# ViewBinding

```
buildFeatures {
   viewBinding true
}
```

```
private lateinit var binding: ActivityMainBinding
binding = ActivityMainBinding.inflate(layoutInflater)
setContentView(binding.root)
```

# **Poznamky**

- Activity (UI + logic), Views (komponenty), Intents (event + data), Fragments (reusable UI, komunikace pres Intents / rodice)
- Sprava kamery a opravneni pres Intent -> MediaStore -> resolveActivity
  - Vyzkouset CameraX a porovnat s predeslou implementaci
- Kotlin
- Layout XML kompozici, todo: vyzkouset Compose
- Permissions
- Googli API

# Google API & ML Kit from Firebase

```
Stahnuti google-services.json a vlozeni do app scopu
build.gradle app level - added implementations
```

https://console.firebase.google.com/project/bp-slechta/overview

### Generovani Firebase Gradle dependencies:



Android package name: cz.zcu.students.slechta, App nickname: BP

- Download and then add config file
- 3 Add Firebase SDK

Instructions for Gradle | Unity C++

 To make the google-services. json config values accessible to Firebase SDKs, you need the Google services Gradle plugin.

Add the plugin as a buildscript dependency to your project-level build.gradle file:

Root-level (project-level) Gradle file (<project>/build.gradle):

```
buildscript {
  repositories {
   // Make sure that you have the following two repositories
   google() // Google's Maven repository
   mavenCentral() // Maven Central repository
 dependencies {
   // Add the dependency for the Google services Gradle plugin
   classpath 'com.google.gms:google-services:4.3.13'
                                                                        \Box
}
allprojects {
  repositories {
   // Make sure that you have the following two repositories
   google() // Google's Maven repository
   mavenCentral() // Maven Central repository
}
```

```
2. Then, in your module (app-level) build.gradle file, add both the google-services plugin and any
  Firebase SDKs that you want to use in your app:
       Java
               Kotlin
  Module (app-level) Gradle file (<project>/<app-module>/build.gradle):
    plugins {
                                                                                       \Box
       id 'com.android.application'
       // Add the Google services Gradle plugin
       id 'com.google.gms.google-services'
    dependencies {
       // Import the Firebase BoM
       implementation platform('com.google.firebase:firebase-bom:31.1.0')
                                                                                      \Box
       // TODO: Add the dependencies for Firebase products you want to use
       // When using the BoM, don't specify versions in Firebase dependencies
       implementation 'com.google.firebase:firebase-analytics-ktx'
       // Add the dependencies for any other desired Firebase products
       // https://firebase.google.com/docs/android/setup#available-libraries
  By using the Firebase Android BoM, your app will always use compatible Firebase library versions. Learn more [7]
3. After adding the plugin and the desired SDKs, sync your Android project with Gradle files.
```

### Prace s resources

```
colors, strings, themes, drawable, layout, ...
```

# Prace s Manifest souborem - opravneni

```
manifest - pridani CAMERA a NETWORK opravneni
```

# SO: setOnClickListener - kotlin syntax

There are six ways to use setOnClickListener:

First:

```
button.setOnClickListener {
    // Do some work here
}
```

Second:

```
button.setOnClickListener(object : View.OnClickListener {
    override fun onClick(view: View?) {
        // Do some work here
    }
}
```

Third:

Fourth:

Fifth:

```
class MainActivity : AppCompatActivity(){
    lateinit var button : Button

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        button = findViewById(R.id.button1)
        button.setOnClickListener(listener)
```

### Sixth

```
button.setOnClickListener { view ->
    // Do some work here
}
```