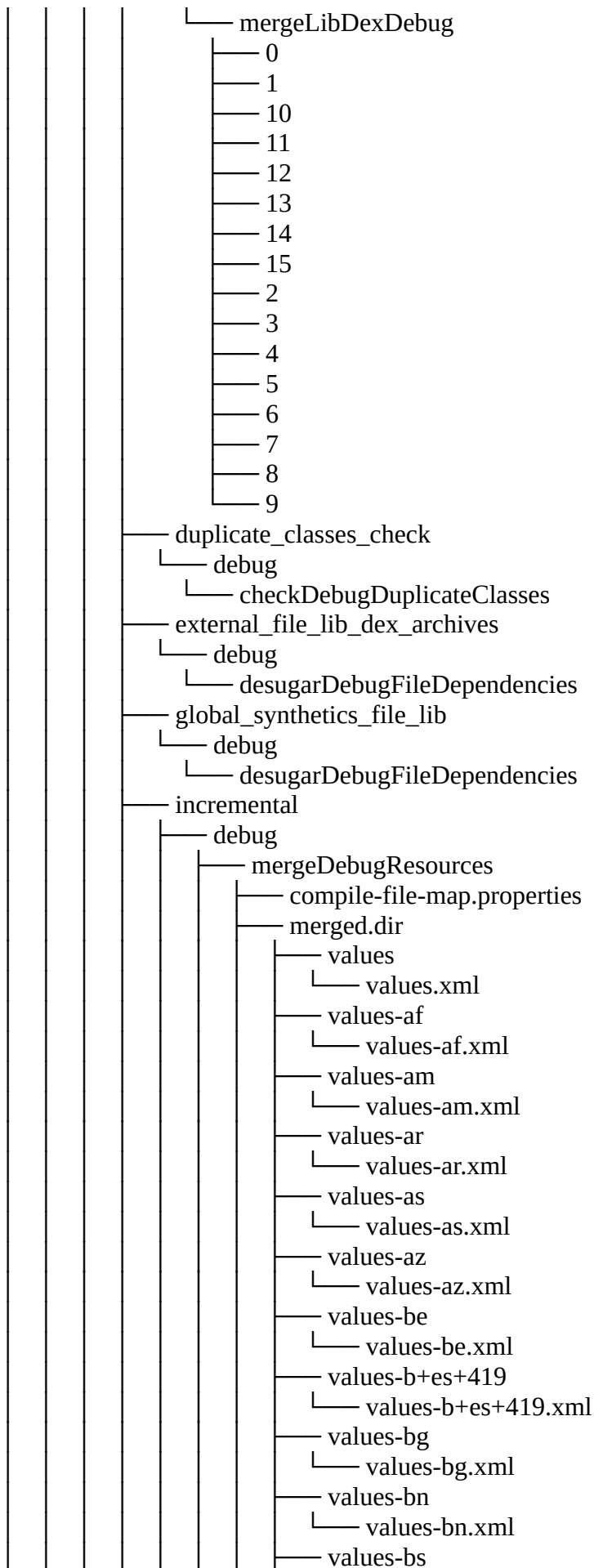


Asi esta el orden jerárquico de mi aplicación:

~/Escritorio/Taller\_De\_Computación/Android  
\_studio/TuxFly\$ tree -a

```
.
├── app
│   ├── build
│   │   ├── generated
│   │   │   ├── res
│   │   │   │   ├── pngs
│   │   │   │   │   └── debug
│   │   │   │   ├── resValues
│   │   │   │   │   └── debug
│   │   └── intermediates
│   │       ├── aar_metadata_check
│   │       │   ├── debug
│   │       │   │   └── checkDebugAarMetadata
│   │       ├── annotation_processor_list
│   │       │   ├── debug
│   │       │   │   └── javaPreCompileDebug
│   │       │       └── annotationProcessors.json
│   │       ├── app_metadata
│   │       │   ├── debug
│   │       │   │   ├── writeDebugAppMetadata
│   │       │   │   └── app-metadata.properties
│   │       ├── assets
│   │       │   ├── debug
│   │       │   │   └── mergeDebugAssets
│   │       ├── compatible_screen_manifest
│   │       │   ├── debug
│   │       │   │   ├── createDebugCompatibleScreenManifests
│   │       │   │   └── output-metadata.json
│   │       ├── compile_and_runtime_not_namespaced_r_class_jar
│   │       │   ├── debug
│   │       │   │   ├── processDebugResources
│   │       │   │   └── R.jar
│   │       ├── compressed_assets
│   │       │   ├── debug
│   │       │   │   ├── compressDebugAssets
│   │       │   │   └── out
│   │       ├── data_binding_layout_info_type_merge
│   │       │   ├── debug
│   │       │   │   └── mergeDebugResources
│   │       │       └── out
│   │       ├── data_binding_layout_info_type_package
│   │       │   ├── debug
│   │       │   │   ├── packageDebugResources
│   │       │   │   └── out
│   │       ├── dex
│   │       │   ├── debug
│   │       │   │   ├── mergeExtDexDebug
│   │       │   │   └── classes.dex
```



|  |  |  |  |  |  |  |                               |                  |
|--|--|--|--|--|--|--|-------------------------------|------------------|
|  |  |  |  |  |  |  |                               | └─ values-bs.xml |
|  |  |  |  |  |  |  | └─ values-b+sr+Latn           |                  |
|  |  |  |  |  |  |  | └─ values-b+sr+Latn.xml       |                  |
|  |  |  |  |  |  |  | └─ values-ca                  |                  |
|  |  |  |  |  |  |  | └─ values-ca.xml              |                  |
|  |  |  |  |  |  |  | └─ values-cs                  |                  |
|  |  |  |  |  |  |  | └─ values-cs.xml              |                  |
|  |  |  |  |  |  |  | └─ values-da                  |                  |
|  |  |  |  |  |  |  | └─ values-da.xml              |                  |
|  |  |  |  |  |  |  | └─ values-de                  |                  |
|  |  |  |  |  |  |  | └─ values-de.xml              |                  |
|  |  |  |  |  |  |  | └─ values-el                  |                  |
|  |  |  |  |  |  |  | └─ values-el.xml              |                  |
|  |  |  |  |  |  |  | └─ values-en-rAU              |                  |
|  |  |  |  |  |  |  | └─ values-en-rAU.xml          |                  |
|  |  |  |  |  |  |  | └─ values-en-rCA              |                  |
|  |  |  |  |  |  |  | └─ values-en-rCA.xml          |                  |
|  |  |  |  |  |  |  | └─ values-en-rGB              |                  |
|  |  |  |  |  |  |  | └─ values-en-rGB.xml          |                  |
|  |  |  |  |  |  |  | └─ values-en-rIN              |                  |
|  |  |  |  |  |  |  | └─ values-en-rIN.xml          |                  |
|  |  |  |  |  |  |  | └─ values-en-rXC              |                  |
|  |  |  |  |  |  |  | └─ values-en-rXC.xml          |                  |
|  |  |  |  |  |  |  | └─ values-es                  |                  |
|  |  |  |  |  |  |  | └─ values-es.xml              |                  |
|  |  |  |  |  |  |  | └─ values-es-rUS              |                  |
|  |  |  |  |  |  |  | └─ values-es-rUS.xml          |                  |
|  |  |  |  |  |  |  | └─ values-et                  |                  |
|  |  |  |  |  |  |  | └─ values-et.xml              |                  |
|  |  |  |  |  |  |  | └─ values-eu                  |                  |
|  |  |  |  |  |  |  | └─ values-eu.xml              |                  |
|  |  |  |  |  |  |  | └─ values-fa                  |                  |
|  |  |  |  |  |  |  | └─ values-fa.xml              |                  |
|  |  |  |  |  |  |  | └─ values-fi                  |                  |
|  |  |  |  |  |  |  | └─ values-fi.xml              |                  |
|  |  |  |  |  |  |  | └─ values-fr                  |                  |
|  |  |  |  |  |  |  | └─ values-fr.xml              |                  |
|  |  |  |  |  |  |  | └─ values-fr-rCA              |                  |
|  |  |  |  |  |  |  | └─ values-fr-rCA.xml          |                  |
|  |  |  |  |  |  |  | └─ values-gl                  |                  |
|  |  |  |  |  |  |  | └─ values-gl.xml              |                  |
|  |  |  |  |  |  |  | └─ values-gu                  |                  |
|  |  |  |  |  |  |  | └─ values-gu.xml              |                  |
|  |  |  |  |  |  |  | └─ values-h320dp-port-v13     |                  |
|  |  |  |  |  |  |  | └─ values-h320dp-port-v13.xml |                  |
|  |  |  |  |  |  |  | └─ values-h360dp-land-v13     |                  |
|  |  |  |  |  |  |  | └─ values-h360dp-land-v13.xml |                  |
|  |  |  |  |  |  |  | └─ values-h480dp-land-v13     |                  |
|  |  |  |  |  |  |  | └─ values-h480dp-land-v13.xml |                  |
|  |  |  |  |  |  |  | └─ values-h550dp-port-v13     |                  |
|  |  |  |  |  |  |  | └─ values-h550dp-port-v13.xml |                  |
|  |  |  |  |  |  |  | └─ values-h720dp-v13          |                  |

[illegible]

[illegible]

|  |  |  |  |  |  |  |  |                               |                  |
|--|--|--|--|--|--|--|--|-------------------------------|------------------|
|  |  |  |  |  |  |  |  |                               | └─ values-ta.xml |
|  |  |  |  |  |  |  |  | └─ values-te                  |                  |
|  |  |  |  |  |  |  |  | └─ values-te.xml              |                  |
|  |  |  |  |  |  |  |  | └─ values-th                  |                  |
|  |  |  |  |  |  |  |  | └─ values-th.xml              |                  |
|  |  |  |  |  |  |  |  | └─ values-tl                  |                  |
|  |  |  |  |  |  |  |  | └─ values-tl.xml              |                  |
|  |  |  |  |  |  |  |  | └─ values-tr                  |                  |
|  |  |  |  |  |  |  |  | └─ values-tr.xml              |                  |
|  |  |  |  |  |  |  |  | └─ values-uk                  |                  |
|  |  |  |  |  |  |  |  | └─ values-uk.xml              |                  |
|  |  |  |  |  |  |  |  | └─ values-ur                  |                  |
|  |  |  |  |  |  |  |  | └─ values-ur.xml              |                  |
|  |  |  |  |  |  |  |  | └─ values-uz                  |                  |
|  |  |  |  |  |  |  |  | └─ values-uz.xml              |                  |
|  |  |  |  |  |  |  |  | └─ values-v16                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v16.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v17                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v17.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v18                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v18.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v21                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v21.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v22                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v22.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v23                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v23.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v24                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v24.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v25                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v25.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v26                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v26.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v28                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v28.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-v31                 |                  |
|  |  |  |  |  |  |  |  | └─ values-v31.xml             |                  |
|  |  |  |  |  |  |  |  | └─ values-vi                  |                  |
|  |  |  |  |  |  |  |  | └─ values-vi.xml              |                  |
|  |  |  |  |  |  |  |  | └─ values-w320dp-land-v13     |                  |
|  |  |  |  |  |  |  |  | └─ values-w320dp-land-v13.xml |                  |
|  |  |  |  |  |  |  |  | └─ values-w360dp-port-v13     |                  |
|  |  |  |  |  |  |  |  | └─ values-w360dp-port-v13.xml |                  |
|  |  |  |  |  |  |  |  | └─ values-w400dp-port-v13     |                  |
|  |  |  |  |  |  |  |  | └─ values-w400dp-port-v13.xml |                  |
|  |  |  |  |  |  |  |  | └─ values-w600dp-land-v13     |                  |
|  |  |  |  |  |  |  |  | └─ values-w600dp-land-v13.xml |                  |
|  |  |  |  |  |  |  |  | └─ values-watch-v20           |                  |
|  |  |  |  |  |  |  |  | └─ values-watch-v20.xml       |                  |
|  |  |  |  |  |  |  |  | └─ values-watch-v21           |                  |
|  |  |  |  |  |  |  |  | └─ values-watch-v21.xml       |                  |
|  |  |  |  |  |  |  |  | └─ values-xlarge-v4           |                  |

- values-xlarge-v4.xml
            - values-zh-rCN
            - values-zh-rCN.xml
            - values-zh-rHK
            - values-zh-rHK.xml
            - values-zh-rTW
            - values-zh-rTW.xml
            - values-zu
            - values-zu.xml
          - merger.xml
          - stripped.dir
        - packageDebugResources
          - compile-file-map.properties
          - merged.dir
            - values
              - values.xml
          - merger.xml
          - stripped.dir
        - mergeDebugAssets
          - merger.xml
        - mergeDebugJniLibFolders
          - merger.xml
        - mergeDebugShaders
          - merger.xml
        - processDebugResources
          - resources-list-for-linked-resources-binary-format-debug.ap\_.txt
      - linked\_resources\_binary\_format
        - debug
          - processDebugResources
            - linked-resources-binary-format-debug.ap\_
              - output-metadata.json
      - local\_only\_symbol\_list
        - debug
          - parseDebugLocalResources
            - R-def.txt
      - manifest\_merge\_blame\_file
        - debug
          - processDebugMainManifest
            - manifest-merger-blame-debug-report.txt
      - merged\_jni\_libs
        - debug
          - mergeDebugJniLibFolders
            - out
      - merged\_manifest
        - debug
          - processDebugMainManifest
            - AndroidManifest.xml
      - merged\_manifests
        - debug
          - processDebugManifest
            - AndroidManifest.xml
            - output-metadata.json

merged\_res

└─ debug

└─ mergeDebugResources

└─ drawable\_ic\_launcher\_background.xml.flat

└─ drawable\_ic\_launcher\_foreground.xml.flat

└─ drawable\_logo\_ufro.png.flat

└─ drawable\_pipe.png.flat

└─ drawable\_tux\_frame1.png.flat

└─ drawable\_tux\_frame2.png.flat

└─ drawable\_tux\_frame3.png.flat

└─ drawable\_tux\_frame4.png.flat

└─ layout\_activity\_main.xml.flat

└─ mipmap-anydpi-v26\_ic\_launcher\_round.xml.flat

└─ mipmap-anydpi-v26\_ic\_launcher.xml.flat

└─ mipmap-hdpi\_ic\_launcher\_round.webp.flat

└─ mipmap-hdpi\_ic\_launcher.webp.flat

└─ mipmap-mdpi\_ic\_launcher\_round.webp.flat

└─ mipmap-mdpi\_ic\_launcher.webp.flat

└─ mipmap-xhdpi\_ic\_launcher\_round.webp.flat

└─ mipmap-xhdpi\_ic\_launcher.webp.flat

└─ mipmap-xxhdpi\_ic\_launcher\_round.webp.flat

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└─ mipmap-xxxhdpi\_ic\_launcher\_round.webp.flat

└─ mipmap-xxxhdpi\_ic\_launcher.webp.flat

└─ raw\_boton\_tuxfly.wav.flat

└─ raw\_choque\_tuxfly.wav.flat

└─ raw\_musica\_fondo\_tux.mp3.flat

└─ values-af\_values-af.arsc.flat

└─ values-am\_values-am.arsc.flat

└─ values-ar\_values-ar.arsc.flat

└─ values-as\_values-as.arsc.flat

└─ values-az\_values-az.arsc.flat

└─ values-b+es+419\_values-b+es+419.arsc.flat

└─ values-be\_values-be.arsc.flat

└─ values-bg\_values-bg.arsc.flat

└─ values-bn\_values-bn.arsc.flat

└─ values-b+sr+Latn\_values-b+sr+Latn.arsc.flat

└─ values-bs\_values-bs.arsc.flat

└─ values-ca\_values-ca.arsc.flat

└─ values-cs\_values-cs.arsc.flat

└─ values-da\_values-da.arsc.flat

└─ values-de\_values-de.arsc.flat

└─ values-el\_values-el.arsc.flat

└─ values-en-rAU\_values-en-rAU.arsc.flat

└─ values-en-rCA\_values-en-rCA.arsc.flat

└─ values-en-rGB\_values-en-rGB.arsc.flat

└─ values-en-rIN\_values-en-rIN.arsc.flat

└─ values-en-rXC\_values-en-rXC.arsc.flat

└─ values-es-rUS\_values-es-rUS.arsc.flat

└─ values-es\_values-es.arsc.flat

└─ values-et\_values-et.arsc.flat

└─ values-eu\_values-eu.arsc.flat



|  |   |
|--|---|
|  | values-fa_values-fa.arsc.flat                           |
|  | values-fi_values-fi.arsc.flat                           |
|  | values-fr-rCA_values-fr-rCA.arsc.flat                   |
|  | values-fr_values-fr.arsc.flat                           |
|  | values-gl_values-gl.arsc.flat                           |
|  | values-gu_values-gu.arsc.flat                           |
|  | values-h320dp-port-v13_values-h320dp-port-v13.arsc.flat |
|  | values-h360dp-land-v13_values-h360dp-land-v13.arsc.flat |
|  | values-h480dp-land-v13_values-h480dp-land-v13.arsc.flat |
|  | values-h550dp-port-v13_values-h550dp-port-v13.arsc.flat |
|  | values-h720dp-v13_values-h720dp-v13.arsc.flat           |
|  | values-hdpi-v4_values-hdpi-v4.arsc.flat                 |
|  | values-hi_values-hi.arsc.flat                           |
|  | values-hr_values-hr.arsc.flat                           |
|  | values-hu_values-hu.arsc.flat                           |
|  | values-hy_values-hy.arsc.flat                           |
|  | values-in_values-in.arsc.flat                           |
|  | values-is_values-is.arsc.flat                           |
|  | values-it_values-it.arsc.flat                           |
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|  | values-ja_values-ja.arsc.flat                           |
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|  | values-kk_values-kk.arsc.flat                           |
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|  | values-kn_values-kn.arsc.flat                           |
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|  | values-ky_values-ky.arsc.flat                           |
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|  | values-large-v4_values-large-v4.arsc.flat               |
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|  | values-ldrtl-v17_values-ldrtl-v17.arsc.flat             |
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|  | values-lt_values-lt.arsc.flat                           |
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|  | values-ml_values-ml.arsc.flat                           |
|  | values-mn_values-mn.arsc.flat                           |
|  | values-mr_values-mr.arsc.flat                           |
|  | values-ms_values-ms.arsc.flat                           |
|  | values-my_values-my.arsc.flat                           |
|  | values-nb_values-nb.arsc.flat                           |
|  | values-ne_values-ne.arsc.flat                           |
|  | values-night-v8_values-night-v8.arsc.flat               |
|  | values-nl_values-nl.arsc.flat                           |
|  | values-or_values-or.arsc.flat                           |
|  | values-pa_values-pa.arsc.flat                           |
|  | values-pl_values-pl.arsc.flat                           |
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|  | values-pt-rBR_values-pt-rBR.arsc.flat                   |
|  | values-pt-rPT_values-pt-rPT.arsc.flat                   |
|  | values-pt_values-pt.arsc.flat                           |
|  | values-ro_values-ro.arsc.flat                           |

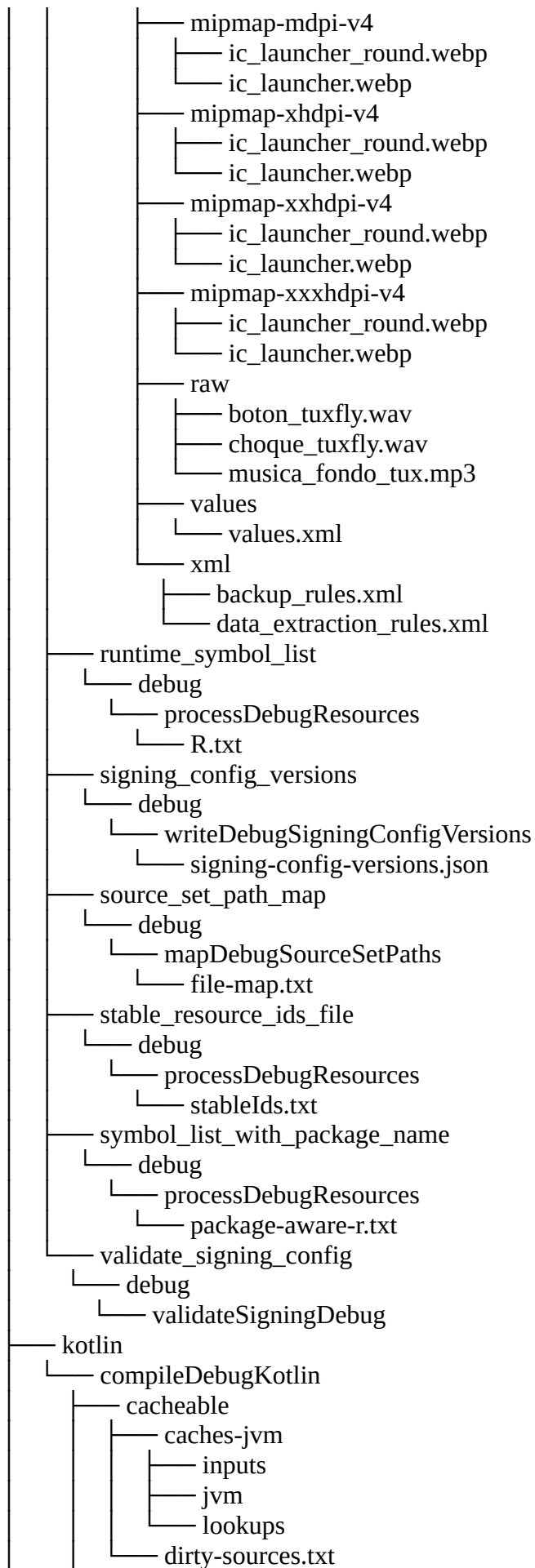
- values-ru\_values-ru.arsc.flat
- values-si\_values-si.arsc.flat
- values-sk\_values-sk.arsc.flat
- values-sl\_values-sl.arsc.flat
- values-small-v4\_values-small-v4.arsc.flat
- values-sq\_values-sq.arsc.flat
- values-sr\_values-sr.arsc.flat
- values-sv\_values-sv.arsc.flat
- values-sw600dp-v13\_values-sw600dp-v13.arsc.flat
- values-sw\_values-sw.arsc.flat
- values-ta\_values-ta.arsc.flat
- values-te\_values-te.arsc.flat
- values-th\_values-th.arsc.flat
- values-tl\_values-tl.arsc.flat
- values-tr\_values-tr.arsc.flat
- values-uk\_values-uk.arsc.flat
- values-ur\_values-ur.arsc.flat
- values-uz\_values-uz.arsc.flat
- values-v16\_values-v16.arsc.flat
- values-v17\_values-v17.arsc.flat
- values-v18\_values-v18.arsc.flat
- values-v21\_values-v21.arsc.flat
- values-v22\_values-v22.arsc.flat
- values-v23\_values-v23.arsc.flat
- values-v24\_values-v24.arsc.flat
- values-v25\_values-v25.arsc.flat
- values-v26\_values-v26.arsc.flat
- values-v28\_values-v28.arsc.flat
- values-v31\_values-v31.arsc.flat
- values\_values.arsc.flat
- values-vi\_values-vi.arsc.flat
- values-w320dp-land-v13\_values-w320dp-land-v13.arsc.flat
- values-w360dp-port-v13\_values-w360dp-port-v13.arsc.flat
- values-w400dp-port-v13\_values-w400dp-port-v13.arsc.flat
- values-w600dp-land-v13\_values-w600dp-land-v13.arsc.flat
- values-watch-v20\_values-watch-v20.arsc.flat
- values-watch-v21\_values-watch-v21.arsc.flat
- values-xlarge-v4\_values-xlarge-v4.arsc.flat
- values-zh-rCN\_values-zh-rCN.arsc.flat
- values-zh-rHK\_values-zh-rHK.arsc.flat
- values-zh-rTW\_values-zh-rTW.arsc.flat
- values-zu\_values-zu.arsc.flat
- xml\_backup\_rules.xml.flat
- xml\_data\_extraction\_rules.xml.flat

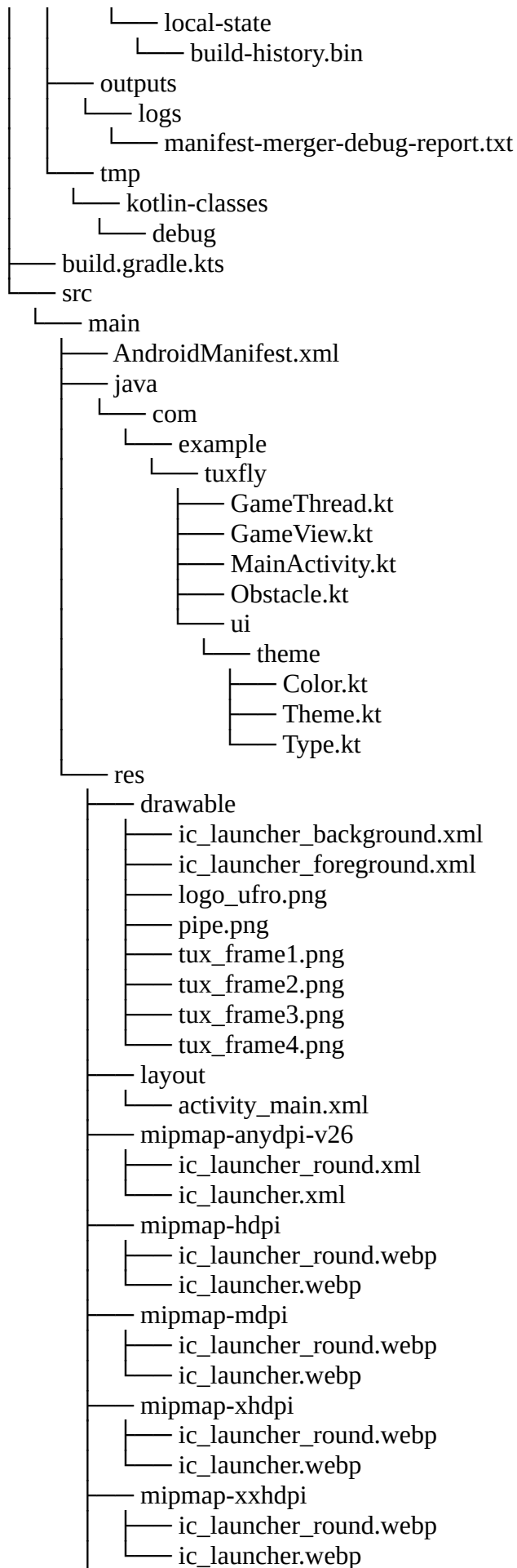
- merged\_res\_blame\_folder
  - └─ debug
    - └─ mergeDebugResources
      - └─ out
        - └─ multi-v2
          - └─ mergeDebugResources.json
          - └─ values-af.json
          - └─ values-am.json

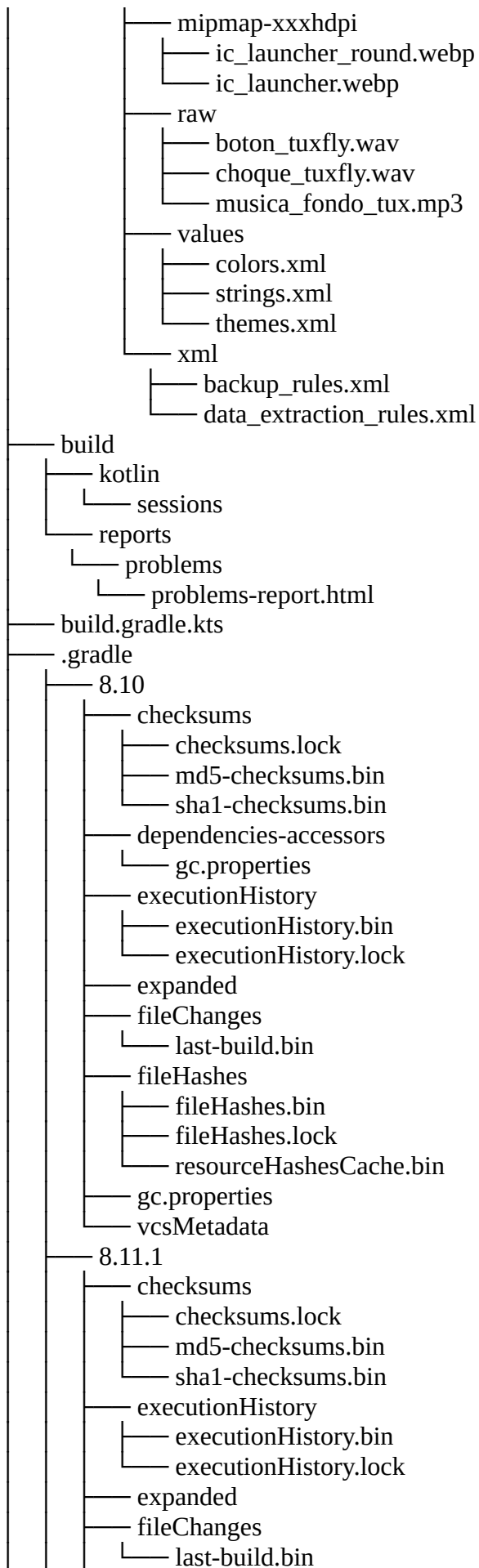
|  |  |  |  |  |                               |
|--|--|--|--|--|-------------------------------|
|  |  |  |  |  | — values-ar.json              |
|  |  |  |  |  | — values-as.json              |
|  |  |  |  |  | — values-az.json              |
|  |  |  |  |  | — values-be.json              |
|  |  |  |  |  | — values-b+es+419.json        |
|  |  |  |  |  | — values-bg.json              |
|  |  |  |  |  | — values-bn.json              |
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334 directories, 531 files

Aqui esta el codigo de mi aplicación:

```
GameThread.kt = “package com.example.tuxfly
```

```
import android.graphics.Canvas
import android.view.SurfaceHolder
```

```
class GameThread(
    private val surfaceHolder: SurfaceHolder,
    private val gameView: GameView
) : Thread() {

    private var running = false
    private val targetFPS = 60

    fun setRunning(isRunning: Boolean) {
        running = isRunning
    }

    override fun run() {
        var canvas: Canvas?

        while (running) {
            val startTime = System.nanoTime()
            canvas = null

            try {
                canvas = surfaceHolder.lockCanvas()
                synchronized(surfaceHolder) {
                    gameView.update()
                    gameView.draw(canvas)
                }
            } finally {
                if (canvas != null) {
                    surfaceHolder.unlockCanvasAndPost(canvas)
                }
            }

            val timeMillis = (System.nanoTime() - startTime) / 1_000_000
            val waitTime = (1000 / targetFPS - timeMillis).coerceAtLeast(0)

            try {
                sleep(waitTime)
            } catch (e: InterruptedException) {
                e.printStackTrace()
            }
        }
    }
}
```

```
GameView.kt = "package com.example.tuxfly
```

```
import android.content.Context
import android.graphics.*
import android.media.*
import android.view.*
```

```
class GameView(context: Context) : SurfaceView(context), SurfaceHolder.Callback {
    private val thread: GameThread
    private val tuxFrames = Array(4) {
        BitmapFactory.decodeResource(resources,
            when(it) {
                0 -> R.drawable.tux_frame1
                1 -> R.drawable.tux_frame2
                2 -> R.drawable.tux_frame3
                else -> R.drawable.tux_frame4
            }
        )
    }
    private var frameIndex = 0
    private var frameCounter = 0

    // Tux properties
    private var tuxX = 200f
    private var tuxY = 500f
    private var tuxVelocity = 0f
    private val gravity = 1.2f
    private val jumpForce = -25f

    // Game elements
    private val obstacles = mutableListOf<Obstacle>()
    private lateinit var pipeBitmap: Bitmap
    private var score = 0
    private val scorePaint = Paint().apply {
        color = Color.WHITE
        textSize = 80f
        typeface = Typeface.DEFAULT_BOLD
    }
    private var isGameOver = false

    // Audio
    private val soundPool: SoundPool
    private val soundJump: Int
    private val soundCrash: Int
    private val mediaPlayer: MediaPlayer

    init {
        holder.addCallback(this)
        thread = GameThread(holder, this)

        // Carga de assets
        pipeBitmap = BitmapFactory.decodeResource(resources, R.drawable.pipe)
```

```

// Configuración de audio
soundPool = SoundPool.Builder().setMaxStreams(3).build()
soundJump = soundPool.load(context, R.raw.boton_tuxfly, 1)
soundCrash = soundPool.load(context, R.raw.choque_tuxfly, 1)

mediaPlayer = MediaPlayer.create(context, R.raw.musica_fondo_tux).apply {
    isLooping = true
    start()
}

isFocusable = true
}

// ... (Los métodos surfaceCreated/destroyed/changed se mantienen igual que antes)

override fun onTouchEvent(event: MotionEvent?): Boolean {
    if (event?.action == MotionEvent.ACTION_DOWN) {
        if (!isGameOver) {
            tuxVelocity = jumpForce
            soundPool.play(soundJump, 1f, 1f, 0, 0, 1f)
        } else {
            // Reiniciar juego
            resetGame()
        }
    }
}
return true
}

private fun resetGame() {
    tuxY = 500f
    tuxVelocity = 0f
    obstacles.clear()
    score = 0
    isGameOver = false
    frameCounter = 0
}

fun update() {
    if (isGameOver) return

    // Física de Tux
    tuxVelocity += gravity
    tuxY += tuxVelocity

    // Animación
    frameCounter++
    if (frameCounter >= 5) {
        frameIndex = (frameIndex + 1) % tuxFrames.size
        frameCounter = 0
    }
}

```

```

// Generación de obstáculos
if (frameCounter % 90 == 0) {
    obstacles.add(Obstacle(width, height, pipeBitmap))
}

// Actualizar obstáculos
val iterator = obstacles.iterator()
while (iterator.hasNext()) {
    val obs = iterator.next()
    obs.update()

    // Colisiones
    val tuxRect = RectF(tuxX, tuxY, tuxX + tuxFrames[0].width, tuxY + tuxFrames[0].height)
    if (tuxRect.intersect(obs.getTopPipe().toRectF()) ||
        tuxRect.intersect(obs.getBottomPipe().toRectF())) {
        isGameOver = true
        soundPool.play(soundCrash, 1f, 1f, 0, 0, 1f)
    }

    // Puntuación
    if (!obs.isScored && obs.x + pipeBitmap.width < tuxX) {
        score++
        obs.isScored = true
    }

    // Eliminar obstáculos fuera de pantalla
    if (obs.isOffScreen()) iterator.remove()
}

// Límites de pantalla
if (tuxY < 0) tuxY = 0f
if (tuxY > height - tuxFrames[0].height) {
    tuxY = height - tuxFrames[0].height.toFloat()
    isGameOver = true
}
}

override fun draw(canvas: Canvas?) {
    super.draw(canvas)
    canvas?.apply {
        // Fondo
        drawColor(Color.parseColor("#87CEEB")) // Cielo azul

        // Menú inicial
        if (score == 0 && !isGameOver && tuxY == 500f) {
            val logo = BitmapFactory.decodeResource(resources, R.drawable.logo_ufro)
            drawBitmap(logo, (width - logo.width) / 2f, 200f, null)
            drawText("Toca para empezar", width / 2f - 150f, 500f, scorePaint)
            return
        }

        // Obstáculos

```

```

obstacles.forEach { it.draw(this) }

// Tux
drawBitmap(tuxFrames[frameIndex], tuxX, tuxY, null)

// Puntuación
drawText("Puntos: $score", 50f, 100f, scorePaint)

// Game Over
if (isGameOver) {
    drawText("GAME OVER", width / 2f - 150f, height / 2f, scorePaint)
    drawText("Toca para reiniciar", width / 2f - 200f, height / 2f + 100f, scorePaint)
}
}
}
}”

```

MainActivity.kt = “package com.example.tuxfly

```

import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity

```

```

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        val gameView = GameView(this)
        setContentView(gameView)
    }
}”

```

Obstacle.kt = “package com.example.tuxfly // Asegúrate de que coincida con tu paquete real

```

import android.graphics.*
import kotlin.random.Random

```

```

class Obstacle(
    private val screenWidth: Int,
    private val screenHeight: Int,
    private val pipeBitmap: Bitmap
) {
    private val gap = 500 // Espacio entre tubos
    private val speed = 12 // Velocidad de desplazamiento

    var x = screenWidth.toFloat()
    private var y = Random.nextInt(gap, screenHeight - gap).toFloat()
    var isScored = false

    fun update() {
        x -= speed
    }

    fun isOffScreen(): Boolean = x + pipeBitmap.width < 0

```

```

fun getTopPipe(): Rect {
    return Rect(x.toInt(), 0, (x + pipeBitmap.width).toInt(), (y - gap/2).toInt())
}

fun getBottomPipe(): Rect {
    return Rect(x.toInt(), (y + gap/2).toInt(), (x + pipeBitmap.width).toInt(), screenHeight)
}

fun draw(canvas: Canvas) {
    // Tubo superior (invertido)
    canvas.drawBitmap(
        pipeBitmap,
        null,
        getTopPipe(),
        null
    )

    // Tubo inferior
    canvas.drawBitmap(
        pipeBitmap,
        null,
        getBottomPipe(),
        null
    )
}
}”.

```

Color.kt = “package com.example.tuxfly.ui.theme

import androidx.compose.ui.graphics.Color

```

val Purple80 = Color(0xFFD0BCFF)
val PurpleGrey80 = Color(0xFFCCC2DC)
val Pink80 = Color(0xFFE8B88C)

```

```

val Purple40 = Color(0xFF6650a4)
val PurpleGrey40 = Color(0xFF625b71)
val Pink40 = Color(0xFF7D5260)”.

```

Theme.kt = “package com.example.tuxfly.ui.theme

```

import android.app.Activity
import android.os.Build
import androidx.compose.foundation.isSystemInDarkTheme
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.darkColorScheme
import androidx.compose.material3.dynamicDarkColorScheme
import androidx.compose.material3.dynamicLightColorScheme
import androidx.compose.material3.lightColorScheme
import androidx.compose.runtime.Composable
import androidx.compose.ui.platform.LocalContext

```

```

private val DarkColorScheme = darkColorScheme(
    primary = Purple80,
    secondary = PurpleGrey80,
    tertiary = Pink80
)

private val LightColorScheme = lightColorScheme(
    primary = Purple40,
    secondary = PurpleGrey40,
    tertiary = Pink40
)

@Composable
fun TuxFlyTheme(
    darkTheme: Boolean = isSystemInDarkTheme(),
    dynamicColor: Boolean = true,
    content: @Composable () -> Unit
) {
    val colorScheme = when {
        dynamicColor && Build.VERSION.SDK_INT >= Build.VERSION_CODES.S -> {
            val context = LocalContext.current
            if (darkTheme) dynamicDarkColorScheme(context) else
dynamicLightColorScheme(context)
        }
        darkTheme -> DarkColorScheme
        else -> LightColorScheme
    }

    MaterialTheme(
        colorScheme = colorScheme,
        typography = Typography,
        content = content
    )
}”.
```

Thype.kt = “ package com.example.tuxfly.ui.theme

```

import androidx.compose.material3.Typography
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.sp
```

```

val Typography = Typography(
    bodyLarge = TextStyle(
        fontFamily = FontFamily.Default,
        fontWeight = FontWeight.Normal,
        fontSize = 16.sp,
        lineHeight = 24.sp,
        letterSpacing = 0.5.sp
    )
)
```



)”.

```
AndroidManifest.xml = “<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.AppCompat.Light.NoActionBar"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true"
            android:label="@string/app_name"
            android:theme="@style/Theme.AppCompat.Light.NoActionBar">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
“.
```