

Задание 12

P.S — Firebase подключить не получилось

Создали класс для работы с БД:

```
DatabaseHelper.kt  RegistrationActivity.kt  LoginActivity.kt
1  package com.test.db12
2
3  import android.content.ContentValues
4  import android.content.Context
5  import android.database.sqlite.SQLiteDatabase
6  import android.database.sqlite.SQLiteOpenHelper
7
8  class DatabaseHelper(context: Context) : SQLiteOpenHelper(context, DATABASE_NAME, null, DATABASE_VERSION) {
9
10     companion object {
11         private const val DATABASE_NAME = "users.db"
12         private const val DATABASE_VERSION = 1
13
14         const val TABLE_USERS = "users"
15         const val COLUMN_ID = "id"
16         const val COLUMN_EMAIL = "email"
17         const val COLUMN_PASSWORD = "password"
18     }
19
20     override fun onCreate(db: SQLiteDatabase) {
21         val createTable = "CREATE TABLE $TABLE_USERS (" +
22             "$COLUMN_ID INTEGER PRIMARY KEY AUTOINCREMENT, " +
23             "$COLUMN_EMAIL TEXT, " +
24             "$COLUMN_PASSWORD TEXT)"
25         db.execSQL(createTable)
26     }
27
28     override fun onUpgrade(db: SQLiteDatabase, oldVersion: Int, newVersion: Int) {
29         db.execSQL("DROP TABLE IF EXISTS $TABLE_USERS")
30         onCreate(db)
31     }
32
33     // Метод для регистрации пользователя
34     fun registerUser(email: String, password: String): Boolean {
35         val db = this.writableDatabase
36         val values = ContentValues()
37         values.put(COLUMN_EMAIL, email)
38         values.put(COLUMN_PASSWORD, password)
39
40         val result = db.insert(TABLE_USERS, null, values)
41         db.close()
42         return result != -1L
43     }
44
45     // Метод для проверки пользователя при входе
46     fun loginUser(email: String, password: String): Boolean {
47         val db = this.readableDatabase
48         val query = "SELECT * FROM $TABLE_USERS WHERE $COLUMN_EMAIL = ? AND $COLUMN_PASSWORD = ?"
49         val cursor = db.rawQuery(query, arrayOf(email, password))
50
51         val exists = cursor.count > 0
52         cursor.close()
53         db.close()
54         return exists
55     }
56 }
57
```

RegistrationActivity:

```
1 package com.test.db12
2
3 > import ...
4
11
12 <> class RegistrationActivity : AppCompatActivity() {
13     lateinit var etEmail: EditText
14     lateinit var etConfPass: EditText
15     private lateinit var etPass: EditText
16     private lateinit var btnSignUp: Button
17     lateinit var tvRedirect: TextView
18
19     private lateinit var dbHelper: DatabaseHelper
20
21     override fun onCreate(savedInstanceState: Bundle?) {
22         super.onCreate(savedInstanceState)
23         enableEdgeToEdge()
24         setContentView(R.layout.activity_main)
25
26         etEmail = findViewById(R.id.etSEmailAddress)
27         etConfPass = findViewById(R.id.etSConfPassword)
28         etPass = findViewById(R.id.etSPassword)
29         btnSignUp = findViewById(R.id.btnSSigned)
30         tvRedirect = findViewById(R.id.tvRedirectRegistration)
31
32         dbHelper = DatabaseHelper(this)
33
34         btnSignUp.setOnClickListener {
35             singUpUser()
36         }
37         tvRedirect.setOnClickListener {
38             val intent = Intent(this, LoginActivity::class.java)
39             startActivity(intent)
40         }
41     }
42
43     private fun singUpUser() {
44         val email = etEmail.text.toString()
45         val pass = etPass.text.toString()
46         val confPass = etConfPass.text.toString()
47
48         if (email.isBlank() || pass.isBlank() || confPass.isBlank()) {
49             Toast.makeText(this, "Почта и пароль не могут быть пустыми", Toast.LENGTH_SHORT).show()
50             return
51         }
52         if (pass != confPass) {
53             Toast.makeText(this, "Пароль и пароль подтверждения не совпадают", Toast.LENGTH_SHORT).show()
54             return
55         }
56
57         val success = dbHelper.registerUser(email, pass)
58         if (success) {
59             Toast.makeText(this, "Регистрация успешна", Toast.LENGTH_SHORT).show()
60             val intent = Intent(this, HomeActivity::class.java)
61             startActivity(intent)
62         } else {
63             Toast.makeText(this, "Ошибка регистрации", Toast.LENGTH_SHORT).show()
64         }
65     }
66 }
67
```

LoginActivity:

```
1 package com.test.db12
2
3 > import ...
4
11
12 <> class LoginActivity : AppCompatActivity() {
13     private lateinit var tvRedirectSignUp: TextView
14     lateinit var etEmail: EditText
15     private lateinit var etPass: EditText
16     lateinit var btnLogin: Button
17
18     private lateinit var dbHelper: DatabaseHelper
19
20     override fun onCreate(savedInstanceState: Bundle?) {
21         super.onCreate(savedInstanceState)
22         enableEdgeToEdge()
23         setContentView(R.layout.activity_login)
24
25         tvRedirectSignUp = findViewById(R.id.tvRedirectLogin)
26         btnLogin = findViewById(R.id.btnLogin)
27         etEmail = findViewById(R.id.etEmailAddress)
28         etPass = findViewById(R.id.etPassword)
29
30         dbHelper = DatabaseHelper(this)
31
32         btnLogin.setOnClickListener {
33             login()
34         }
35         tvRedirectSignUp.setOnClickListener {
36             val intent = Intent(this, RegistrationActivity::class.java)
37             startActivity(intent)
38         }
39     }
40
41     private fun login() {
42         val email = etEmail.text.toString()
43         val pass = etPass.text.toString()
44
45         if (dbHelper.loginUser(email, pass)) {
46             Toast.makeText(this, "Вход успешен!", Toast.LENGTH_SHORT).show()
47             val newIntent = Intent(this, HomeActivity::class.java)
48             startActivity(newIntent)
49         } else {
50             startActivity(newIntent)
51         } else {
52             Toast.makeText(this, "Неверный логин или пароль", Toast.LENGTH_SHORT).show()
53         }
54     }
55 }
```

Результат:

Регистрация

7:45

test@test.com

.....

.....

РЕГИСТРАЦИЯ

Уже есть аккаунт?

.....

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 , . ✓

Логин

7:45

test@test.com

.....

ВХОД

Нет аккаунта?

.....

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 , . ✓

7:45

Вход успешен!