

Android fejlesztés

Felhasználói felületi elemek

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Miről volt szó az előző alkalommal?

- Kotlin emlékeztető
- Alkalmazás komponensek
- Felhasználói felület tervezés és eszközök
- Layout-ok
 - > LinearLayout
 - > RelativeLayout
 - > ConstraintLayout
- Egyszerű View elemek

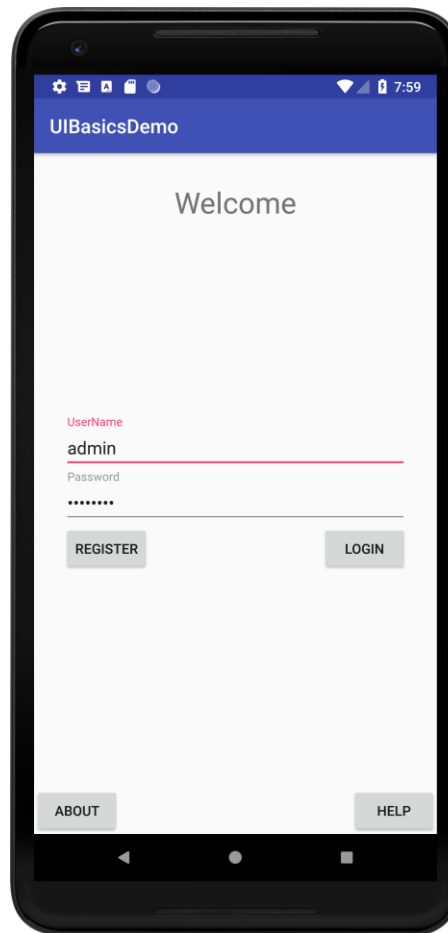
Tartalom

- Login felület
- További nézetek
 - >Checkbox
 - >RadioGroup
 - >Spinner
 - >AutocompleteTextView
 - >WebView

Házi feladat



- Készítsünk egy Login képernyőt



RadioButton - demo

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_margin="20dp"
    tools:context=".MainActivity">

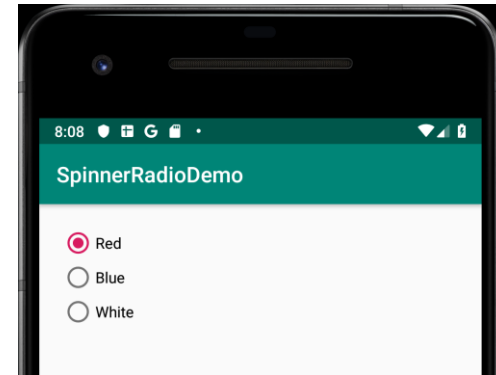
    <RadioGroup
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="vertical">

        <RadioButton
            android:id="@+id/btnRed"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:checked="true"
            android:text="Red" />

        <RadioButton
            android:id="@+id/btnBlue"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Blue" />

        <RadioButton
            android:id="@+id/btnWhite"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="White" />

    </RadioGroup>
</LinearLayout>
```



```
class MainActivity : AppCompatActivity() {

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

        btnRed.setOnClickListener{
            Toast.makeText(this@MainActivity,
                "Red", Toast.LENGTH_LONG).show()
        }
        btnBlue.setOnClickListener{
            Toast.makeText(this@MainActivity,
                "Blue", Toast.LENGTH_LONG).show()
        }
        btnWhite.setOnClickListener{
            Toast.makeText(this@MainActivity,
                "White", Toast.LENGTH_LONG).show()
        }
    }
}
```

Spinner - demo

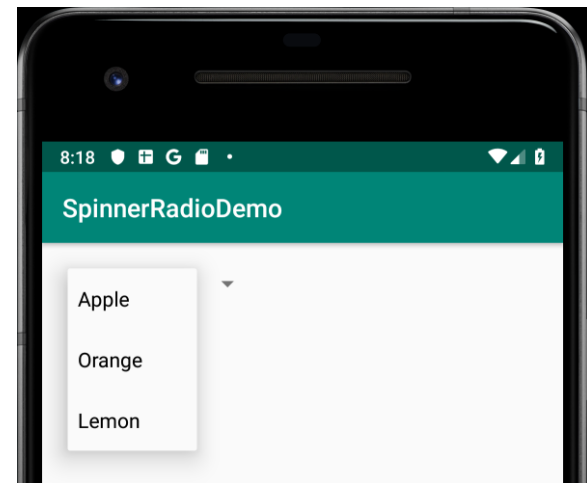
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_margin="20dp"
    tools:context=".MainActivity">

    <Spinner
        android:id="@+id/spinnerFruits"
        android:layout_width="150dp"
        android:layout_height=
            "wrap_content" />

</LinearLayout>
```

res/values/fruits_array.xml:

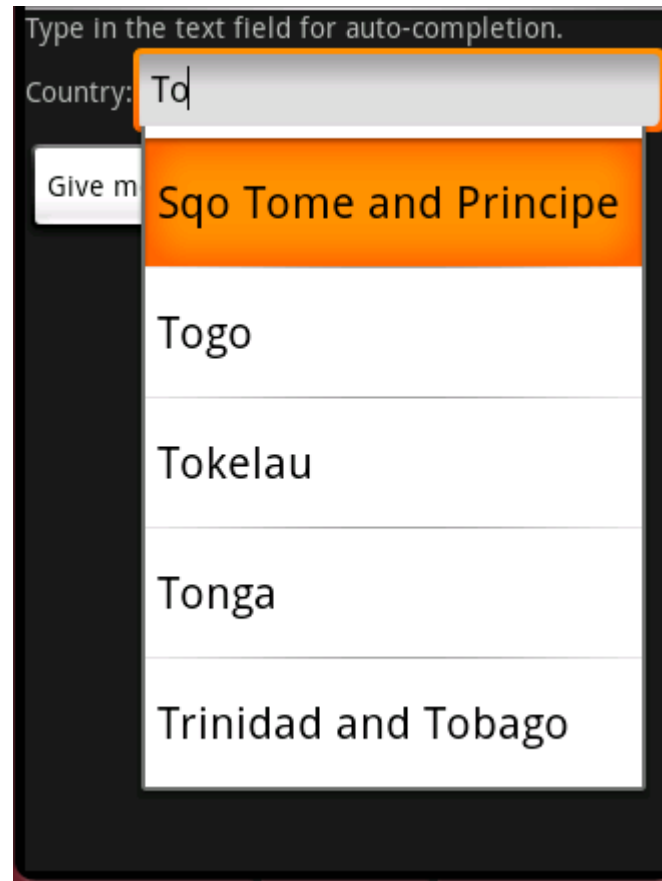
```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string-array name="fruits_array">
        <item>Apple</item>
        <item>Orange</item>
        <item>Lemon</item>
    </string-array>
</resources>
```



```
class MainActivity : AppCompatActivity(),
    AdapterView.OnItemClickListener {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val fruitsAdapter = ArrayAdapter.createFromResource(
            this,
            R.array.fruits_array, android.R.layout.
                simple_spinner_item
        )
        fruitsAdapter.setDropDownViewResource(
            android.R.layout.simple_spinner_dropdown_item)
        spinnerFruits.adapter = fruitsAdapter
        spinnerFruits.onItemSelectedListener = this
    }
    override fun onNothingSelected(parent: AdapterView<*>?) {
    }
    override fun onItemSelected(parent: AdapterView<*>?,
        view: View?, position: Int, id: Long) {
        Toast.makeText(this, parent.getItemAtPosition(
            position).toString(), Toast.LENGTH_LONG).show()
    }
}
```

AutoCompleteTextView 1/3



AutoCompleteTextView 2/3

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

    android:layout_width="fill_parent"

    android:layout_height="fill_parent"

    android:orientation="vertical" >

    <AutoCompleteTextView

        android:id="@+id/autoCompleteTextViewCities"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:text="" >

        <requestFocus />

    </AutoCompleteTextView>

</LinearLayout>
```


AutoCompleteTextView 3/3

```
class MainActivity : AppCompatActivity() {  
  
    private val cityNames = arrayOf("Budapest", "Bukarest", "New  
York", "New Delhi")  
  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_main)  
  
        val cityAdapter = ArrayAdapter(  
            this,  
            android.R.layout.simple_dropdown_item_1line, cityNames  
        )  
        autoCompleteTextViewCities.setAdapter(cityAdapter)  
  
    }  
  
}
```

WebView 1/2

- Weboldalak/HTML tartalom beágyazása mobil alkalmazásba

- Engedély:

```
> <uses-permission android:name="android.permission.INTERNET"/>
```

- XML erőforrás:

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<WebView xmlns:android=
```

```
    "http://schemas.android.com/apk/res/android"
```

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

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

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

WebView 2/2

- Vezérlés az Activity-ből:

```
Override. fun void onCreate( savedInstanceState:
Bundle?) {

    super.onCreate(savedInstanceState)

    setContentView(R.layout.main)

    webView.getSettings().
        setBuiltInZoomControls(true)

    webView.loadUrl(
        "https://aut.bme.hu")
}
```

Köszönöm a figyelmet!

[illegible]

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