# **MainActivity.kt**

**package** com.example.login\_application  
  
**import** androidx.appcompat.app.AppCompatActivity  
**import** android.os.Bundle  
**import** android.util.Log  
**import** android.view.View  
**import** android.widget.Button  
**import** android.widget.TextView  
**import** com.example.login\_application.databinding.ActivityMainBinding  
  
**private lateinit var** *binding*: ActivityMainBinding  
**private lateinit var** *log\_btn*: Button  
**private lateinit var** *textView*: TextView  
**private lateinit var** *username*: TextView  
**private lateinit var** *password*: TextView  
**var** *users* = *mapOf*(**"user1"** *to* **"1111"**,  
 **"user2"** *to* **"2222"**,  
 **"user3"** *to* **"3333"**)  
  
  
**class** MainActivity : AppCompatActivity() {  
 **override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 *binding* = ActivityMainBinding.inflate(*layoutInflater*)  
 setContentView(*binding*.*root*)  
  
 *textView* = *binding*.**textView** *username* = *binding*.**usernameTv** *password* = *binding*.**passwordTv** *log\_btn* = *binding*.**loginBtn** *log\_btn*.setOnClickListener **{  
 val** user = *username*.*text*.toString().*toLowerCase*()  
 **val** pswd = *password*.*text*.toString()  
 *textView*.*visibility* = View.*VISIBLE* **if**(*validateCredentials*(user, pswd)){  
 *textView*.setText(**"Loged in!!!"**)  
 }  
 **else** {  
 *textView*.setText(**"Invalid."**)  
 }  
 **}** }  
  
}  
  
**fun** validateCredentials(username: String, password: String): Boolean {  
 **for**(usr **in** *users*) {  
 **if**(usr.**key** == username && usr.**value** == password){  
 **return true** }  
 }  
 **return false**}

# **activity\_main.xml**

*<?***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=".MainActivity"**>  
  
 <**EditText  
 android:id="@+id/username\_tv"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Username"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/password\_tv"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.802"** />  
  
 <**Button  
 android:id="@+id/login\_btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="108dp"  
 android:text="LogIn"  
 app:layout\_constraintBottom\_toTopOf="@+id/textView"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.501"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:ignore="MissingConstraints"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="128dp"  
 android:layout\_height="29dp"  
 android:layout\_marginBottom="332dp"  
 android:text="text"  
 android:textAlignment="center"  
 android:textSize="20sp"  
 android:visibility="invisible"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**EditText  
 android:id="@+id/password\_tv"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="32dp"  
 android:ems="10"  
 android:hint="Password"  
 android:inputType="textPassword"  
 android:minHeight="48dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/login\_btn"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

# **Build.gradle(Module:app)**

plugins **{** id **'com.android.application'** id **'org.jetbrains.kotlin.android'  
}**android **{** buildFeatures **{** viewBinding **true  
 }** namespace **'com.example.login\_application'** compileSdk 33  
  
 defaultConfig **{** applicationId **"com.example.login\_application"** minSdk 30  
 targetSdk 33  
 versionCode 1  
 versionName **"1.0"** testInstrumentationRunner **"androidx.test.runner.AndroidJUnitRunner"  
 }** buildTypes **{** release **{** minifyEnabled **false** proguardFiles getDefaultProguardFile(**'proguard-android-optimize.txt'**), **'proguard-rules.pro'  
 }  
 }** compileOptions **{** sourceCompatibility JavaVersion.***VERSION\_1\_8*** targetCompatibility JavaVersion.***VERSION\_1\_8* }** kotlinOptions **{** jvmTarget = **'1.8'  
 }  
}**dependencies **{** implementation **'androidx.core:core-ktx:1.7.0'** implementation **'androidx.appcompat:appcompat:1.6.1'** implementation **'com.google.android.material:material:1.9.0'** implementation **'androidx.constraintlayout:constraintlayout:2.1.4'** testImplementation **'junit:junit:4.13.2'** androidTestImplementation **'androidx.test.ext:junit:1.1.5'** androidTestImplementation **'androidx.test.espresso:espresso-core:3.5.1'  
}**

# **Screenshots**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated