

Выполнил Войтенко Данил

Xml activitymain

```
<?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=".db.reg.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/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"
            android:minHeight="48dp"
            android:textColorHint="#757575" />
        <EditText
            android:id="@+id/etSConfPassword"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
```

```

<EditText
    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="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!

Далее идет код для activitymain

```
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 androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import com.example.android_practice12.R
import com.google.firebase.auth.FirebaseAuth

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

    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
}

etEmail = findViewById(R.id.etEmailAddress)
etConfPass = findViewById(R.id.etSConfPassword)
etPass = findViewById(R.id.etSPassword)
btnSignUp = findViewById(R.id.btnSigned)
tvRedirectLogin = findViewById(R.id.tvRedirectLogin)
auth = FirebaseAuth.getInstance()

btnSignUp.setOnClickListener {
    signUpUser ()
}

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

private fun signUpUser () {
```

```
    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", Toast.LENGTH_SHORT).show()
        return
    }

    if (pass != confPass) {
        Toast.makeText( context: this, text: "Пароль и подтверждение пароля 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()
            val intent = Intent( packageContext: this, HomeActivity::class.java)
            startActivity(intent)
        } else {
            Toast.makeText( context: this, text: "Ошибка регистрации: ${it.exception?.message}", Toast.LENGTH_SHORT).show()
        }
    }
}
```

В этот момент я уже подключил и создал базу данных вот доказательства

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="gcm_defaultSenderId" translatable="false">427273604073</string>
    <string name="google_api_key" translatable="false">AIzaSyD0LkJv_DexLzC3Ld0NS1V-04tGtRvms6o</string>
    <string name="google_app_id" translatable="false">1:427273604073:android:2d9436cb24297161a8d978</string>
    <string name="google_crash_reporting_api_key" translatable="false">AIzaSyD0LkJv_DexLzC3Ld0NS1V-04tGtRvms6o</string>
    <string name="google_storage_bucket" translatable="false">sample-firebase-ai-app-eb635.firebaseio.firebaseio</string>
    <string name="project_id" translatable="false">sample-firebase-ai-app-eb635</string>
</resources>
```

Далее я создал активити для входа в аккаунт вот xml

```
<androidx.constraintlayout.widget.ConstraintLayout
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <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"

            <LinearLayout
                <EditText
                    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"
                    android:minHeight="48dp"
                    android:textColorHint="#757575" />
                <androidx.appcompat.widget.AppCompatButton
                    android:id="@+id/btnLogin"
                    android:layout_gravity="center"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_margin="15dp"
                    android:background="#999999"
                    android:text="Вход" />
            <TextView
```

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

Почта

Пароль

Вход

Нет аккаунта? Нужна регистрация

Cam loginactivity

```

package com.example.base

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 androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import com.example.android_practice12.R
import com.google.firebase.auth.FirebaseAuth

class LoginActivity : AppCompatActivity() {
    private lateinit var tvRedirectSignUp: TextView
    private lateinit var etEmail: EditText
    private lateinit var etPass: EditText
    private lateinit var btnLogin: Button
    private 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.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()

```

```

private fun login() {
    val email = etEmail.text.toString()
    val pass = etPass.text.toString()
    if (email.isBlank() || pass.isBlank()) {
        Toast.makeText(context: this, text: "Пожалуйста, заполните все поля", Toast.LENGTH_SHORT).show()
        return
    }

    auth.signInWithEmailAndPassword(email, pass).addOnCompleteListener(this) {
        if (it.isSuccessful) {
            Toast.makeText(context: this, text: "Вход успешен!", Toast.LENGTH_SHORT).show()
            intent = Intent(packageContext: this, HomeActivity::class.java)
            startActivity(intent)
        } else {
            Toast.makeText(context: this, text: "Ошибка входа: ${it.exception?.message}", Toast.LENGTH_SHORT).show()
        }
    }
}
}

```

И последнее это активити при заходе в аккаунт

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-auto"
    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=".db.reg.HomeActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Hello my Friends"
        android:textAlignment="center"
        android:textSize="40sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

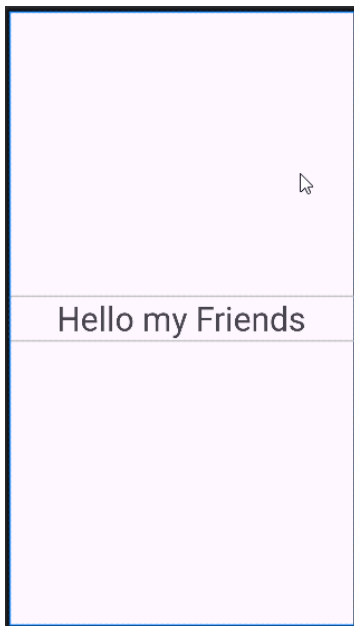
</androidx.constraintlayout.widget.ConstraintLayout>

```

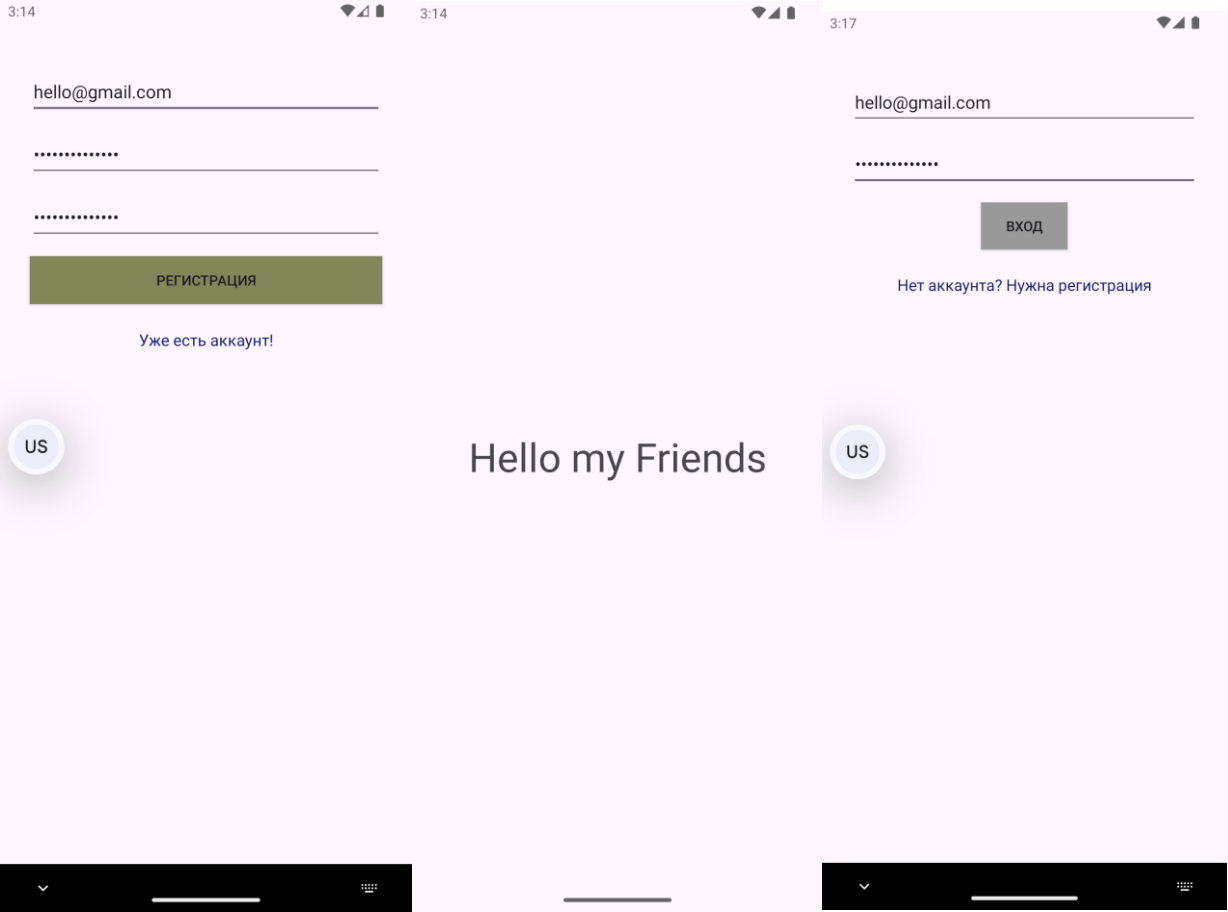
```
package com.example.base

import ...

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



Пример работы



Search by email address, phone number, or user UID					Add user	↺	⋮
Identifier	Providers	Created ↓	Signed In	User UID			
hello@gmail.com	✉	Nov 18, 2024	Nov 18, 2024	gDH42d5YoKeq4rblP29Dhx2...			
mail@gmail.com	✉	Nov 17, 2024	Nov 17, 2024	sljIRPjpqjfe3ITsUydxg91YgTp1			
hello@gamil.com	✉	Nov 11, 2024	Nov 11, 2024	CDsP33Y7pAQLAJdLGue3aKT...			
random@gmail.com	✉	Nov 11, 2024	Nov 11, 2024	FD49BzixiWSF699C2A00ZSbd...			
random1301414@gmai...	✉	Nov 11, 2024		41C1gBc2zJakcVIHOfB7GeTP...			
Rows per page:					50 ▼	1 – 5 of 5	◀ ▶

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Hello my Friends

