МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ

ЗАПОРІЗЬКИЙ НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ

МЕТЕМАТИЧНИЙ ФАКУЛЬТЕТ

КАФЕДРА ПРОГРАМНОЇ ІНЖЕНЕРІЇ

Дисципліна «Мови програмування мобільних пристроїв»

Лабораторна робота № 3

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Запоріжжя

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https://github.com/Sokolova2/mob-device

MainActivity

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| 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

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| 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

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| 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

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| 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

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| 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

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| <?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

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| <?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

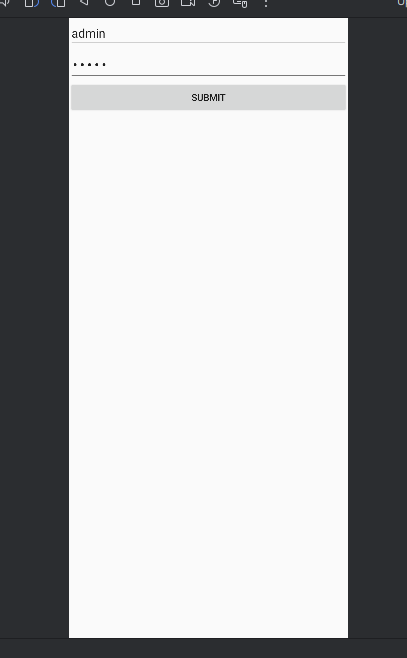
|  |
| --- |
| <?xml version="1.0" encoding="utf-8"?>  <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:layout\_width="match\_parent"  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

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| --- |
| <?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

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| <?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> |

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