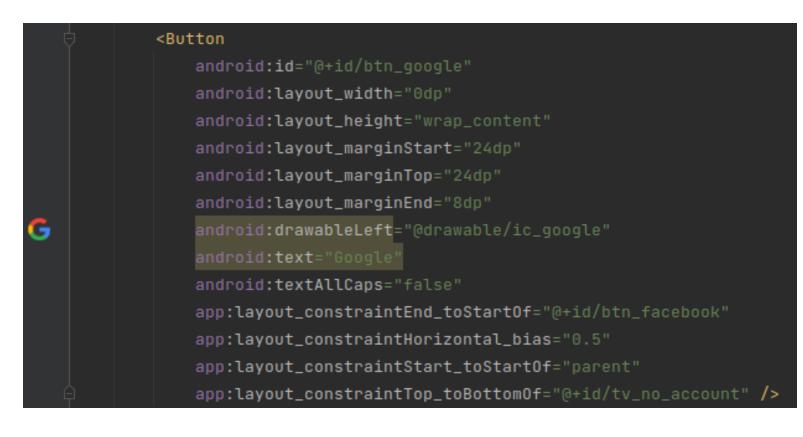
Styles: override MaterialButton style

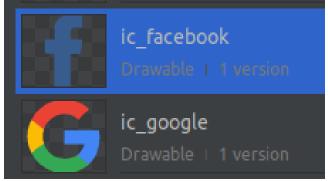
```
<!-- Override the attribute pointing to the MaterialButton style -->
<item name="materialButtonStyle">@style/app_ButtonStyle</item>

<!-- make your custom Button style to extend Widget.MaterialComponents.Button. -->
<style name="app_ButtonStyle" parent="Widget.MaterialComponents.Button">
<item name="android:background">@drawable/btn_bg</item>
<item name="android:textColor">?attr/colorOnPrimary</item>
<item name="android:backgroundTint">?attr/colorPrimary</item>
</style>
```

Login Activity







onClick

```
fun checkLogin(v: View?) {
 val email: String = editTextUserName.getText().toString()
 if (!isValidEmail(email)) {
   //Set error message for email field
   editTextUserName.setError(getString(R.string.invalid email))
 val pass: String = editTextPassword.getText().toString()
 if (!isValidPassword(pass)) {
   //Set error message for password field
   editTextPassword.setError(getString(R.string.invalid_password))
 if (isValidEmail(email) && isValidPassword(pass)) {
   // Validation Completed
```

```
// validating password
private fun isValidPassword(pass: String?): Boolean {
  return if (pass != null && pass.length >= 4) {
    true
  } else false
}
```