

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ  
ЗАПОРІЗЬКИЙ НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ  
МЕТЕМАТИЧНИЙ ФАКУЛЬТЕТ  
КАФЕДРА ПРОГРАМНОЇ ІНЖЕНЕРІЇ

Дисципліна «Мови програмування мобільних пристроїв»  
Лабораторна робота № 3

Виконав:

Студентка гр. 6.1212-2п  
Соколова Каріна

Перевірив:

Викладач  
Дребезов Д.О.

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## MainActivity

```
package com.example.lab3

import android.content.Intent
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Surface
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.compose.ui.tooling.preview.Preview
import com.example.lab3.ui.theme.Lab3Theme

class MainActivity : ComponentActivity() {
    private val users = mutableMapOf<String, String>()

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

        val loginInput: EditText = findViewById(R.id.loginInput)
        val passwordInput: EditText = findViewById(R.id.passwordInput)
        val submitButton: Button = findViewById(R.id.submitButton)

        users["admin"] = "admin"
        users["user"] = "user"

        submitButton.setOnClickListener {
            val login = loginInput.text.toString()
            val password = passwordInput.text.toString();
            if (users.containsKey(login) && users[login] == password) {
                val intent = Intent(this, UserActivity::class.java)
                intent.putExtra("USER_LOGIN", login)
                startActivity(intent)
            } else {
                loginInput.error = "Invalid login or password"
            }
        }
    }
}
```

```
}  
}  
}
```

## UserActivity

```
package com.example.lab3  
  
import android.content.Intent  
import android.os.Bundle  
import android.widget.Button  
import android.widget.TextView  
import androidx.appcompat.app.AppCompatActivity  
import androidx.activity.ComponentActivity  
//import com.example.lab3.R.*  
  
class UserActivity : ComponentActivity() {  
    private lateinit var loginTextView: TextView  
  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_user)  
  
        val userLogin = intent.getStringExtra("USER_LOGIN")  
        val settingButton: Button = findViewById(R.id.button3)  
        val gameButton: Button = findViewById(R.id.gameButton)  
  
        loginTextView = findViewById(R.id.textView6)  
        loginTextView.text = "Logged in as: $userLogin"  
  
        settingButton.setOnClickListener {  
            val intent = Intent(this, SettingActivity::class.java)  
            startActivity(intent)  
        }  
        gameButton.setOnClickListener {  
            val intent = Intent(this, GameActivity::class.java)  
            startActivity(intent)  
        }  
    }  
}
```

## SettingActivity

```
package com.example.lab3

import android.content.Context
import android.content.Intent
import android.net.ConnectivityManager
import android.net.LinkAddress
import android.net.NetworkCapabilities
import android.net.NetworkInfo
import android.os.Bundle
import android.widget.Button
import android.widget.CheckBox
import android.widget.EditText
import android.widget.RadioButton
import android.widget.TextView
import androidx.activity.ComponentActivity

class SettingActivity : ComponentActivity() {
    private lateinit var ipTextView: TextView

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

        val currentLogin = intent.getStringExtra("USER_LOGIN") ?: ""
        val newLoginInput: EditText = findViewById(R.id.editTextText)
        val updateButton: Button = findViewById(R.id.button)
        val checkBox: CheckBox = findViewById(R.id.checkBox)
        ipTextView = findViewById(R.id.textView5)

        newLoginInput.setText(currentLogin)

        checkBox.setOnCheckedChangeListener { _, isChecked ->
            if (isChecked) {
                ipTextView.text = "192.168.0.1"
            } else {
                ipTextView.text = ""
            }
        }

        updateButton.setOnClickListener {
```

```

        val radioButton: RadioButton = findViewById(R.id.radioButton)

        val isShowName = radioButton.isChecked
        val newLogin = newLoginInput.text.toString()
        val intent = Intent(this, UserActivity::class.java)
        val loginToUse = if (isShowName) newLogin else ""
        intent.putExtra("USER_LOGIN", loginToUse)
        startActivity(intent)
    }
}

```

## GameActivity

```

package com.example.lab3

import android.content.Intent
import android.os.Bundle
import android.widget.Button
import androidx.activity.ComponentActivity
import androidx.appcompat.app.AppCompatActivity

class GameActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_game)

        val yesButton: Button = findViewById(R.id.button2)
        val noButton: Button = findViewById(R.id.button5)

        yesButton.setOnClickListener {
            val intent = Intent(this, ResultActivity::class.java)
            intent.putExtra("RESULT_MESSAGE", "You lose")
            startActivity(intent)
        }

        noButton.setOnClickListener {
            val intent = Intent(this, ResultActivity::class.java)
            intent.putExtra("RESULT_MESSAGE", "You win")
            startActivity(intent)
        }
    }
}

```

## ResultActivity

```
package com.example.lab3

import android.os.Bundle
import android.widget.TextView
import androidx.activity.ComponentActivity
import androidx.appcompat.app.AppCompatActivity

class ResultActivity : ComponentActivity() {
    private lateinit var resultTextView: TextView

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

        resultTextView = findViewById(R.id.resultTextView)

        val message = intent.getStringExtra("RESULT_MESSAGE")
        resultTextView.text = message
    }
}
```

## activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <EditText
            android:id="@+id/loginInput"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:ems="10"
            android:hint="Login"
            android:inputType="text"
```

```

        android:text="admin"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

<EditText
    android:id="@+id/passwordInput"
    android:layout_width="match_parent"
    android:layout_height="48dp"
    android:ems="10"
    android:hint="Password"
    android:inputType="textPassword"
    android:text="admin"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/loginInput" />

<Button
    android:id="@+id/submitButton"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:text="Submit"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/passwordInput" />
</androidx.constraintlayout.widget.ConstraintLayout>

</LinearLayout>

```

#### activity\_user.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical"
    android:visibility="visible">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="#888080">

```

```

<Button
    android:id="@+id/button3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="4dp"
    android:text="Setting"
    android:visibility="visible"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<Button
    android:id="@+id/gameButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Start"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.937" />
</androidx.constraintlayout.widget.ConstraintLayout>

</LinearLayout>

```

activity\_setting

```

<?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:layout_width="match_parent"

```



```
android:layout_height="match_parent">
```

```
<Button
```

```
    android:id="@+id/button"
    android:layout_width="137dp"
    android:layout_height="48dp"
    android:text="Apply"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.943" />
```

```
<FrameLayout
```

```
    android:id="@+id/frameLayout"
    android:layout_width="417dp"
    android:layout_height="66dp"
    android:background="#3F51B5"
    app:layout_constraintBottom_toTopOf="@+id/button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.001">
```

```
<TextView
```

```
    android:id="@+id/textView"
    android:layout_width="119dp"
    android:layout_height="wrap_content"
    android:text="Setting"
    android:textColor="#DCBFBD"
    android:textSize="30sp" />
```

```
</FrameLayout>
```

```
<TextView
```

```
    android:id="@+id/textView2"
    android:layout_width="116dp"
    android:layout_height="30dp"
    android:text="Change name"
    app:layout_constraintBottom_toTopOf="@+id/button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.071"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/frameLayout"
```

```
app:layout_constraintVertical_bias="0.016" />
```

```
<EditText
```

```
    android:id="@+id/editTextText"
```

```
    android:layout_width="216dp"
```

```
    android:layout_height="53dp"
```

```
    android:ems="10"
```

```
    android:inputType="text"
```

```
    android:text="Name"
```

```
    app:layout_constraintBottom_toTopOf="@+id/button"
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.087"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toBottomOf="@+id/frameLayout"
```

```
    app:layout_constraintVertical_bias="0.095" />
```

```
<RadioGroup
```

```
    android:layout_width="200dp"
```

```
    android:layout_height="90dp"
```

```
    app:layout_constraintBottom_toTopOf="@+id/button"
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.062"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toBottomOf="@+id/frameLayout"
```

```
    app:layout_constraintVertical_bias="0.318">
```

```
<RadioButton
```

```
    android:id="@+id/radioButton"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="63dp"
```

```
    android:height="90dp"
```

```
    android:text="Yes" />
```

```
</RadioGroup>
```

```
<TextView
```

```
    android:id="@+id/textView3"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:text="Visible or not"
```

```
    app:layout_constraintBottom_toTopOf="@+id/button"
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.059"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```

app:layout_constraintTop_toBottomOf="@+id/frameLayout"
app:layout_constraintVertical_bias="0.223" />
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="My ip"
    app:layout_constraintBottom_toTopOf="@+id/button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.059"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/frameLayout"
    app:layout_constraintVertical_bias="0.477" />

```

```

<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    app:layout_constraintBottom_toTopOf="@+id/button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.099"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/checkbox"
    app:layout_constraintVertical_bias="0.12" />

```

```

<CheckBox
    android:id="@+id/checkbox"
    android:layout_width="102dp"
    android:layout_height="62dp"
    android:text="CheckBox"
    app:layout_constraintBottom_toTopOf="@+id/button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.051"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/frameLayout"
    app:layout_constraintVertical_bias="0.577" />

```

```

</androidx.constraintlayout.widget.ConstraintLayout>

```

activity\_game

```

<?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:layout_width="match_parent"
android:layout_height="match_parent">
```

```
<TextView
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="gray"
    android:textColor="#009688"
    android:textSize="16sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.453" />
```

```
<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Yes"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/button5"
    app:layout_constraintHorizontal_bias="0.41"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.581" />
```

```
<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="No"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.823"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.581" />
```

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

activity\_result

```
<?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:layout_width="match_parent"
    android:layout_height="match_parent">

    <Button
        android:id="@+id/button6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="116dp"
        android:text="Exit"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent" />

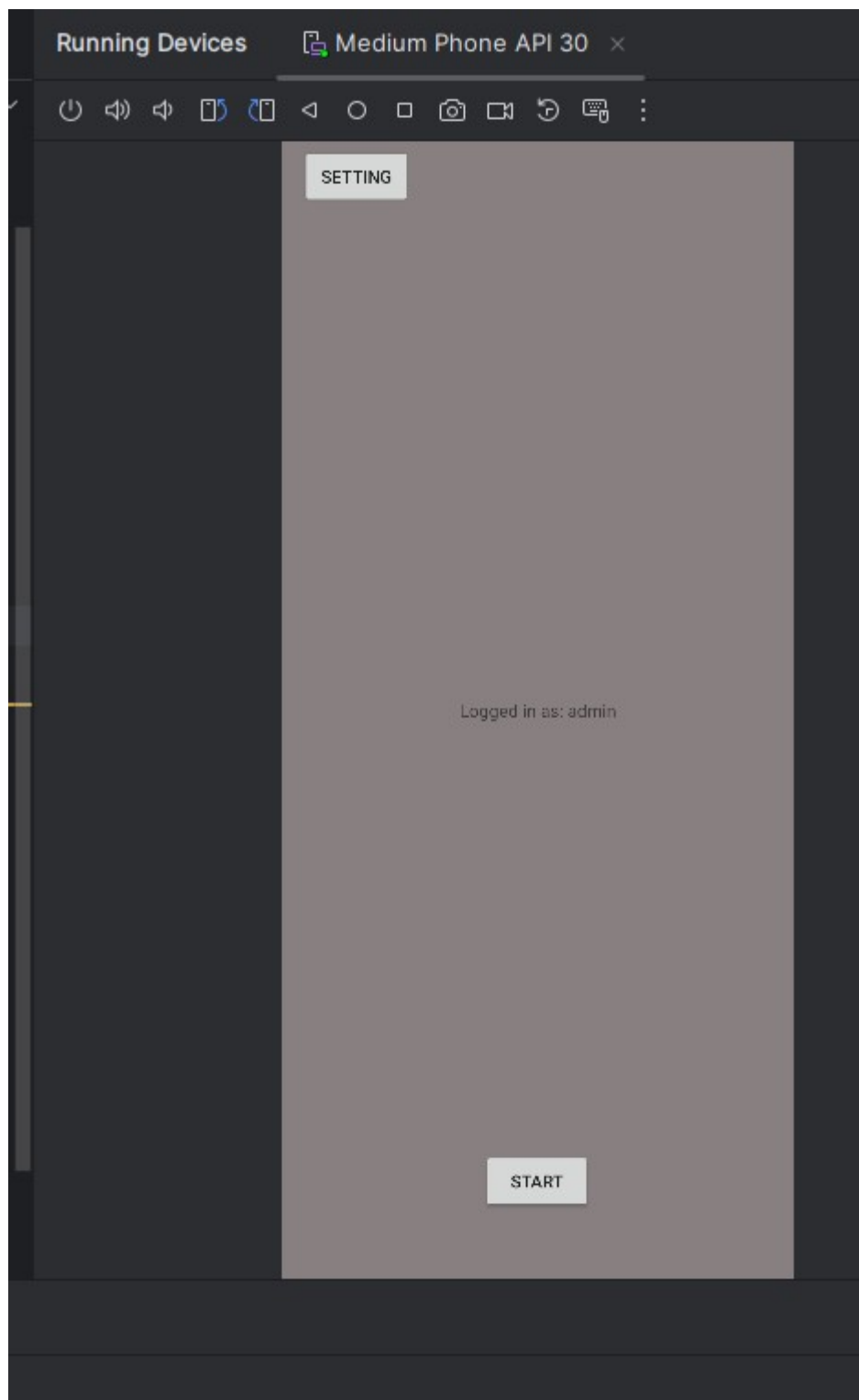
    <TextView
        android:id="@+id/resultTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

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

admin

.....

SUBMIT



## Setting

Change name

karina

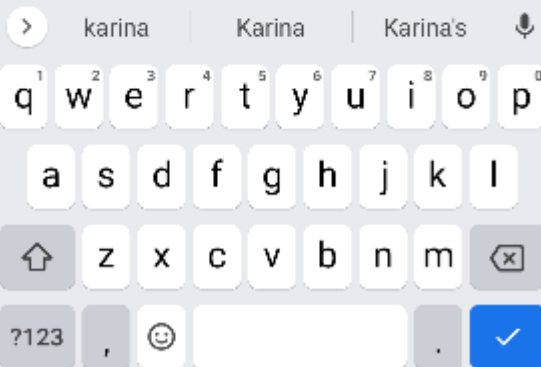
Visible or not

☒ Yes

My ip

☒ CheckBox

192.168.0.1





SETTING

Logged in as: karina

START

