Application Structure
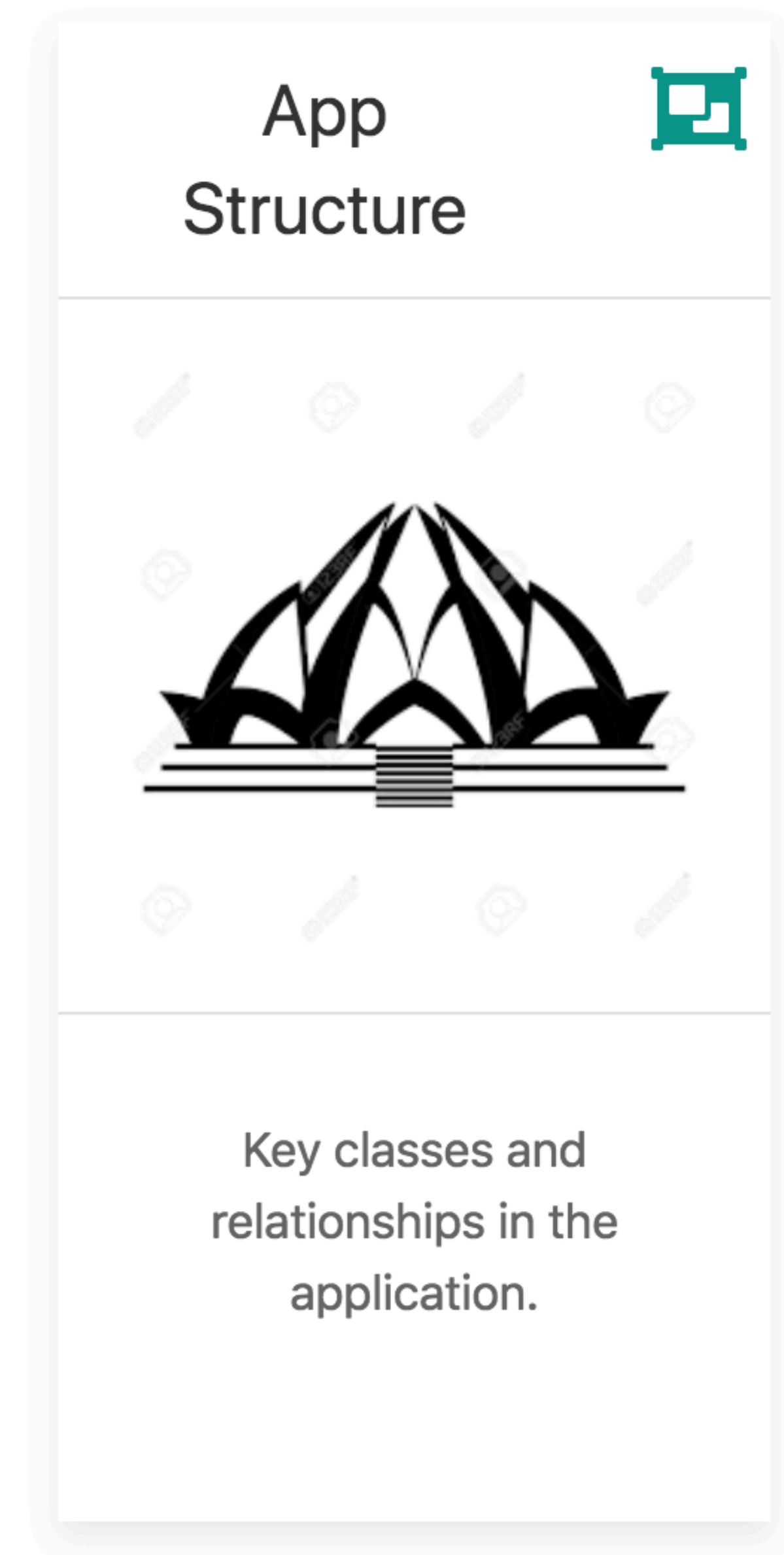
App Structure

Key classes and relationships in the application.

```gradle
apply plugin: 'com.android.application'
apply plugin: 'kotlin-android'
apply plugin: 'kotlin-android-extensions'

android {
  compileSdkVersion 29
  buildToolsVersion "29.0.2"
  defaultConfig {
    applicationId "org.wit.placemark"
    minSdkVersion 23
    targetSdkVersion 29
    versionCode 1
    versionName "1.0"
    testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
  }
  buildTypes {
    release {
      minifyEnabled false
      proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
    }
  }
}

dependencies {
  implementation fileTree(dir: 'libs', include: ['*.jar'])
  implementation "org.jetbrains.kotlin:kotlin-stdlib-jdk7:$kotlin_version"
  implementation 'androidx.appcompat:appcompat:1.1.0'
  implementation 'com.google.android.material:material:1.0.0'
  implementation 'androidx.core:core-ktx:1.1.0'
  implementation 'androidx.constraintlayout:constraintlayout:1.1.3'
  implementation 'org.jetbrains.anko:anko-commons:0.10.8'
  testImplementation 'junit:junit:4.12'
  androidTestImplementation 'androidx.test:runner:1.2.0'
  androidTestImplementation 'androidx.test.espresso:espresso-core:3.2.0'
}

androidExtensions {
  experimental = true
}
```
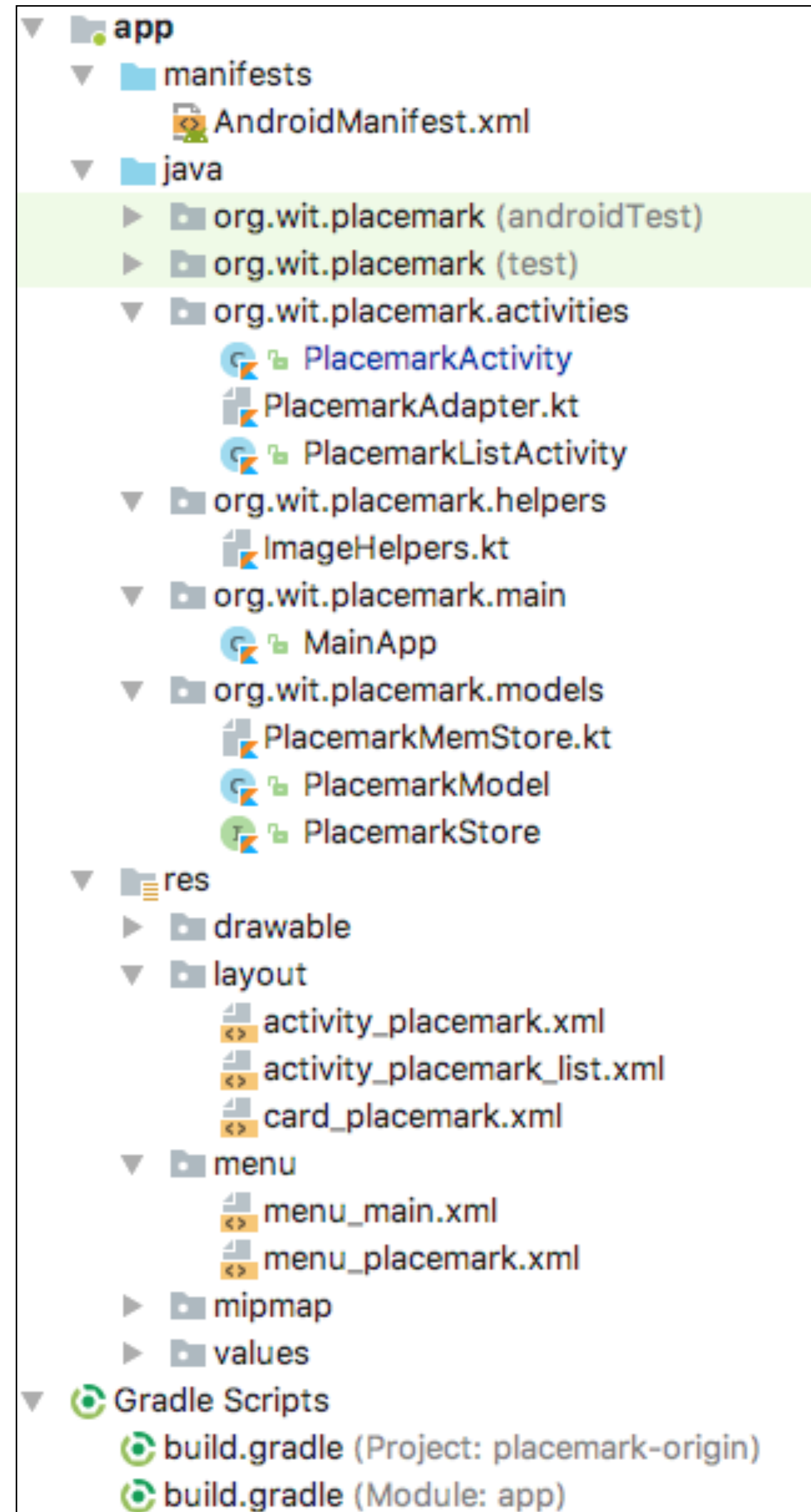
2

android.manifest
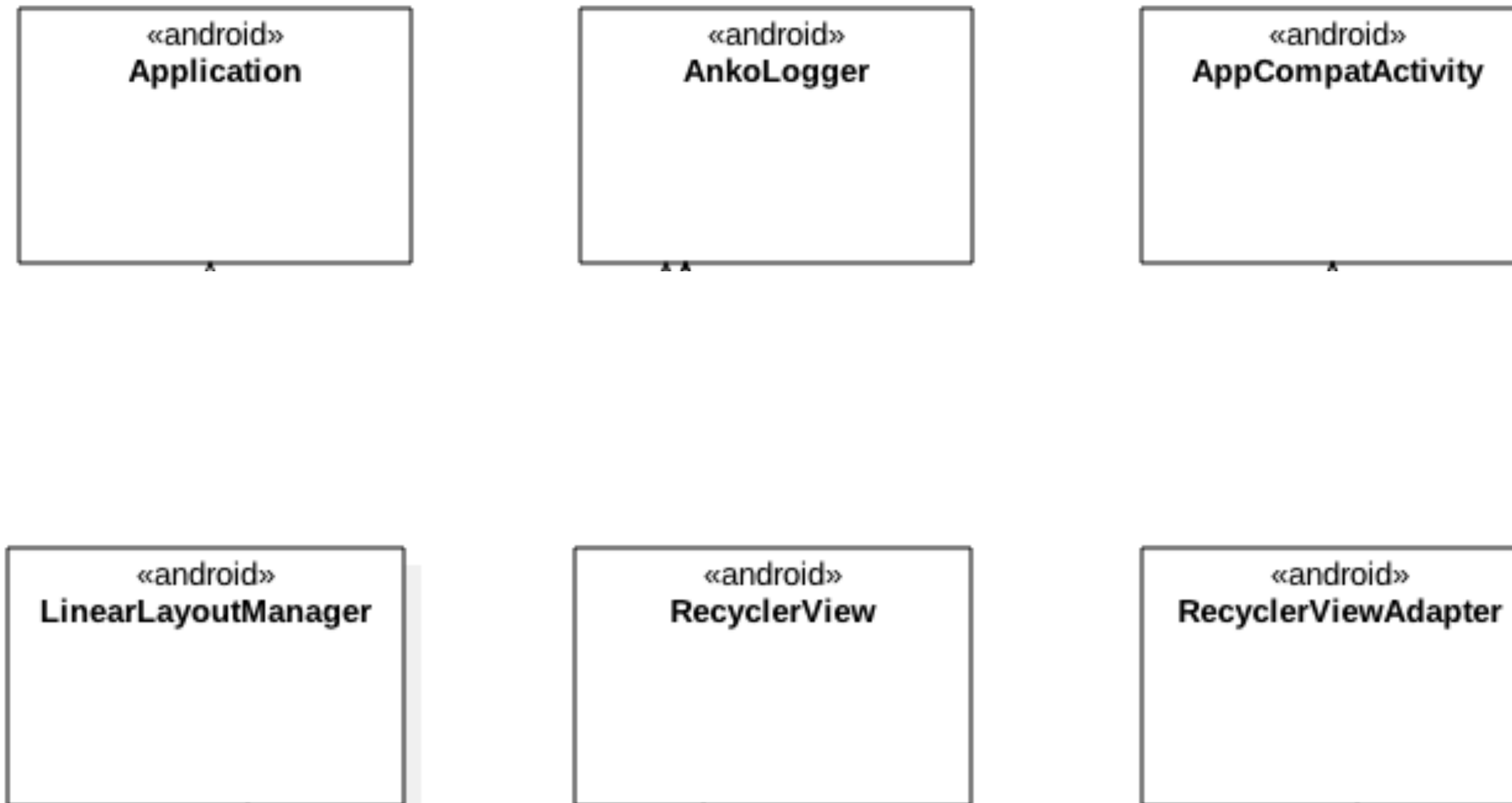
```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
  package="org.wit.placemark">

  <application
    android:name="org.wit.placemark.main.MainApp"
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:roundIcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/AppTheme">
    <activity android:name=".activities.PlacemarkActivity">
    </activity>
    <activity android:name=".activities.PlacemarkListActivity">
      <intent-filter>
        <action android:name="android.intent.action.MAIN"/>
        <category android:name="android.intent.category.LAUNCHER"/>
      </intent-filter>
    </activity>
  </application>

</manifest>
```
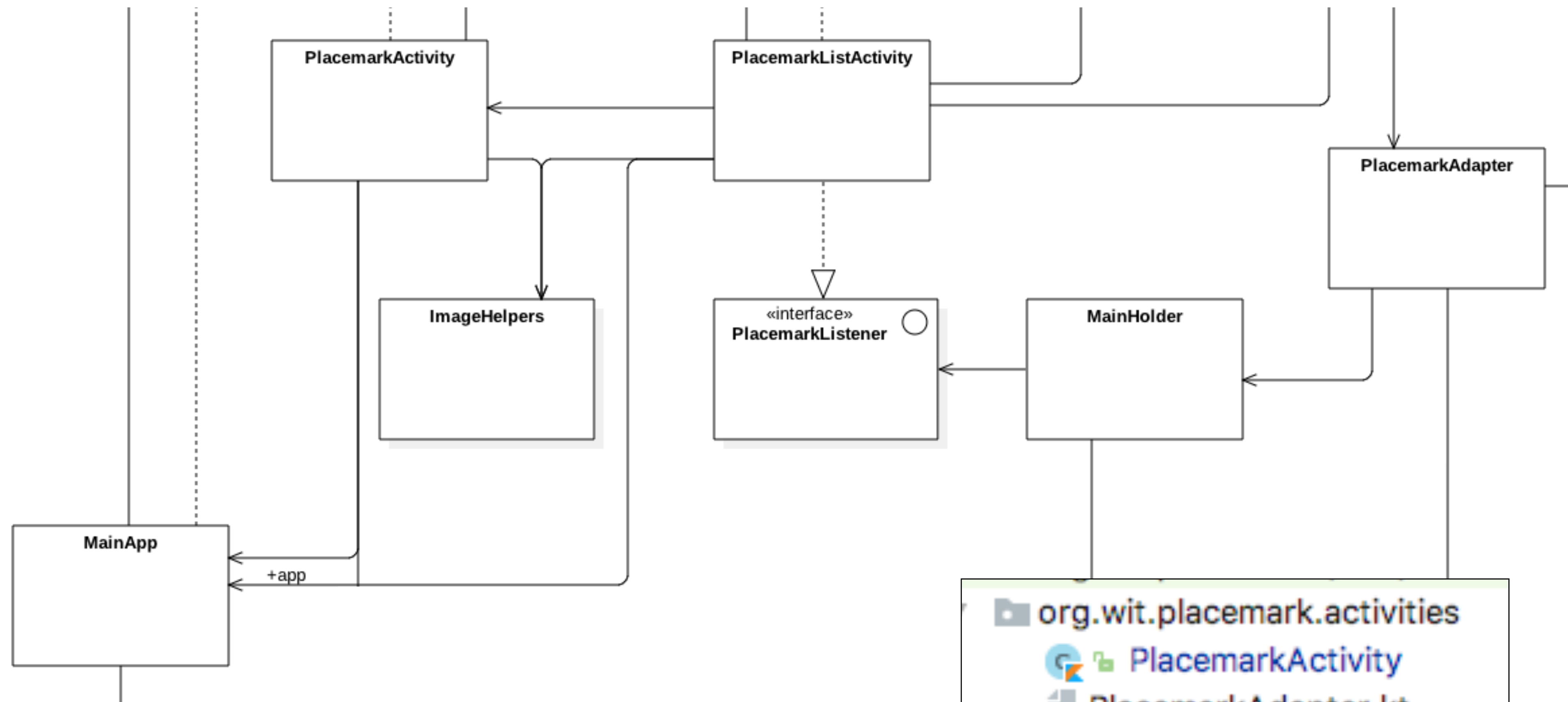
- ▼ **app**
  - ▼ manifests
    - AndroidManifest.xml
  - ▼ java
    - ▶ org.wit.placemark (androidTest)
    - ▶ org.wit.placemark (test)
    - ▼ org.wit.placemark.activities
      - PlacemarkActivity
      - PlacemarkAdapter.kt
      - PlacemarkListActivity
    - ▼ org.wit.placemark.helpers
      - ImageHelpers.kt
    - ▼ org.wit.placemark.main
      - MainApp
    - ▼ org.wit.placemark.models
      - PlacemarkMemStore.kt
      - PlacemarkModel
      - PlacemarkStore
  - ▼ res
    - ▶ drawable
    - ▼ layout
      - activity_placemark.xml
      - activity_placemark_list.xml
      - card_placemark.xml
    - ▼ menu
      - menu_main.xml
      - menu_placemark.xml
    - ▶ mipmap
    - ▶ values
- ▼ Gradle Scripts
  - build.gradle (Project: placemark-origin)
  - build.gradle (Module: app)

Placemark Classes

Key Android Classes

«android»
Application

«android»
AnkoLogger

«android»
AppCompatActivity

«android»
LinearLayoutManager

«android»
RecyclerView

«android»
RecyclerViewAdapter

Core Activity Classes

Placemark Model