



Izrada aplikacija za mobilne uređaje

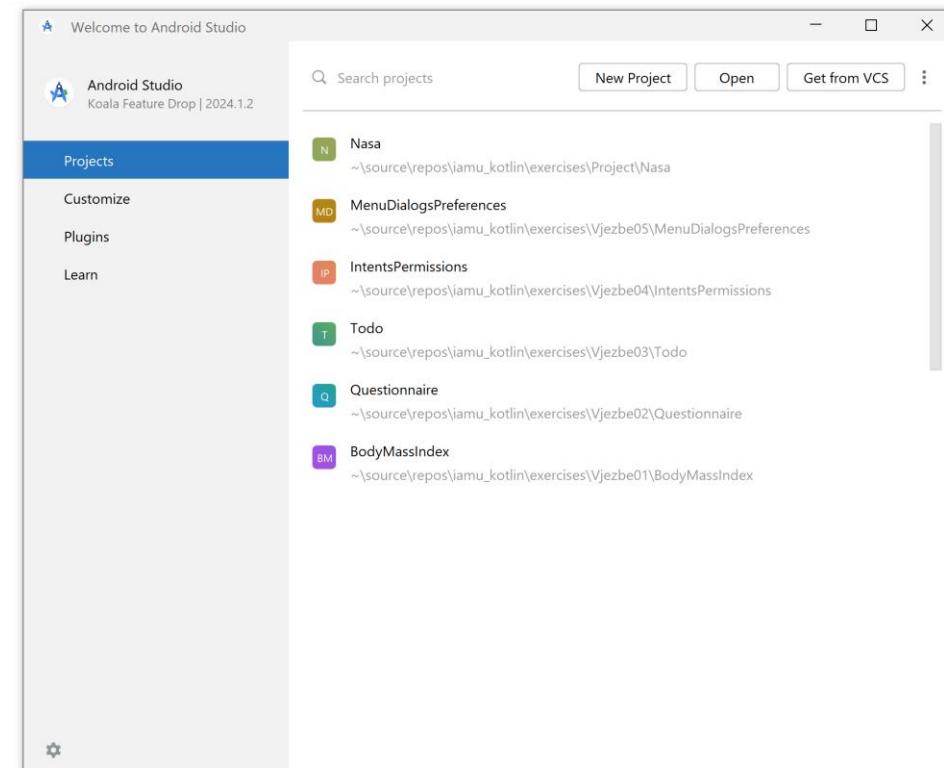
Razvoj aplikacije i resursi

Teme

- Kreiranje projekta
- Struktura projekta
- Resursi
- Manifest
- Gradle (build.gradle)
- Build
- Install

Kreiranje projekta

1. Quick Start - Start a new Android Studio Project
2. Otvara se čarobnjak
3. Definiranje tipa aktivnosti
4. Definiranje naziva,
paketa, lokacije, jezika,
minimalne platforme



New Project

X

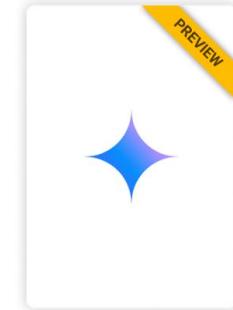
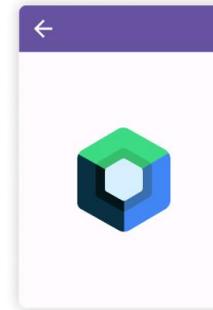
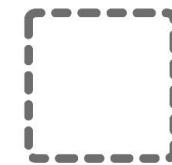
Templates

Phone and Tablet

Wear OS

Television

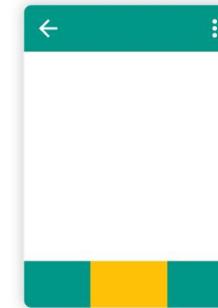
Automotive



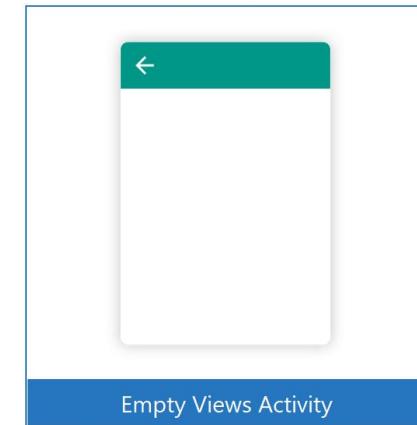
No Activity



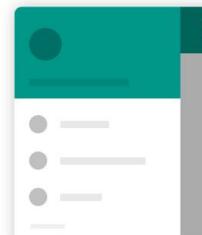
Empty Activity



Gemini API Starter



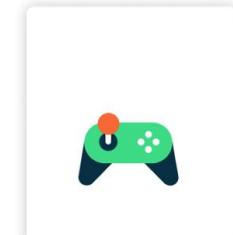
Basic Views Activity



Bottom Navigation Views Activity



Empty Views Activity



Previous

Next

Cancel

Finish



New Project



Empty Views Activity

Creates a new empty activity

Name

Resources

Package name

hr.algebra.resources

Save location

C:\Users\daniel.bele\source\repos\iamu_kotlin\lectures\Predavanje02\Resources



Language

Kotlin

Minimum SDK

API 26 ("Oreo"; Android 8.0)

Your app will run on approximately **95,4%** of devices.

[Help me choose](#)

Build configuration language

Kotlin DSL (build.gradle.kts) [Recommended]

Previous

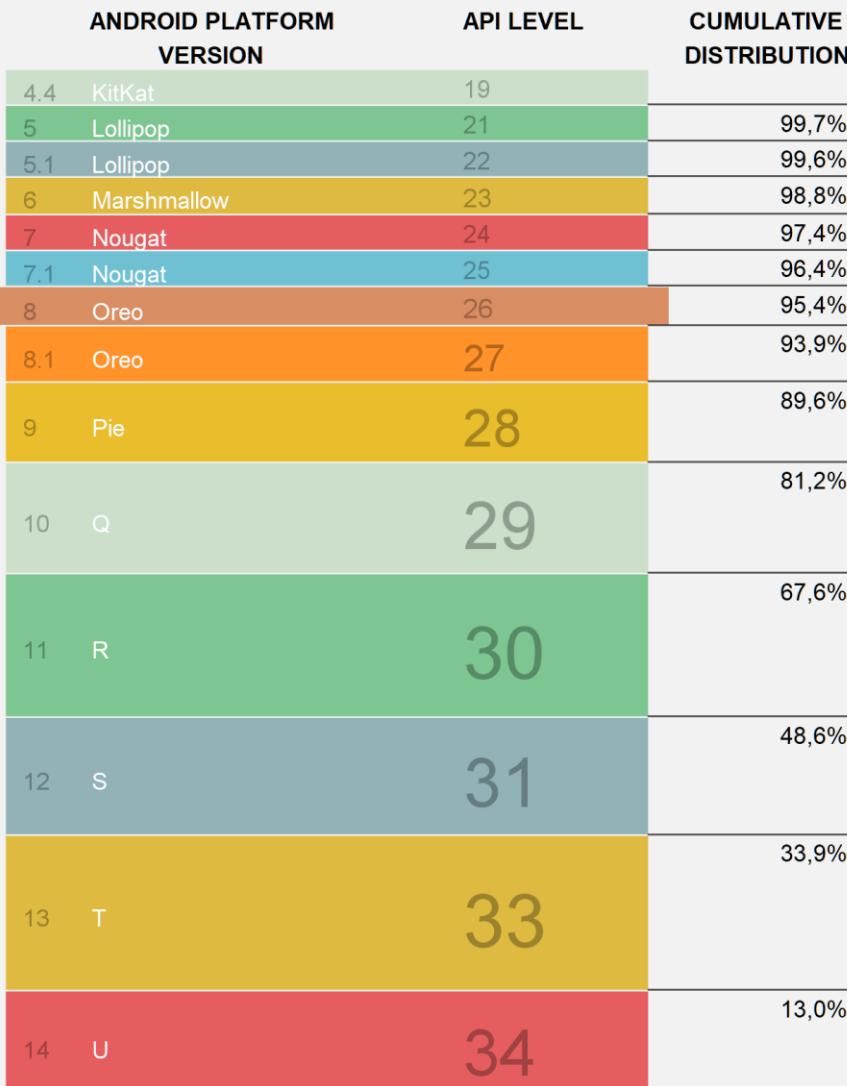
Next

Cancel

Finish

A Android Platform/API Version Distribution

X



Last updated: May 1, 2024

Oreo

System

- Custom data store
- JobScheduler improvements
- Cached data

User Interface

- Picture-in-Picture mode
- Improved Notifications
- Autofill framework
- Downloadable fonts
- Multi-display support
- Adaptive icons

Media

- VolumeShaper
- Audio focus enhancements
- Media metrics
- MediaPlayer and MediaRecorder improvements
- Improved media file access

Wireless & Connectivity

- Wi-Fi Aware
- Bluetooth updates
- Companion device pairing

Security & Privacy

- New permissions
- New account access and discovery APIs

Runtime & Tools

- Platform optimizations
- Updated Java language support
- Updated ICU4J Android Framework APIs

OK

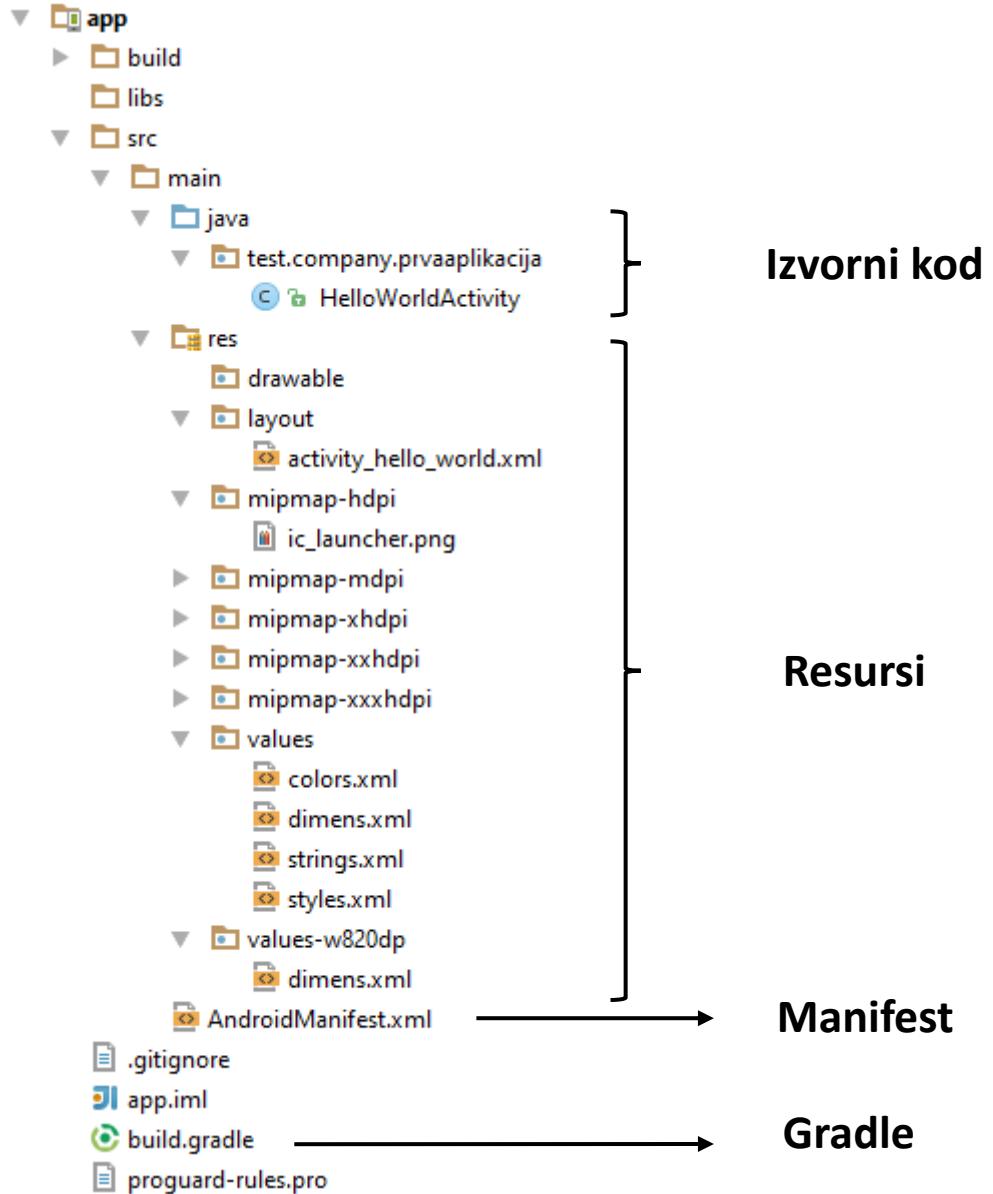
Cancel

<https://developer.android.com/about/versions/oreo/android-8.0>

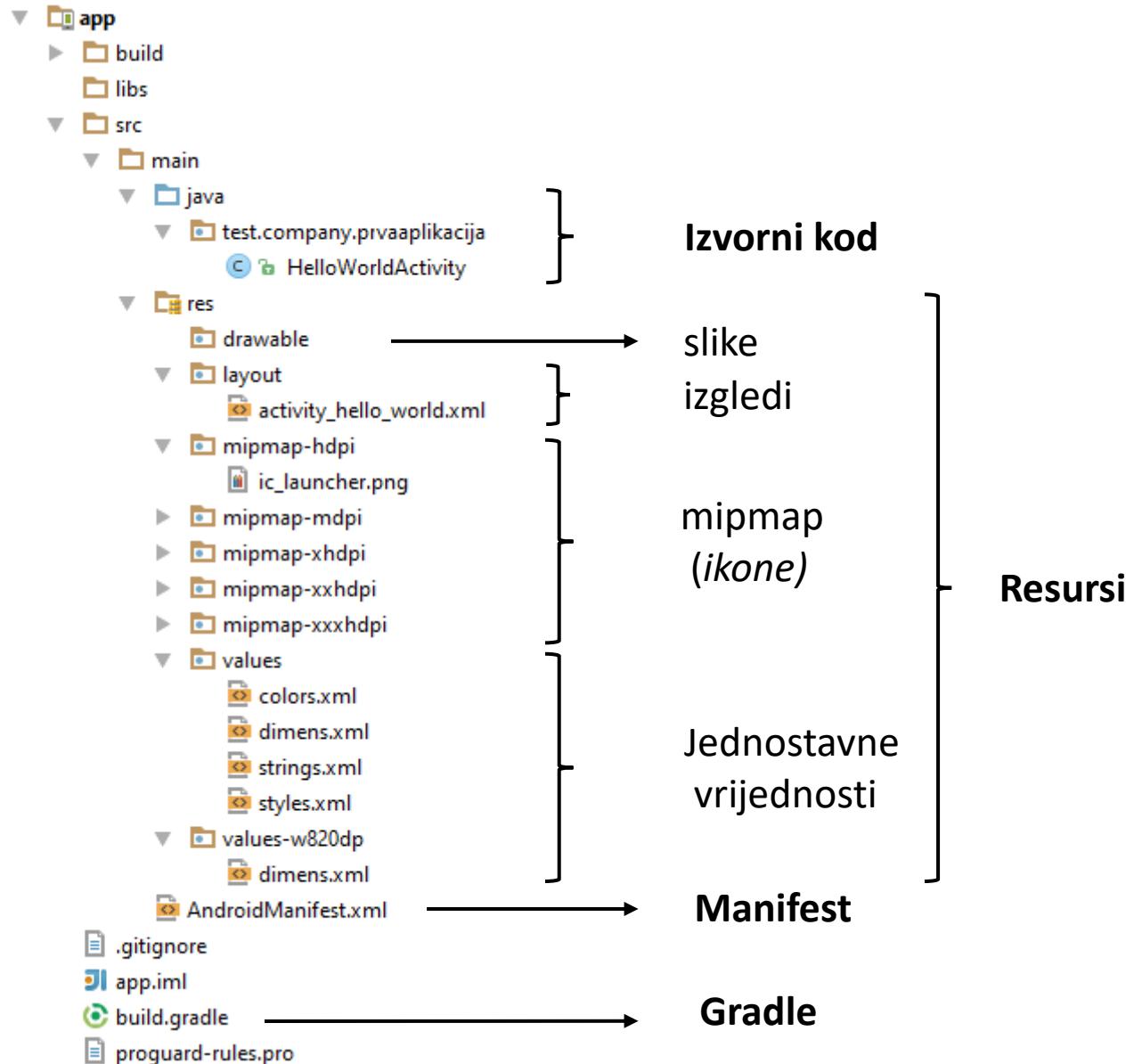
Struktura projekta

1. Resursi
 - a. Jednostavne vrijednosti
 - b. Izgledi
 - c. Slike
2. Izvorni kod
3. Generirani kod
4. Manifest
5. build.gradle

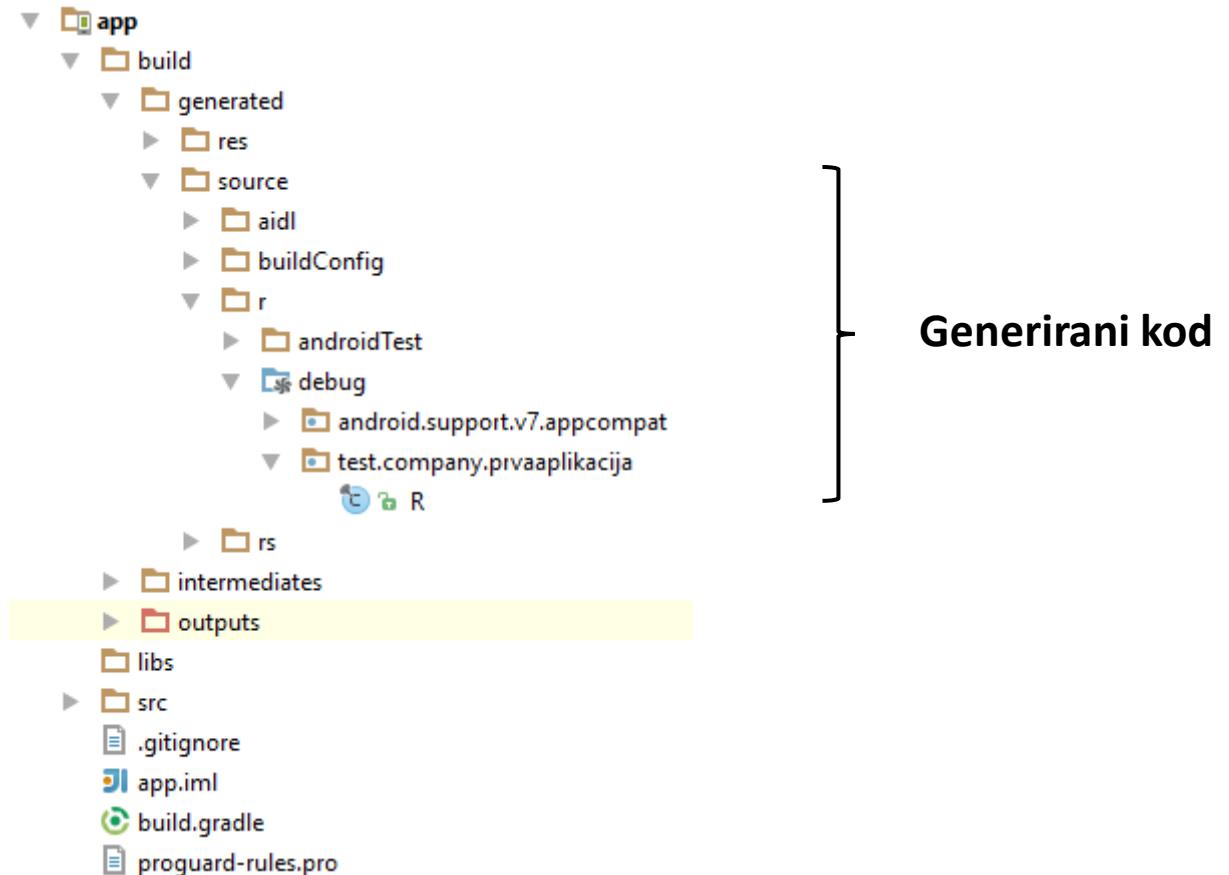
Struktura projekta



Struktura projekta



Struktura projekta



Generirani kod

Manifest

- XML dokument s metapodacima o aplikaciji
- Definira
 - Verziju aplikacije
 - Komponente (aktivnosti, servisi, pružatelji sadržaja)
 - Naziv
 - Klasa
 - Konfiguracija
 - Razine SDK
 - Dozvole
 - Hardverske zahtjeve

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.helloworld"
    android:versionCode="1"
    android:versionName="1.0" >
    <uses-sdk android:minSdkVersion="8" android:targetSdkVersion="21" />
    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name=".HelloWorldActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

Verzija aplikacije

Razina SDK

Ikona
Naziv aplikacije
Tema

Klasa

Naslov

SDK

- Minimum SDK
 - Minimalna razina API-ja **na kojoj se može izvršavati** aplikacija
- Target SDK
 - Ciljana razina API-ja **za koju se** aplikacija **dizajnira**
- Maximum SDK
 - Maksimalna razina API-ja **na kojoj se može izvršavati** aplikacija
- Compile With (Build) SDK
 - Razina API-ja **s kojom se razvija** aplikacija

Gradle (build.gradle)

- sustav za izgradnju aplikacija
 - *automated build toolkit*
- omogućuje
 - postavljanje zavisnosti (engl. dependencies)
 - brzu konfiguraciju
 - testiranje
 - potpisivanje
 - generiranje više APK-ova



```
plugins {
    alias(libs.plugins.android.application)
    alias(libs.plugins.kotlin.android)
}

android {
    namespace = "hr.algebra.resources"
    compileSdk = 34

    defaultConfig {
        applicationId = "hr.algebra.resources"
        minSdk = 26
        targetSdk = 34
        versionCode = 1
        versionName = "1.0"

        testInstrumentationRunner = "androidx.test.runner.AndroidJUnitRunner"
    }

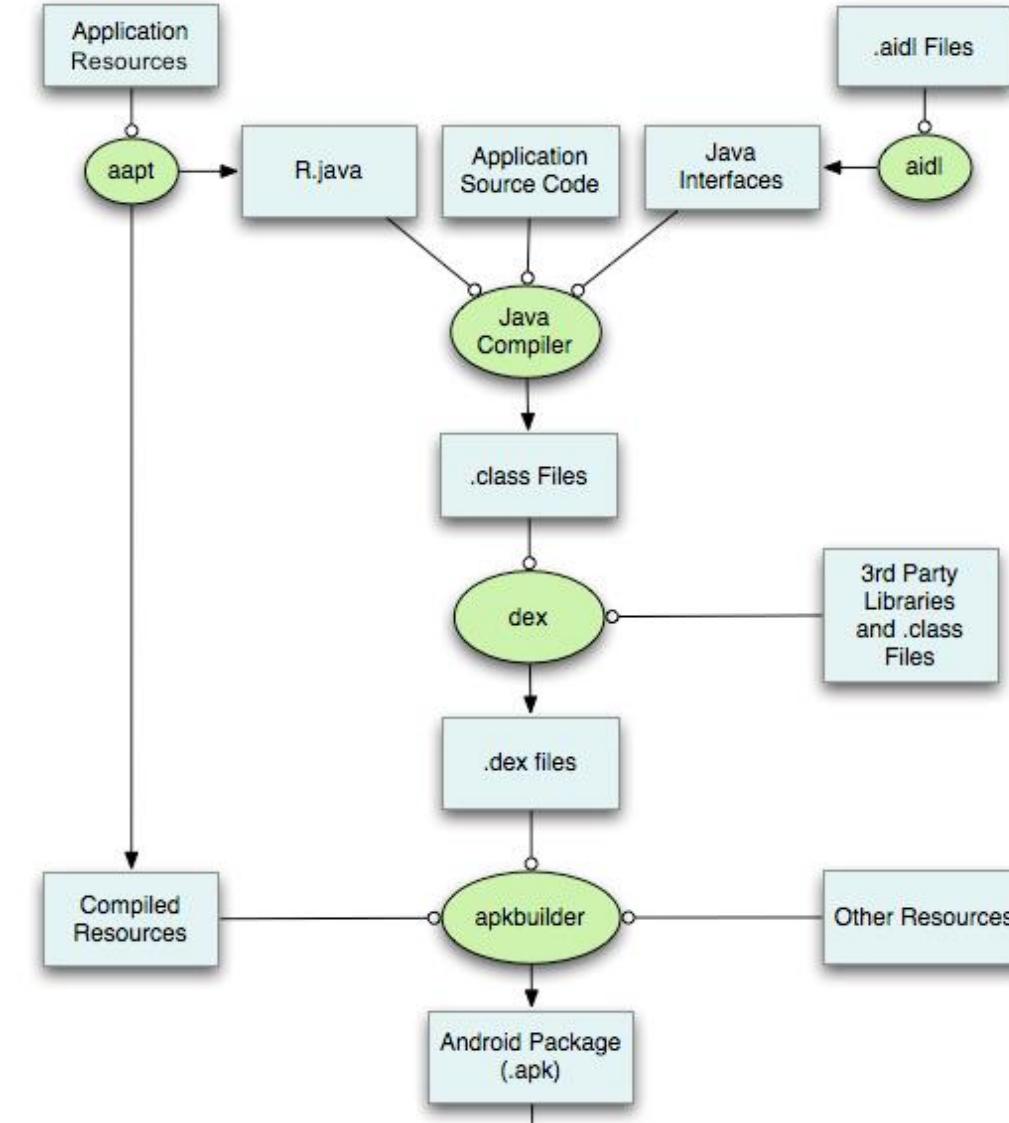
    buildTypes {
        release {
            isMinifyEnabled = false
            proguardFiles(
                getDefaultProguardFile("proguard-android-optimize.txt"),
                "proguard-rules.pro"
            )
        }
    }
}

compileOptions {
    sourceCompatibility = JavaVersion.VERSION_1_8
    targetCompatibility = JavaVersion.VERSION_1_8
}

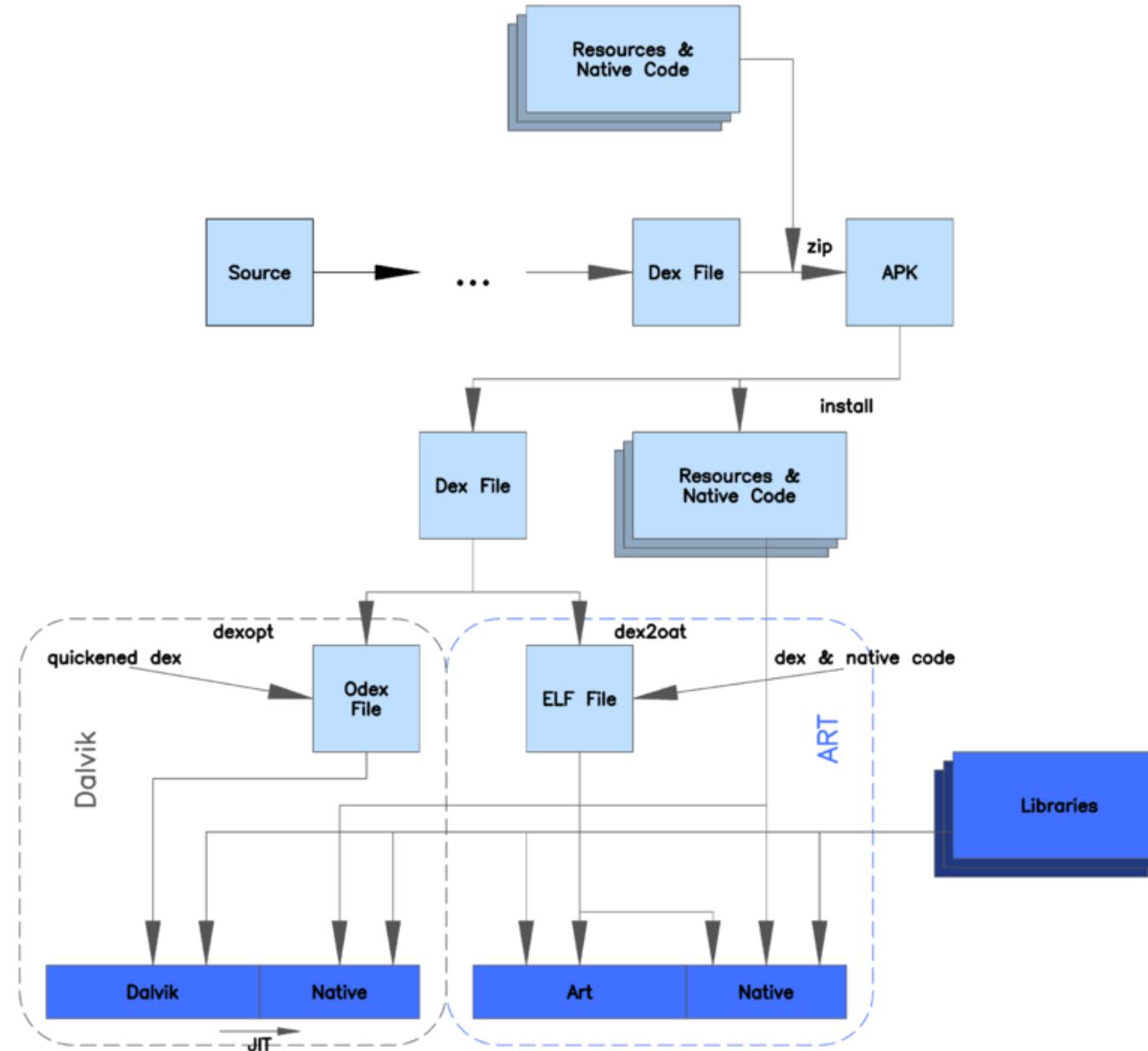
kotlinOptions {
    jvmTarget = "1.8"
}

dependencies {
    implementation(libs.androidx.core.ktx)
    implementation(libs.androidx.appcompat)
    implementation(libs.material)
    implementation(libs.androidx.activity)
    implementation(libs.androidx.constraintlayout)
    testImplementation(libs.junit)
    androidTestImplementation(libs.androidx.junit)
    androidTestImplementation(libs.androidx.espresso.core)
}
```

Build



Install



Demo

- Resources app



Izvor:<http://www.jnhsolutions.com/contact-us/request-a-demo/>



Hvala na pažnji!