

## Практическая работа №12

1. Зашли на сайт firebase, авторизировались, соединили с проектом в androidstudio, настроили.

### 2. activity\_main.xml

```
9      tools:context=".MainActivity">
10      <LinearLayout
11          android:id="@+id/linearLayout"
12          android:layout_width="0dp"
13          android:layout_height="0dp"
14          android:orientation="vertical"
15          android:padding="15dp"
16          android:paddingTop="40dp"
17          android:paddingBottom="40dp"
18          app:layout_constraintEnd_toEndOf="parent"
19          app:layout_constraintStart_toStartOf="parent"
20          app:layout_constraintTop_toTopOf="parent"
21          app:layout_constraintBottom_toBottomOf="parent">
22          <EditText
23              android:id="@+id/etSEmailAddress"
24              android:layout_width="match_parent"
25              android:layout_height="wrap_content"
26              android:layout_marginLeft="15dp"
27              android:layout_marginTop="30dp"
28              android:layout_marginRight="15dp"
29              android:autofillHints="emailAddress"
30              android:ems="10"
31              android:hint="Почта"
32              android:inputType="textEmailAddress"
33              android:minHeight="48dp"
34              android:textColorHint="#757575" />
35          <EditText
36              android:id="@+id/etSPassword"
37              android:layout_width="match_parent"
38              android:layout_height="wrap_content"
39              android:layout_marginLeft="15dp"
40              android:layout_marginTop="15dp"
41              android:layout_marginRight="15dp"
42              android:autofillHints="password"
43              android:ems="10"
44              android:hint="Пароль"
45              android:inputType="textPassword"
46              android:minHeight="48dp"
47              android:textColorHint="#757575" />
48          <EditText
49              android:id="@+id/etSConfPassword"
50              android:layout_width="match_parent"
51              android:layout_height="wrap_content"
52              android:layout_marginLeft="15dp"
53              android:layout_marginTop="15dp"
54              android:layout_marginRight="15dp"
55              android:autofillHints="password"
56              android:ems="10"
57              android:hint="Подтвердите пароль"
58              android:inputType="textPassword"
59              android:minHeight="48dp"
60              android:textColorHint="#757575"
61              tools:ignore="TextContrastCheck" />
62          <androidx.appcompat.widget.AppCompatButton
63              android:id="@+id/btnSSigned"
64              android:layout_width="match_parent"
65              android:layout_height="wrap_content"
66              android:layout_margin="15dp"
67              android:background="#828759"
68              android:text="Регистрация" />
69          <TextView
70              android:id="@+id/tvRedirectLogin"
71              android:layout_width="match_parent"
72              android:layout_height="wrap_content"
73              android:gravity="center_horizontal"
74              android:layout_margin="10dp"
75              android:text="Уже есть аккаунт!"
76              android:textColor="#18206F"
77              android:textSize="16sp" />
78      </LinearLayout>
79  </androidx.constraintlayout.widget.ConstraintLayout>
```

### 3.activity\_login

```
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp"
    android:orientation="horizontal">

    <TextView
        android:id="@+id/etEmailAddress"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Почта"
        android:textSize="18sp"
        android:layout_marginBottom="8dp" />

    <EditText
        android:id="@+id/editTextEmail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Введите почту"
        android:inputType="textEmailAddress"
        android:layout_below="@id/etEmailAddress"
        android:layout_marginBottom="20dp" />

    <TextView
        android:id="@+id/textViewPassword"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Пароль"
        android:textSize="18sp"
        android:layout_below="@id/editTextEmail"
        android:layout_marginBottom="8dp" />

    <EditText
        android:id="@+id/etPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Введите пароль"
        android:inputType="textPassword"
        android:layout_below="@id/textViewPassword"
```

```
        android:id="@+id/etPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Введите пароль"
        android:inputType="textPassword"
        android:layout_below="@id/textViewPassword"
        android:layout_marginBottom="16dp" />

    <Button
        android:id="@+id/btnLogin"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Вход"
        android:layout_below="@id/etPassword" />

    <TextView
        android:id="@+id/tvRedirectSignUp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Нет аккаунта? Нужна регистрация"
        android:textColor="@android:color/holo_blue_dark"
        android:layout_below="@id/btnLogin"
        android:layout_marginTop="16dp"
        android:clickable="true"
        android:focusable="true" />

</LinearLayout>
```

## 4.MainActivity.kt

```
lateinit var etEmail: EditText
lateinit var etConfPass: EditText
private lateinit var etPass: EditText
private lateinit var btnSignUp: Button
lateinit var tvRedirectLogin: TextView

private lateinit var auth: FirebaseAuth

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    enableEdgeToEdge()
    setContentView(R.layout.activity_main)

    etEmail = findViewById(R.id.etEmailAddress)
    etConfPass = findViewById(R.id.etSConfPassword)
    etPass = findViewById(R.id.etSPassword)
    btnSignUp = findViewById(R.id.btnSSigned)
    tvRedirectLogin = findViewById(R.id.tvRedirectLogin)

    auth = Firebase.auth

    btnSignUp.setOnClickListener {
        singUpUser()
    }

    tvRedirectLogin.setOnClickListener {
        intent = Intent(packageContext this, LoginActivity::class.java)
        startActivity(intent)
    }
}

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()) {
```

```
        if (email.isBlank() || pass.isBlank() || confPass.isBlank()) {
            Toast.makeText(context this, text: "Почта и пароль не могут быть пустыми", Toast.LENGTH_SHORT).show()
            return
        }

        if (pass != confPass) {
            Toast.makeText(context this, text: "Пароль и пароль подтверждения не совпадают", Toast.LENGTH_SHORT).show()
            return
        }

        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()
            }
        }
    }
}
```

## 5.LoginActivity

```
> </> 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

    @SuppressLint("MissingInflatedId")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_login)

        tvRedirectSignUp = findViewById(R.id.tvRedirectSignUp)
        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, 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: this, text: "Вход успешен!", Toast.LENGTH_SHORT).show()
                intent = Intent(packageContext: this, MainActivity::class.java)
                startActivity(intent)
            } else {
                Toast.makeText(context: this, text: "Ошибка входа", Toast.LENGTH_SHORT).show()
            }
        }
    }
}
```