Тема: "Разработка приложения "Учет аппаратного оборудования""

ВЫПОЛНИЛ СТУДЕНТ ГРУППЫ ИС-32 БОНДАРЕВ Д.С.

Цель учебной практики – разработка мобильного приложения для Android

Объект исследования – мобильные приложения

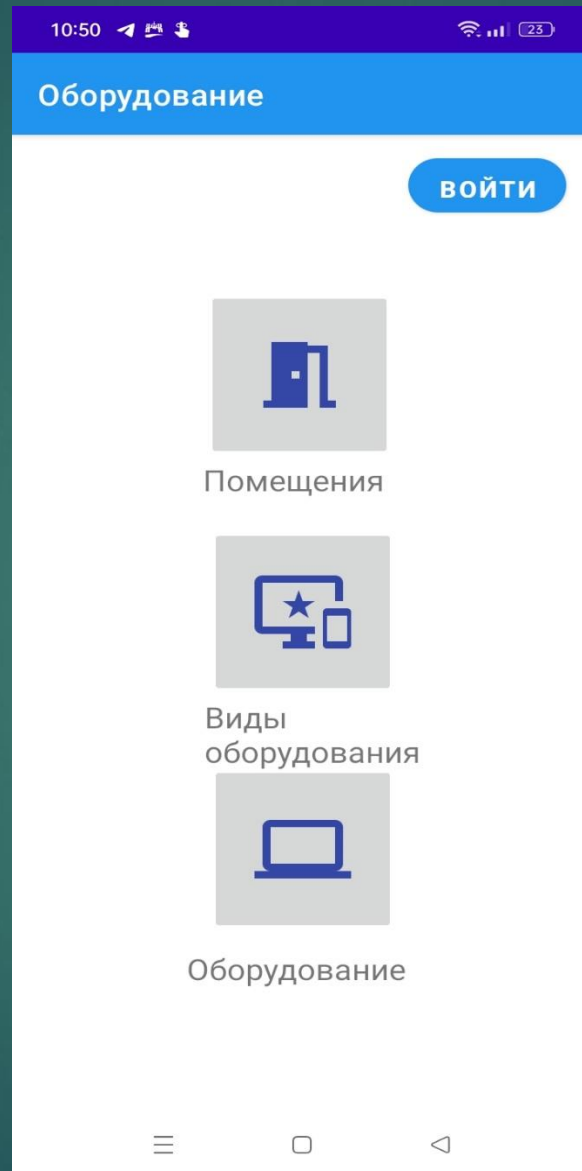Предмет исследования – особенности реализации мобильного приложения для Android

Выбор инструментальных средств

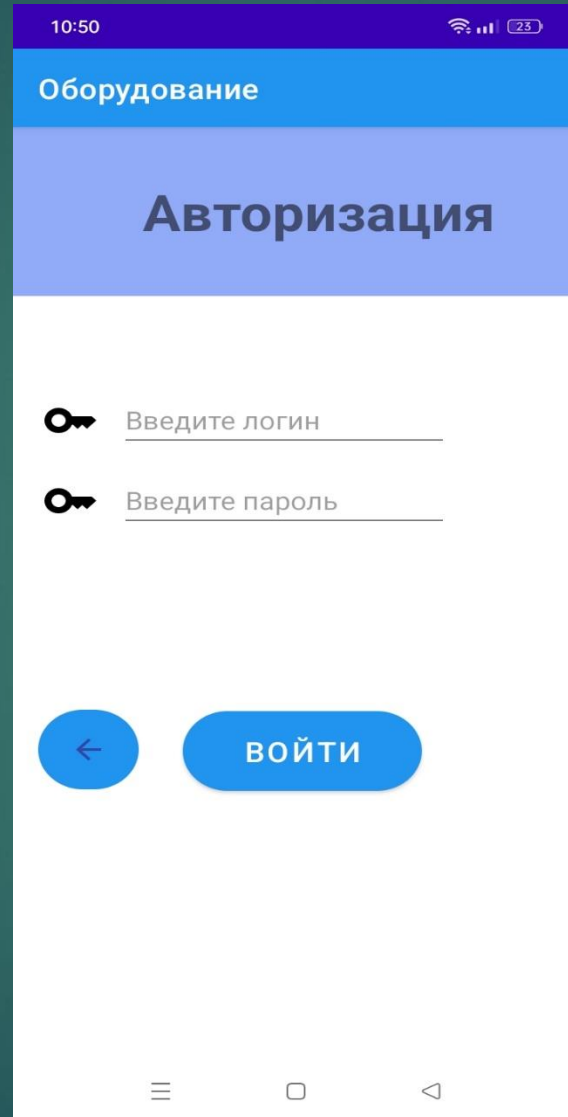# Главное меню

Реализация нажатия кнопок

```kotlin
fun Room (view: View){
    val intent: Intent = Intent( packageContext: this@MainActivity, RoomActivity::class.java)
    startActivity(intent)
}
fun Login (view: View){
    val intent: Intent = Intent( packageContext: this@MainActivity, LoginActivity::class.java)
    startActivity(intent)
}
fun Types(view: View){
    val intent: Intent = Intent( packageContext: this@MainActivity, TypesOfDeviceActivity::class.java)
    startActivity(intent)
}

fun Device(view: View){
    val intent: Intent = Intent( packageContext: this@MainActivity, DeviceActivity::class.java)
    startActivity(intent)
}
```

Окно авторизации

```kotlin
fun Login(view: View) {
    val loginText: TextView = findViewById(R.id.editTextLogin)
    val passwordText: TextView = findViewById(R.id.editTextPassword)
    val signText: TextView = findViewById(R.id.textSign)
    val login = loginText.text.toString()
    val password = passwordText.text.toString().toInt()
    val intent: Intent = Intent( packageContext: this@LoginActivity, ProfileActivity::class.java)
    if (login.toString().equals("admin") && (password.toString().toInt().equals(123456))) {
        signText.setText("Вы успешно авторизировались!")
        intent.putExtra( name: "Login", login)
        intent.putExtra( name: "Password", password)
        startActivity(intent)
    } else {
        signText.setText("Логин или пароль неверны!")
    }
    if (login.toString().trim().length == 0) {
        signText.setText("Заполните поля!")
    }
}

fun BackMenu (view: View){
    val intent: Intent = Intent( packageContext: this@LoginActivity, MainActivity::class.java)
    startActivity(intent)
}
```

Профиль

```kotlin
fun Back (view: View){
    val intent: Intent = Intent( packageContext: this@ProfileActivity, MainActivity::class.java)
    startActivity(intent)
}

fun AddDevice_1 (view: View){
    val intent: Intent = Intent( packageContext: this@ProfileActivity, AddRoomActivity::class.java)
    startActivity(intent)
}

fun AddDevice_2 (view: View){
    val intent: Intent = Intent( packageContext: this@ProfileActivity, AddTypesActivity::class.java)
    startActivity(intent)
}

fun AddDevice_3 (view: View){
    val intent: Intent = Intent( packageContext: this@ProfileActivity, AddDeviceActivity::class.java)
    startActivity(intent)
}
```

Окна добавления

```kotlin
fun Profile (view: View){
    val intent: Intent = Intent( packageContext: this@AddDeviceActivity, ProfileActivity::class.java)
    startActivity(intent)
}

fun Add(view: View){
    val roomText1: TextView = findViewById(R.id.editTextRoom1)
    val roomText2: TextView = findViewById(R.id.editTextRoom2)
    val roomText3: TextView = findViewById(R.id.editTextRoom3)
    val roomText4: TextView = findViewById(R.id.editTextRoom4)
    val roomText5: TextView = findViewById(R.id.editTextRoom5)
    val roomText6: TextView = findViewById(R.id.editTextRoom6)
    val roomText7: TextView = findViewById(R.id.editTextRoom7)
    val roomText8: TextView = findViewById(R.id.editTextRoom8)
    val roomText9: TextView = findViewById(R.id.editTextRoom9)
    val roomText10: TextView = findViewById(R.id.editTextRoom10)
    val roomText11: TextView = findViewById(R.id.editTextRoom11)
    val roomText12: TextView = findViewById(R.id.editTextRoom12)
    val roomText13: TextView = findViewById(R.id.editTextRoom13)
    val roomText14: TextView = findViewById(R.id.editTextRoom14)
    val roomText15: TextView = findViewById(R.id.editTextRoom15)
    val roomText16: TextView = findViewById(R.id.editTextRoom16)
    val roomText17: TextView = findViewById(R.id.editTextRoom17)
    val roomText18: TextView = findViewById(R.id.editTextRoom18)
```

```kotlin
val room1 = roomText1.text.toString()
val room2 = roomText2.text.toString()
val room3 = roomText3.text.toString()
val room4 = roomText4.text.toString()
val room5 = roomText5.text.toString()
val room6 = roomText6.text.toString()
val room7 = roomText7.text.toString()
val room8 = roomText8.text.toString()
val room9 = roomText9.text.toString()
val room10 = roomText10.text.toString()
val room11 = roomText11.text.toString()
val room12 = roomText12.text.toString()
val room13 = roomText13.text.toString()
val room14 = roomText14.text.toString()
val room15 = roomText15.text.toString()
val room16 = roomText16.text.toString()
val room17 = roomText17.text.toString()
val room18 = roomText18.text.toString()

val intent: Intent = Intent( packageContext: this@AddDeviceActivity, DeviceActivity::class.java)
intent.putExtra( name: "Room1", room1)
intent.putExtra( name: "Room2", room2)
intent.putExtra( name: "Room3", room3)
intent.putExtra( name: "Room4", room4)
intent.putExtra( name: "Room5", room5)
intent.putExtra( name: "Room6", room6)
intent.putExtra( name: "Room7", room7)
intent.putExtra( name: "Room8", room8)
intent.putExtra( name: "Room9", room9)
intent.putExtra( name: "Room10", room10)
intent.putExtra( name: "Room11", room11)
intent.putExtra( name: "Room12", room12)
intent.putExtra( name: "Room13", room13)
intent.putExtra( name: "Room14", room14)
intent.putExtra( name: "Room15", room15)
intent.putExtra( name: "Room16", room16)
intent.putExtra( name: "Room17", room17)
intent.putExtra( name: "Room18", room18)

startActivity(intent)
```

Окна просмотра информации
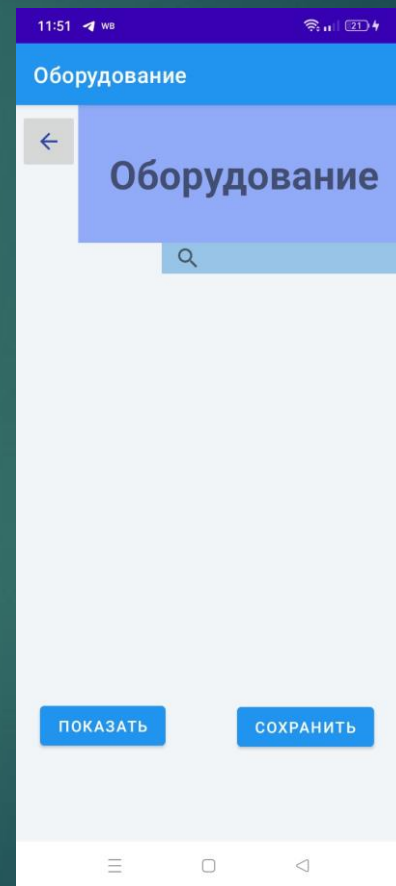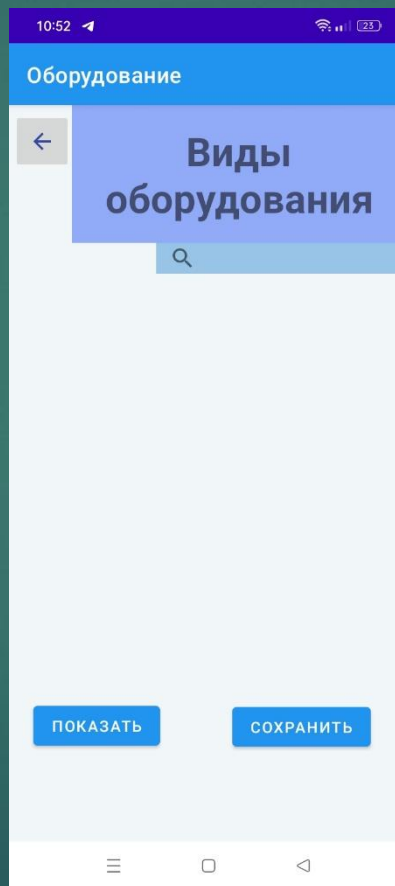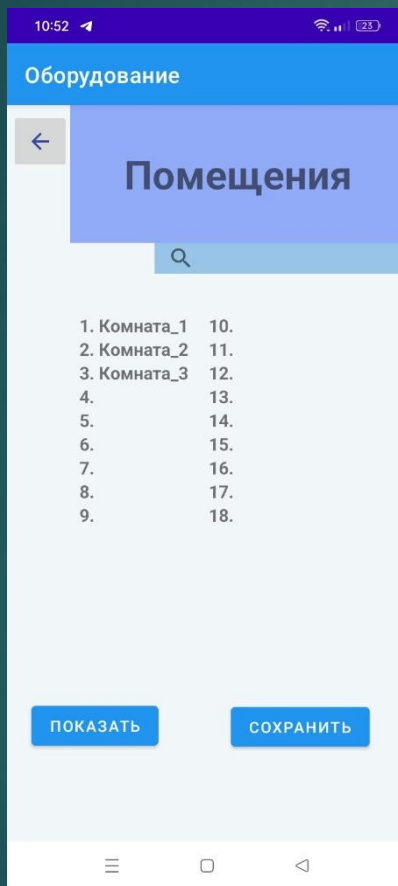
```kotlin
private val sharedPrefFile2 = "kotlinsharedpreference2"

val textView: TextView = findViewById<TextView>(R.id.textInfo1)
val textView2: TextView = findViewById<TextView>(R.id.textInfo2)
val textView3: TextView = findViewById<TextView>(R.id.textInfo3)
val textView4: TextView = findViewById<TextView>(R.id.textInfo4_1)
val textView5: TextView = findViewById<TextView>(R.id.textInfo5)
val textView6: TextView = findViewById<TextView>(R.id.textInfo6)
val textView7: TextView = findViewById<TextView>(R.id.textView7)
val textView8: TextView = findViewById<TextView>(R.id.textView8)
val textView9: TextView = findViewById<TextView>(R.id.textView9_1)
val textView10: TextView = findViewById<TextView>(R.id.textInfo10)
val textView11: TextView = findViewById<TextView>(R.id.textInfo11)
val textView12: TextView = findViewById<TextView>(R.id.textInfo12)
val textView13: TextView = findViewById<TextView>(R.id.textView13)
val textView14: TextView = findViewById<TextView>(R.id.textView14)
val textView15: TextView = findViewById<TextView>(R.id.textView15)
val textView16: TextView = findViewById<TextView>(R.id.textView16)
val textView17: TextView = findViewById<TextView>(R.id.textView17)
val textView18: TextView = findViewById<TextView>(R.id.textView18)

val outputView = findViewById<TextView>(R.id.textInfo1)
val outputView2 = findViewById<TextView>(R.id.textInfo2)
val outputView3 = findViewById<TextView>(R.id.textInfo3)
val outputView4 = findViewById<TextView>(R.id.textInfo4_1)
val outputView5 = findViewById<TextView>(R.id.textInfo5)
val outputView6 = findViewById<TextView>(R.id.textInfo6)
val outputView7 = findViewById<TextView>(R.id.textView7)
val outputView8 = findViewById<TextView>(R.id.textView8)
val outputView9 = findViewById<TextView>(R.id.textView9_1)
val outputView10 = findViewById<TextView>(R.id.textInfo10)
val outputView11 = findViewById<TextView>(R.id.textInfo11)
val outputView12 = findViewById<TextView>(R.id.textInfo12)
val outputView13 = findViewById<TextView>(R.id.textView13)
val outputView14 = findViewById<TextView>(R.id.textView14)
val outputView15 = findViewById<TextView>(R.id.textView15)
val outputView16 = findViewById<TextView>(R.id.textView16)

val btnSave = findViewById<Button>(R.id.ButtonSave)
val btnView = findViewById<Button>(R.id.ButtonView)
val sharedPreferences: SharedPreferences =
    this.getSharedPreferences(sharedPrefFile2,Context.MODE_PRIVATE)
btnSave.setOnClickListener(View.OnClickListener { it: View!
    val room1: String = textView.text.toString()
    val room2: String = textView2.text.toString()
    val room3: String = textView3.text.toString()
    val room4: String = textView4.text.toString()
    val room5: String = textView5.text.toString()
    val room6: String = textView6.text.toString()
    val room7: String = textView7.text.toString()
    val room8: String = textView8.text.toString()
    val room9: String = textView9.text.toString()
    val room10: String = textView10.text.toString()
    val room11: String = textView11.text.toString()
    val room12: String = textView12.text.toString()
    val room13: String = textView13.text.toString()
    val room14: String = textView14.text.toString()
    val room15: String = textView15.text.toString()
    val room16: String = textView16.text.toString()
    val room17: String = textView17.text.toString()
    val room18: String = textView18.text.toString()

    val editor:SharedPreferences.Editor = sharedPreferences.edit()
    editor.putString("Room1", room1)
    editor.putString("Room2", room2)
    editor.putString("Room3", room3)
    editor.putString("Room4", room4)
    editor.putString("Room5", room5)
    editor.putString("Room6", room6)
    editor.putString("Room7", room7)
    editor.putString("Room8", room8)
```

```kotlin
btnView.setOnClickListener { it: View!
    val sharedRoom1Value = sharedPreferences.getString("Room1", "defaultname")
    val sharedRoom2Value = sharedPreferences.getString("Room2", "defaultname")
    val sharedRoom3Value = sharedPreferences.getString("Room3", "defaultname")
    val sharedRoom4Value = sharedPreferences.getString("Room4", "defaultname")
    val sharedRoom5Value = sharedPreferences.getString("Room5", "defaultname")
    val sharedRoom6Value = sharedPreferences.getString("Room6", "defaultname")
    val sharedRoom7Value = sharedPreferences.getString("Room7", "defaultname")
    val sharedRoom8Value = sharedPreferences.getString("Room8", "defaultname")
    val sharedRoom9Value = sharedPreferences.getString("Room9", "defaultname")
    val sharedRoom10Value = sharedPreferences.getString("Room10", "defaultname")
    val sharedRoom11Value = sharedPreferences.getString("Room11", "defaultname")
    val sharedRoom12Value = sharedPreferences.getString("Room12", "defaultname")
    val sharedRoom13Value = sharedPreferences.getString("Room13", "defaultname")
    val sharedRoom14Value = sharedPreferences.getString("Room14", "defaultname")
    val sharedRoom15Value = sharedPreferences.getString("Room15", "defaultname")
    val sharedRoom16Value = sharedPreferences.getString("Room16", "defaultname")
    val sharedRoom17Value = sharedPreferences.getString("Room17", "defaultname")
    val sharedRoom18Value = sharedPreferences.getString("Room18", "defaultname")

    if (sharedRoom1Value.equals( other: "defaultname") && sharedRoom2Value.equals( other: "defaultname")
        && sharedRoom3Value.equals( other: "defaultname") && sharedRoom4Value.equals( other: "defaultname")
        && sharedRoom5Value.equals( other: "defaultname") && sharedRoom6Value.equals( other: "defaultname")
        && sharedRoom7Value.equals( other: "defaultname") && sharedRoom8Value.equals( other: "defaultname")
        && sharedRoom9Value.equals( other: "defaultname") && sharedRoom10Value.equals( other: "defaultname")
        && sharedRoom11Value.equals( other: "defaultname") && sharedRoom12Value.equals( other: "defaultname")
        && sharedRoom13Value.equals( other: "defaultname") && sharedRoom14Value.equals( other: "defaultname")
        && sharedRoom15Value.equals( other: "defaultname") && sharedRoom16Value.equals( other: "defaultname")
        && sharedRoom17Value.equals( other: "defaultname") && sharedRoom18Value.equals( other: "defaultname")) {
        outputView.setText("default room1: ${sharedRoom1Value}").toString()
        outputView.setText("default room2: ${sharedRoom2Value}").toString()
        outputView.setText("default room3: ${sharedRoom3Value}").toString()
        outputView.setText("default room4: ${sharedRoom4Value}").toString()
        outputView.setText("default room5: ${sharedRoom5Value}").toString()
        outputView.setText("default room6: ${sharedRoom6Value}").toString()
        outputView.setText("default room7: ${sharedRoom7Value}").toString()
        outputView.setText("default room8: ${sharedRoom8Value}").toString()
        outputView.setText("default room9: ${sharedRoom9Value}").toString()

        outputView.setText( default room10: ${sharedRoom10Value} ).toString(
    } else {
        outputView.setText(sharedRoom1Value).toString()
        outputView2.setText(sharedRoom2Value).toString()
        outputView3.setText(sharedRoom3Value).toString()
        outputView4.setText(sharedRoom4Value).toString()
        outputView5.setText(sharedRoom5Value).toString()
        outputView6.setText(sharedRoom6Value).toString()
        outputView7.setText(sharedRoom7Value).toString()
        outputView8.setText(sharedRoom8Value).toString()
        outputView9.setText(sharedRoom9Value).toString()
        outputView10.setText(sharedRoom10Value).toString()
        outputView11.setText(sharedRoom11Value).toString()
        outputView12.setText(sharedRoom12Value).toString()
        outputView13.setText(sharedRoom13Value).toString()
        outputView14.setText(sharedRoom14Value).toString()
        outputView15.setText(sharedRoom15Value).toString()
        outputView16.setText(sharedRoom16Value).toString()
        outputView17.setText(sharedRoom17Value).toString()
        outputView18.setText(sharedRoom18Value).toString()
    }

}
val arguments: Bundle? = intent.extras
if (arguments != null){

    val Room1: String = arguments.get("Room1").toString()
    val Room2: String = arguments.get("Room2").toString()
    val Room3: String = arguments.get("Room3").toString()
    val Room4: String = arguments.get("Room4").toString()
    val Room5: String = arguments.get("Room5").toString()
    val Room6: String = arguments.get("Room6").toString()
    val Room7: String = arguments.get("Room7").toString()
    val Room8: String = arguments.get("Room8").toString()
    val Room9: String = arguments.get("Room9").toString()
    val Room10: String = arguments.get("Room10").toString()
```

```kotlin
        textView.text = "1. $Room1"
        textView2.text = "2. $Room2"
        textView3.text = "3. $Room3"
        textView4.text = "4. $Room4"
        textView5.text = "5. $Room5"
        textView6.text = "6. $Room6"
        textView7.text = "7. $Room7"
        textView8.text = "8. $Room8"
        textView9.text = "9. $Room9"
        textView10.text = "10. $Room10"
        textView11.text = "11. $Room11"
        textView12.text = "12. $Room12"
        textView13.text = "13. $Room13"
        textView14.text = "14. $Room14"
        textView15.text = "15. $Room15"
        textView16.text = "16. $Room16"
        textView17.text = "17. $Room17"
        textView18.text = "18. $Room18"
    }
fun back2 (view: View){
        val intent: Intent = Intent( packageContext: this@RoomActivity, MainActivity::class.java)
        startActivity(intent)
    }
}
```