

## Практическая работа номер 12

1.Создаем новый проект

2.Создаем проект firebase

# Make your app 🧠🔥 the best it can be with Firebase and generative AI

Build & run modern, AI-powered experiences users love with Firebase, a platform designed to support you throughout your app development journey. Backed by Google and trusted by millions of businesses around the world.

Get started

Try demo →

Get started

Try demo →

× Create a project

Let's start with a name for  
your project <sup>Ⓢ</sup>

Enter your project name

My workspace project id

☐ I accept the [Firebase Terms of Service](#).

☐ I confirm that I will use Firebase exclusively for purposes relating to my trade, business, craft, or profession.

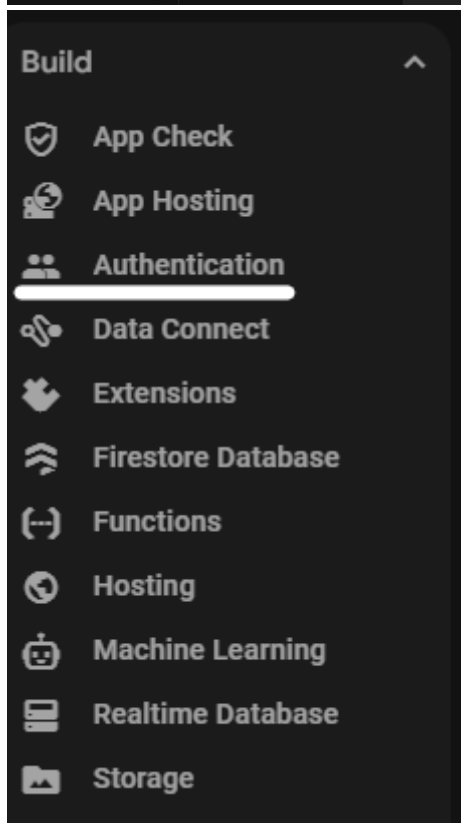
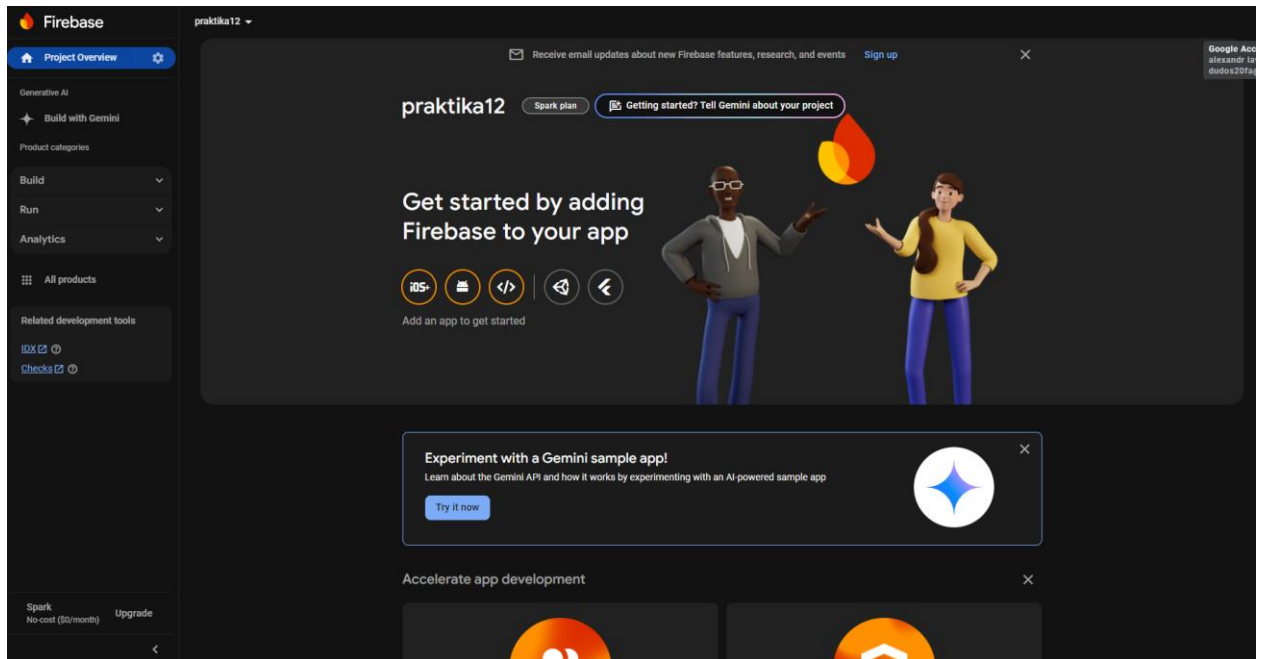
Already have a Google Cloud project?  
[Add Firebase to your Google Cloud project](#)

Continue

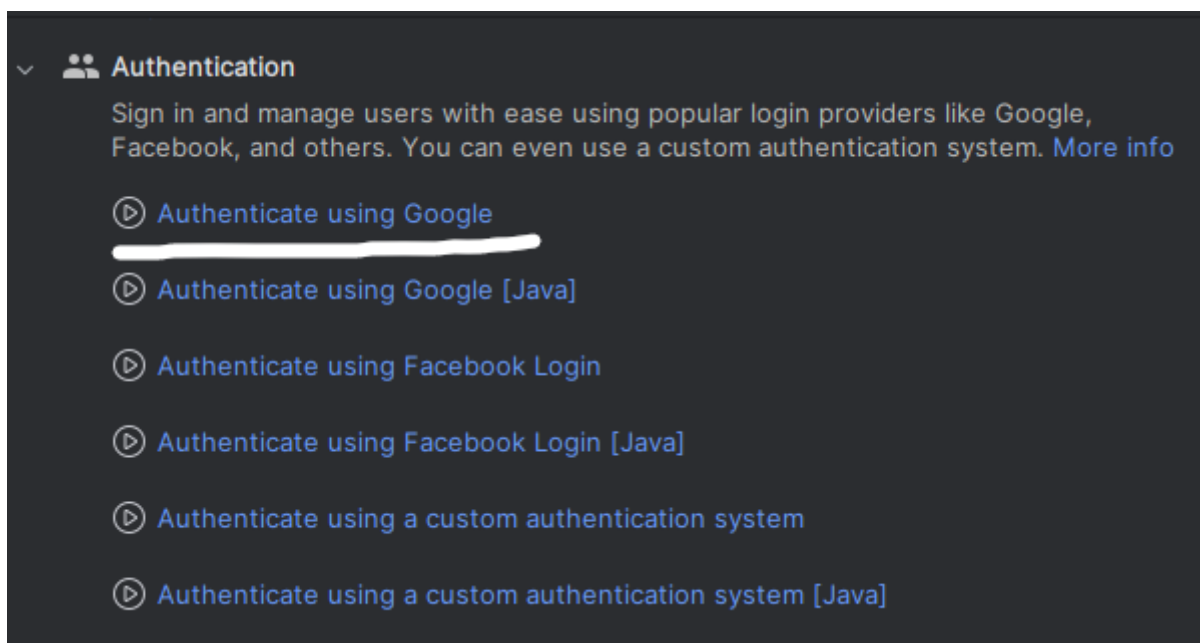
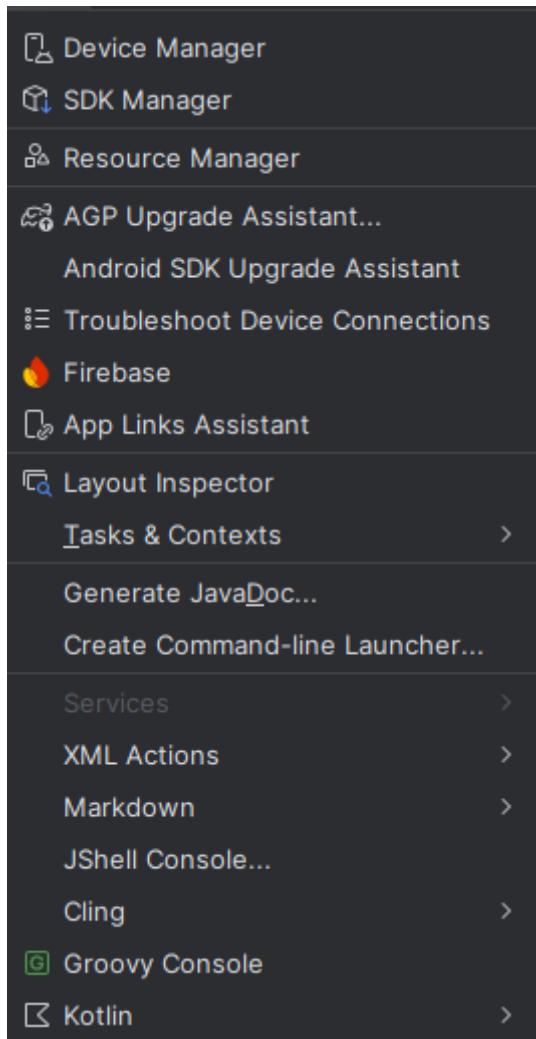


Preparing your project, please wait.

praktika12



### 3. Заходим в android studio и соединяемся с firebase





## Your Android Studio project is connected to your Firebase Android app

You can now use Firebase in your project! Go back to Android Studio to start using one of the Firebase SDKs.

HomeActivity  
LoginActivity  
MainActivity

### 4. Пишем код и оформляем

MainActivity

```
class MainActivity : AppCompatActivity() {  
    // Объявление переменных для пользовательского интерфейса  
    lateinit var etEmail: EditText  
    lateinit var etConfPass: EditText  
    private lateinit var etPass: EditText  
    private lateinit var btnSignUp: Button  
    lateinit var tvRedirectLogin: TextView  
  
    // Объект для аутентификации с помощью Firebase  
    private lateinit var auth: FirebaseAuth  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        enableEdgeToEdge()  
        setContentView(R.layout.activity_main)  
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->  
            val systemBars =  
                insets.getInsets(WindowInsetsCompat.Type.systemBars())  
            v.setPadding(  
                systemBars.left, systemBars.top, systemBars.right,  
                systemBars.bottom  
            )  
            insets  
        }  
        // Инициализация пользовательского интерфейса  
        etEmail = findViewById(R.id.etEmailAddress)  
        etConfPass = findViewById(R.id.et$ConfPassword)  
        etPass = findViewById(R.id.et$Password)  
        btnSignUp = findViewById(R.id.btn$Signed)  
        tvRedirectLogin = findViewById(R.id.tvRedirectLogin)  
        // Инициализация объекта FirebaseAuth для аутентификации  
        auth = FirebaseAuth  
        btnSignUp.setOnClickListener {  
            singUpUser()  
        }  
        // Если у нас, есть аккаунт переходим на активность LoginActivity  
        tvRedirectLogin.setOnClickListener {  
            intent = Intent( packageContext: this, LoginActivity::class.java)  
            startActivity(intent)  
        }  
    }  
}
```

```

private fun singUpUser() {
    //Все поля с editText, сохраняем в переменные в виде строк текста
    val email = etEmail.text.toString()
    val pass = etPass.text.toString()
    val confPass = etConfPass.text.toString()
    //Проверка на пустые поля
    if (email.isBlank() || pass.isBlank() || confPass.isBlank()) {
        Toast.makeText(
            context, this, text: "Почта и пароль не могут быть пустыми",
            Toast.LENGTH_SHORT
        ).show()
        return
    }
    //Проверка на совпадение паролей
    if (pass != confPass) {
        Toast.makeText(context, this, text: "Пароль и пароль подтверждения не совпадают", Toast.LENGTH_SHORT)
            .show()
        return
    }
    //Создание пользователя с использованием email и пароля через
    Firebase

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

```

<> activity\_main.xml

```

<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=".MainActivity">
    <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="Nowra"
            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"

```

```

<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="#828759"
        android:text="Регистрация" />
    <TextView
        android:id="@+id/tvRedirectLogin"
        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>

```

Почта

Пароль

Подтвердите пароль

РЕГИСТРАЦИЯ

Уже есть аккаунт!

## LoginActivity

```

class LoginActivity : AppCompatActivity() {
    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)
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) {
            v, insets ->
            val systemBars =
                insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
                systemBars.bottom)
            insets
        }
        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, MainActivity::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, "Вход выполнен!",
                    Toast.LENGTH_SHORT).show()
                intent = Intent(packageContext, HomeActivity::class.java)
                startActivity(intent)
            } else

```

```

        startActivity(intent)
    } else
        Toast.makeText(context, this, text: "Ошибка входа ",
            Toast.LENGTH_SHORT).show()
    }
}
}

```

## </> activity\_login.xml

```

<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="421dp"
        android:layout_height="733dp"
        android:orientation="vertical"
        android:padding="15dp"
        android:paddingTop="40dp"
        android:paddingBottom="40dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="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"

```

```

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/btnLogin"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="15dp"
            android:text="ВХОД"
            android:textSize="16sp" />

```

```

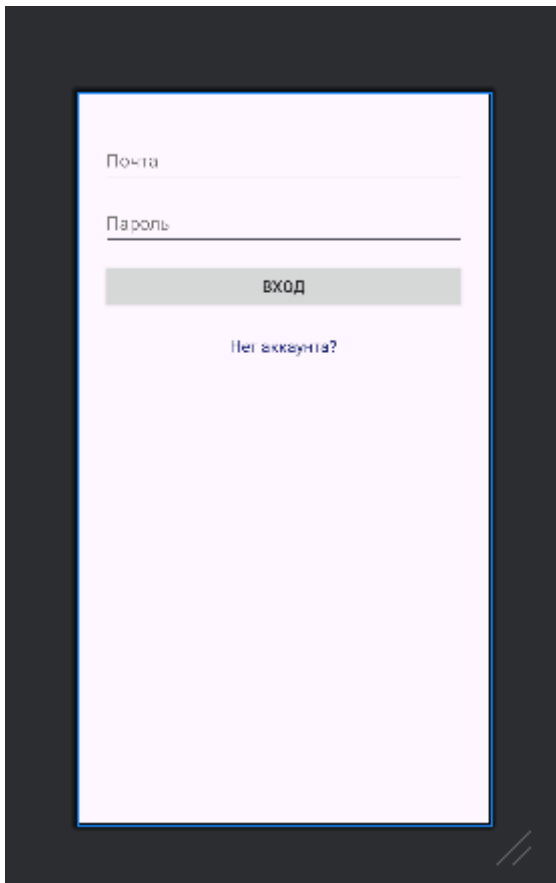
        <TextView
            android:id="@+id/tvRedirectLogin"
            android:layout_width="371dp"
            android:layout_height="71dp"
            android:layout_margin="10dp"
            android:clickable="true"
            android:focusable="true"
            android:gravity="center_horizontal"
            android:text="Нет аккаунта?"
            android:textColor="#18206F"
            android:textSize="16sp" />

```

```

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

```



</> activity\_home.xml

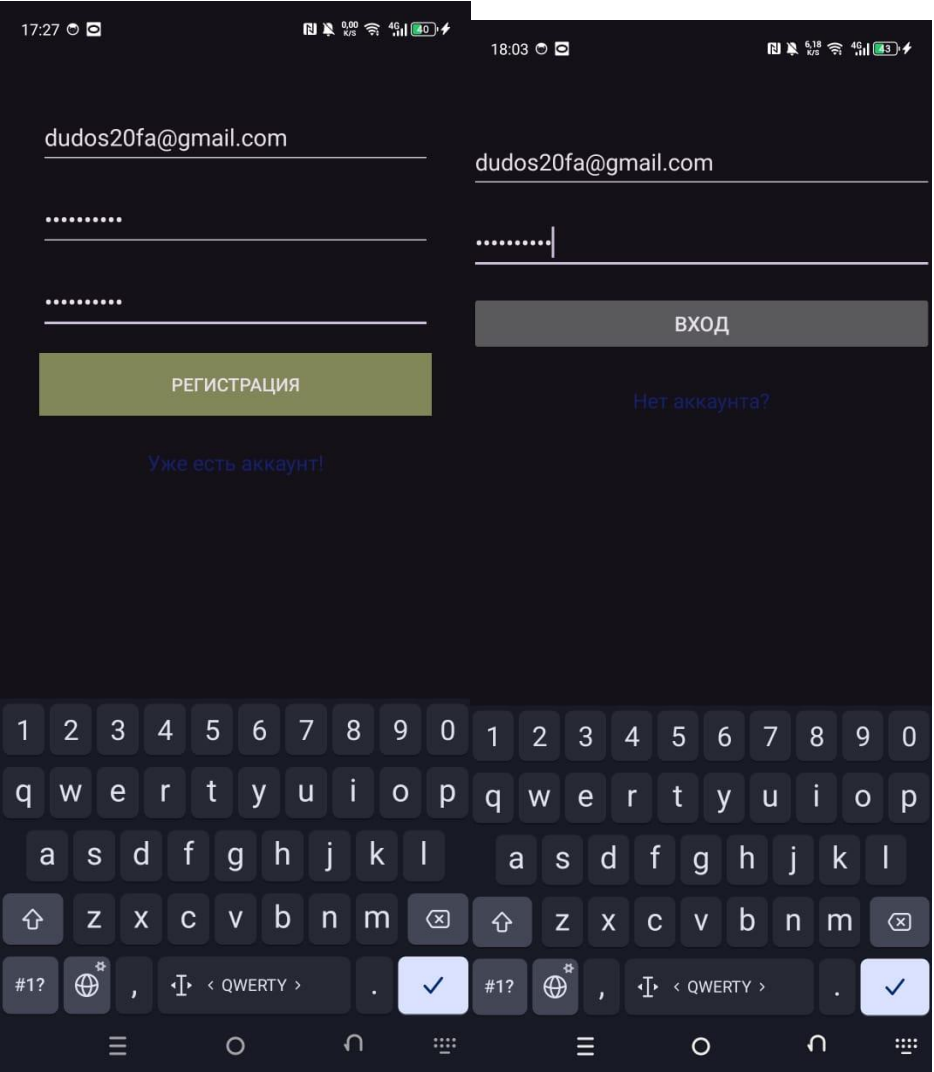
```
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/obr"
    tools:context=".HomeActivity">

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





5.Вводим наши данные



6.Наш профиль появился в firebase

UsersSign-in methodTemplatesUsageSettingsExtensions

! Cross origin redirect sign-in is no longer supported in many browsers. Update your app to ensure yo  
your app.

Search by email address, phone number, or user UID

Identifier	Providers	Created ↓	Signed In	User U
dudos20fa@gmail.com		Nov 11, 2024	Nov 11, 2024	EADVI

Rows per page: 50