# FireBase

## Authentication

Users    Sign-in method    Templates    Usage    Settings    ⬇ Extensions

| Identifier | Providers | Created ↓ | Signed In | User UID |
|---|---|---|---|---|
| hod.lev.lol.15@gmail.co... | ✉ | Nov 14, 2024 | | v0ndmbwF0xTKZW7Kw9mpc... |

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Assistant    Firebase

← Firebase  ›    Authentication

# Authenticate using Google

You can let your users authenticate with Firebase using their Goo

Launch in browser

① Connect your app to Firebase

✓ Connected

## ActivityHome

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:tools="http://schemas.android.com/tools">
    <TextView
        android:background="@drawable/porosh"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:textSize="62sp"
        android:gravity="center"
        tools:context=".activity_home"
        android:id="@+id/main"
    />

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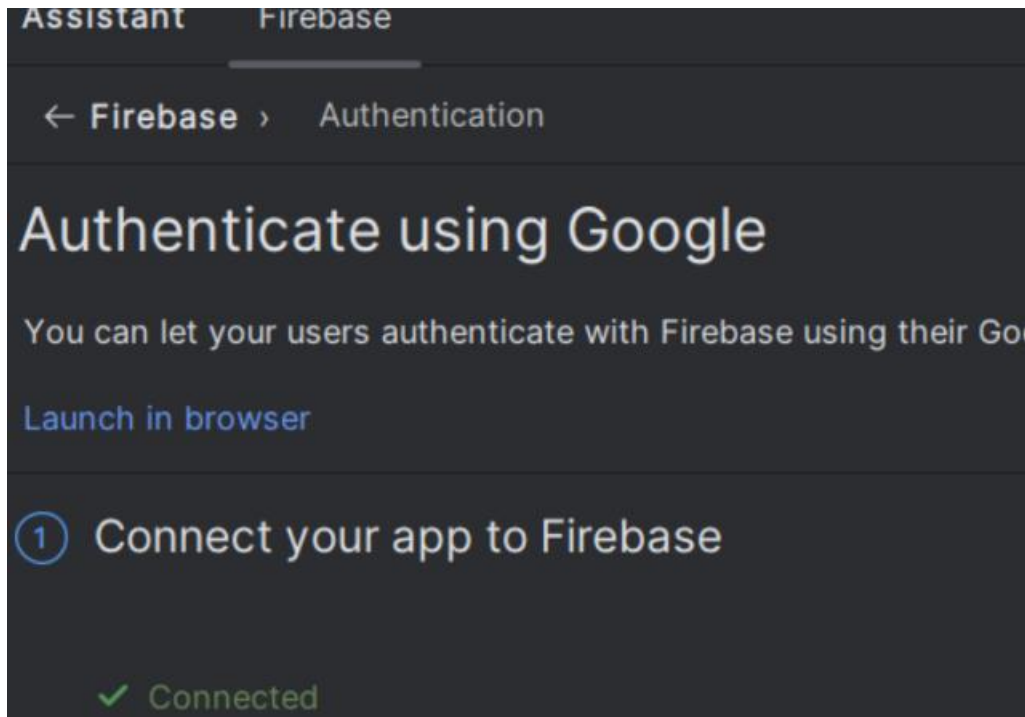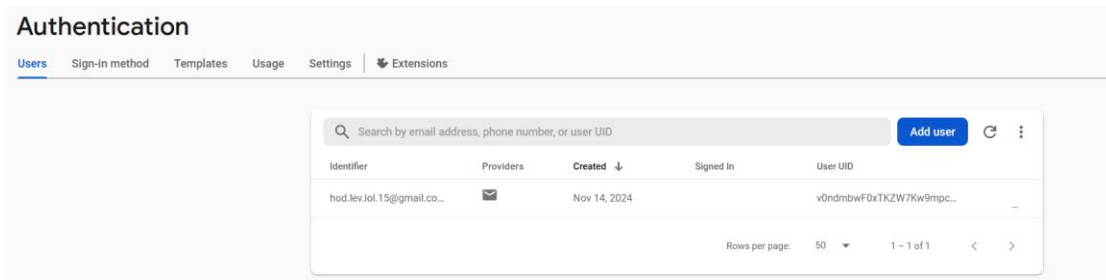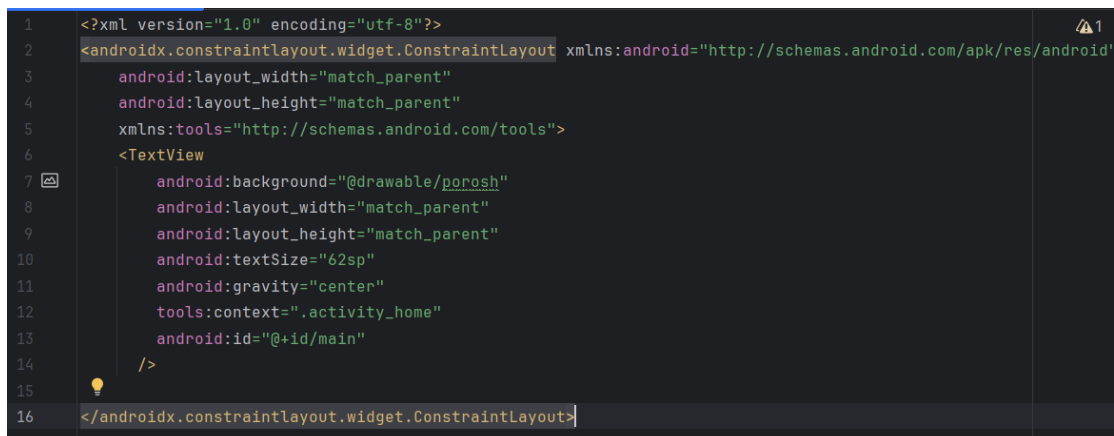
## HomeActivity

```kotlin
import android.os.Bundle
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity


class HomeActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_home)
    }
}
```

Activity Login

```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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".LoginActivity">
    <LinearLayout
        android:id="@+id/linearLayout"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:orientation="vertical"
        android:padding="15dp"
        android:paddingTop="40dp"
        android:paddingBottom="40dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toBottomOf="parent">
        <EditText
            android:id="@+id/etEmailAddress"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="15dp"
            android:layout_marginTop="30dp"
            android:layout_marginRight="15dp"
            android:autofillHints="emailAddress"
            android:ems="10"
            android:hint="Почта"
            android:inputType="textEmailAddress"
            android:minHeight="48dp"
            android:textColorHint="#757575" />
        <EditText
            android:id="@+id/etPassword"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="15dp"
            android:layout_marginTop="15dp"
            android:layout_marginRight="15dp"
            android:autofillHints="password"
            android:ems="10"
            android:hint="Пароль"
            android:inputType="textPassword"
```

```xml
            android:inputType="textPassword"
            android:minHeight="48dp"
            android:textColorHint="#757575" />
        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/btnLogin"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="15dp"
            android:textSize="16sp"
            android:background="@drawable/shape"
            android:text="ВХОД" />
        <TextView
            android:id="@+id/tvRedirectLogin"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:focusable="true"
            android:gravity="center_horizontal"
            android:layout_margin="10dp"
            android:clickable="true"
            android:text="Нет аккаунта?"
            android:textColor="#18206F"
            android:textSize="16sp" />
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

LoginActivity

```kotlin
import android.content.Intent
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.TextView
import android.widget.Toast
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import com.google.firebase.auth.FirebaseAuth

class LoginActivity : AppCompatActivity() {
    private lateinit var tvRedirectSignUp: TextView
    lateinit var etEmail: EditText
    private lateinit var etPass: EditText
    lateinit var btnLogin: Button
    lateinit var auth: FirebaseAuth
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_login)
        tvRedirectSignUp = findViewById(R.id.tvRedirectLogin)
        btnLogin = findViewById(R.id.btnLogin)
        etEmail = findViewById(R.id.etEmailAddress)
        etPass = findViewById(R.id.etPassword)
        auth = FirebaseAuth.getInstance()
        btnLogin.setOnClickListener {
            login()
        }
        tvRedirectSignUp.setOnClickListener {
            val intent = Intent( packageContext: this, RegistrationActivity::class.java)
            startActivity(intent)
        }
    }
    private fun login() {
        val email = etEmail.text.toString()
        val pass = etPass.text.toString()
        auth.signInWithEmailAndPassword(email,pass).addOnCompleteListener(this){
            if (it.isSuccessful) {
                Toast.makeText( context: this, text: "Вход успешен!", Toast.LENGTH_SHORT).show()
                val newIntent = Intent( packageContext: this, HomeActivity::class.java)
                startActivity(newIntent)
            } else
                Toast.makeText( context: this, text: "Ошибка входа ", Toast.LENGTH_SHORT).show()
```

RegistrationActivity

```kotlin
import android.content.Intent
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.TextView
import android.widget.Toast
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import com.google.firebase.Firebase
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.auth.auth

class RegistrationActivity : AppCompatActivity() {
    lateinit var etEmail: EditText
    lateinit var etConfPass: EditText
    private lateinit var etPass: EditText
    private lateinit var btnSignUp: Button
    lateinit var tvRedirect: TextView

    private lateinit var auth: FirebaseAuth
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)
        etEmail = findViewById(R.id.etSEmailAddress)
        etConfPass = findViewById(R.id.etSConfPassword)
        etPass = findViewById(R.id.etSPassword)
        btnSignUp = findViewById(R.id.btnSSigned)
        tvRedirect = findViewById(R.id.tvRedirectRegistration)
        auth = Firebase.auth
        btnSignUp.setOnClickListener {
            singUpUser()
        }
        tvRedirect.setOnClickListener {
            intent = Intent( packageContext: this, LoginActivity::class.java)
            startActivity(intent)
        }
    }
```

```kotlin
private fun singUpUser() {
    val email = etEmail.text.toString()
    val pass = etPass.text.toString()
    val confPass = etConfPass.text.toString()
    if (email.isBlank() || pass.isBlank() || confPass.isBlank()) {
        Toast.makeText(
            context: this, text: "Почта и пароль не могут быть пустыми йоу",
            Toast.LENGTH_SHORT
        ).show()
        return
    }
    if (pass != confPass) {
        Toast.makeText( context: this, text: "Пароль и пароль подтверждения не совпадают йоу", Toast.LENGTH_SHORT)
            .show()
        return
    }

    auth.createUserWithEmailAndPassword(email, pass).addOnCompleteListener(this) {
        if (it.isSuccessful) {
            Toast.makeText( context: this, text: "Регистрация йоу", Toast.LENGTH_SHORT).show()
            intent = Intent( packageContext: this, HomeActivity::class.java)
            startActivity(intent)
        } else {
            Toast.makeText( context: this, text: "Ошибка йоу", Toast.LENGTH_SHORT).show()
        }
    }
}
```

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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".LoginActivity">
    <LinearLayout
        android:id="@+id/linearLayout"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:orientation="vertical"
        android:padding="15dp"
        android:paddingTop="40dp"
        android:paddingBottom="40dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toBottomOf="parent">
        <EditText
            android:id="@+id/etSEmailAddress"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="15dp"
            android:layout_marginTop="30dp"
            android:layout_marginRight="15dp"
            android:autofillHints="emailAddress"
            android:ems="10"
            android:hint="Почта"
            android:inputType="textEmailAddress"
            android:minHeight="48dp"
            android:textColorHint="#757575" />
        <EditText
            android:id="@+id/etSPassword"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="15dp"
            android:layout_marginTop="15dp"
            android:layout_marginRight="15dp"
            android:autofillHints="password"
            android:ems="10"
            android:hint="Пароль"
            android:inputType="textPassword"
```

```xml
<androidx.constraintlayout.widget.ConstraintLayout
    <LinearLayout
        <EditText
                android:minHeight="48dp"
                android:textColorHint="#757575" />
        <EditText
                android:id="@+id/etSConfPassword"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="15dp"
                android:layout_marginTop="15dp"
                android:layout_marginRight="15dp"
                android:autofillHints="password"
                android:ems="10"
                android:hint="Подтвердите пароль"
                android:inputType="textPassword"
                android:minHeight="48dp"
                android:textColorHint="#757575"
                tools:ignore="TextContrastCheck" />

        <androidx.appcompat.widget.AppCompatButton
                android:id="@+id/btnSSigned"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="15dp"
                android:background="@drawable/shape"
                android:text="Регистрация"
                android:textSize="16sp" />

        <TextView
                android:id="@+id/tvRedirectRegistration"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:gravity="center_horizontal"
                android:layout_margin="10dp"
                android:text="Уже есть аккаунт?"
                android:textColor="#18206F"
                android:textSize="16sp" />
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

Стринги

```xml
<resources>
    <string name="app_name">ex12</string>
    <string name="accountexist">Уже есть аккаунт? Йоу</string>
    <string name="registration">Регистрация йоу</string>
</resources>
```

Colors

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
</resources>
```

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••••••••

**ВХОД**

Нет аккаунта?

1 2 3 4 5 6 7 8 9 0

q w e r t y u i o p

a s d f g h j k l

z x c v b n m

?123 ,