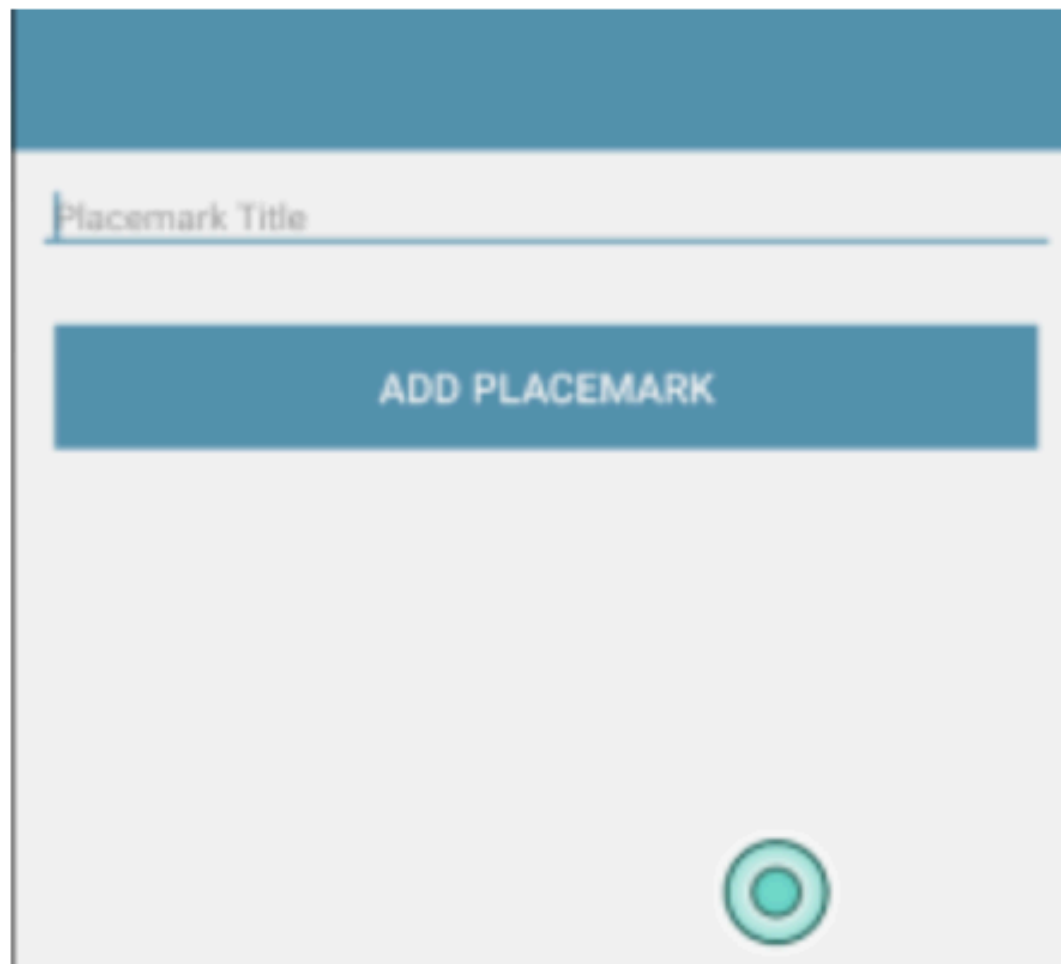
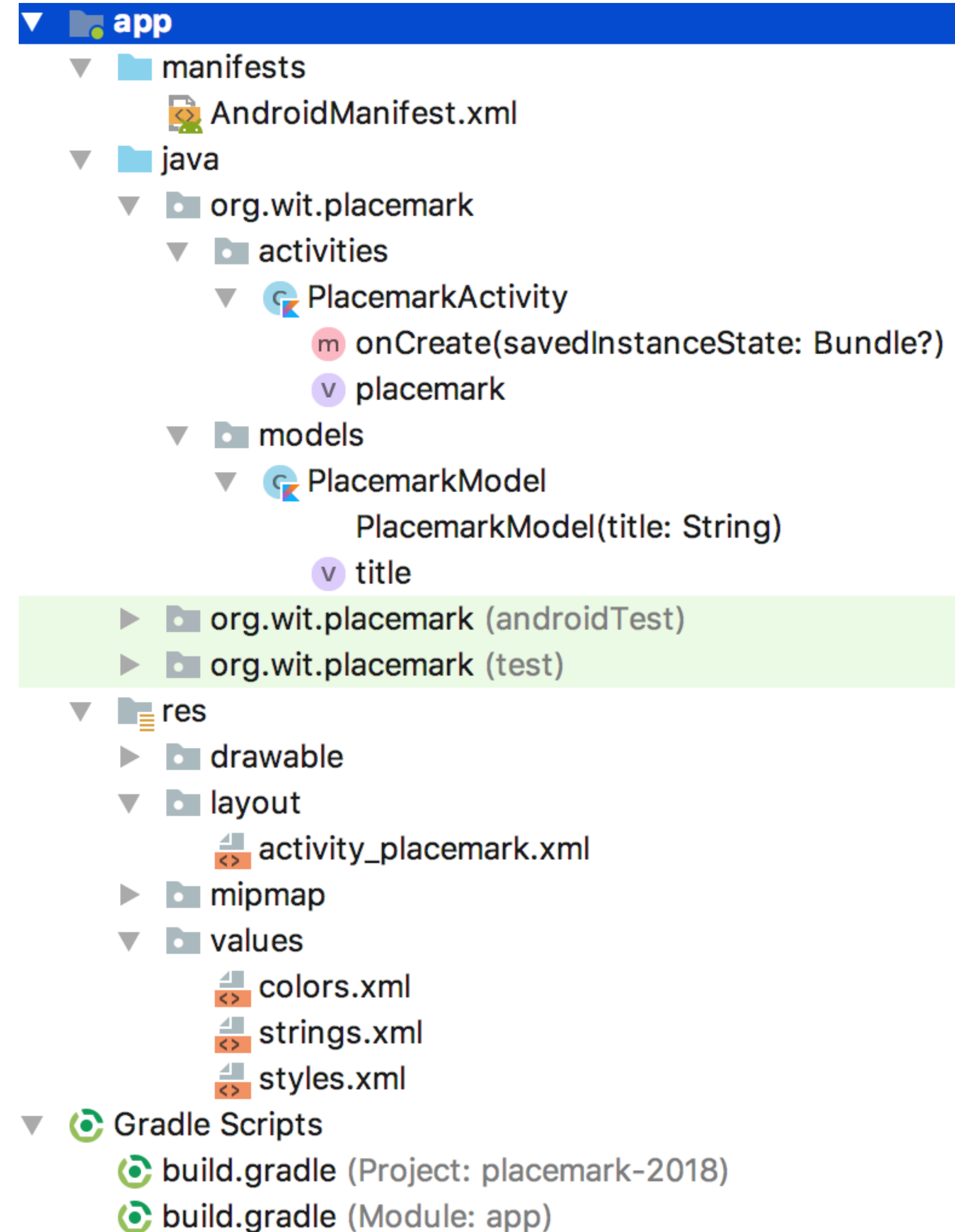


Lab-01 Activities



Create a starter Kotlin android project, with a single Activity + Model.



```

package org.wit.placemark.activities

import android.support.v7.app.AppCompatActivity
import android.os.Bundle
import kotlinx.android.synthetic.main.activity_placemark.*
import org.jetbrains.anko.AnkoLogger
import org.jetbrains.anko.info
import org.jetbrains.anko.toast
import org.wit.placemark.R
import org.wit.placemark.models.PlacemarkModel

class PlacemarkActivity : AppCompatActivity(), AnkoLogger {

    var placemark = PlacemarkModel()

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_placemark)
        info("Placemark Activity started..")

        btnAdd.setOnClickListener() {
            placemark.title = placemarkTitle.text.toString()
            if (placemark.title.isNotEmpty()) {
                info("add Button Pressed: $placemarkTitle")
            }
            else {
                toast ("Please Enter a title")
            }
        }
    }
}

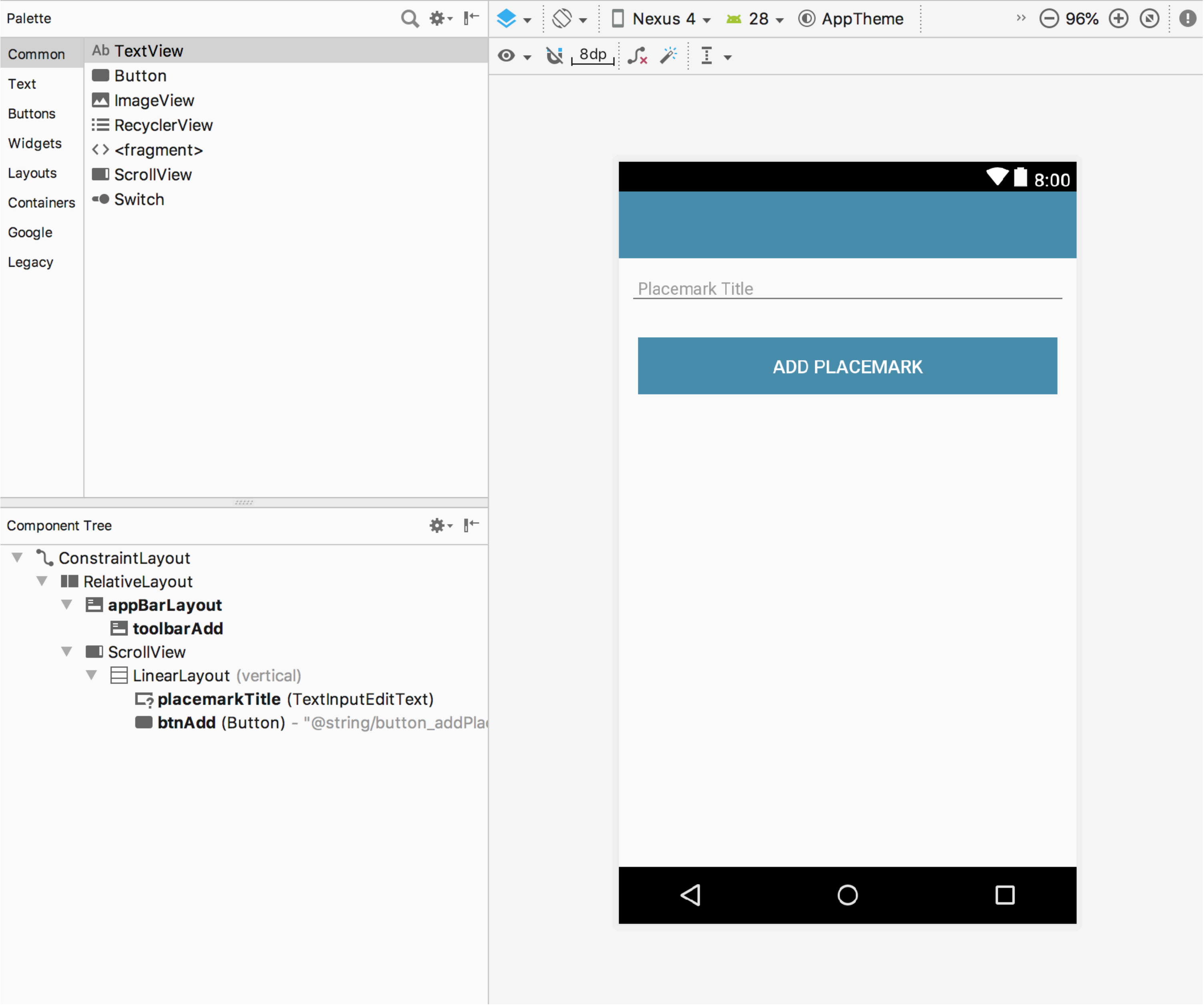
```

```

package org.wit.placemark.models

data class PlacemarkModel(var title: String = "")

```



```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="org.wit.placemark.activities.PlacemarkActivity">

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <android.support.design.widget.AppBarLayout
            android:id="@+id/appBarLayout"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:background="@color/colorAccent"
            android:fitsSystemWindows="true"
            app:elevation="0dp"
            app:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

            <android.support.v7.widget.Toolbar
                android:id="@+id/toolbarAdd"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                app:titleTextColor="@color/colorPrimary"/>
        </android.support.design.widget.AppBarLayout>

        <ScrollView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_below="@id/appBarLayout"
            android:fillViewport="true">

            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="vertical">

                <android.support.design.widget.TextInputEditText
                    android:id="@+id/placemarkTitle"
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:layout_margin="8dp"
                    android:hint="@string/hint_placemarkTitle"
                    android:inputType="text"
                    android:maxLength="25"
                    android:maxLines="1"
                    android:padding="8dp"
                    android:textColor="@color/colorPrimaryDark"
                    android:textSize="14sp"/>

                <Button
                    android:id="@+id/btnAdd"
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:layout_margin="16dp"
                    android:background="@color/colorAccent"
                    android:paddingBottom="8dp"
                    android:paddingTop="8dp"
                    android:stateListAnimator="@null"
                    android:text="@string/button_addPlacemark"
                    android:textColor="@color/colorPrimary"
                    android:textSize="16sp"/>
            </LinearLayout>
        </ScrollView>

    </RelativeLayout>
</android.support.constraint.ConstraintLayout>
```

```
<resources>
  <string name="app_name">Placemark</string>
  <string name="hint_placemarkTitle">Placemark Title</string>
  <string name="button_addPlacemark">Add Placemark</string>
</resources>
```

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
  <color name="colorPrimary">#FFFFFF</color>
  <color name="colorPrimaryDark">#000000</color>
  <color name="colorAccent">#4c90af</color>
</resources>
```

```
<resources>

  <!-- Base application theme. -->
  <style name="AppTheme" parent="Theme.AppCompat.Light.NoActionBar">
    <!-- Customize your theme here. -->
    <item name="colorPrimary">@color/colorPrimary</item>
    <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
    <item name="colorAccent">@color/colorAccent</item>
  </style>

</resources>
```



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

    <application
        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">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

```
// Top-level build file where you can add configuration options common to
// all sub-projects/modules.

buildscript {
    ext.kotlin_version = '1.2.50'
    repositories {
        google()
        jcenter()
    }
    dependencies {
        classpath 'com.android.tools.build:gradle:3.1.4'
        classpath "org.jetbrains.kotlin:kotlin-gradle-plugin:$kotlin_version"

        // NOTE: Do not place your application dependencies here; they belong
        // in the individual module build.gradle files
    }
}

allprojects {
    repositories {
        google()
        jcenter()
    }
}

task clean(type: Delete) {
    delete rootProject.buildDir
}
```

```
apply plugin: 'com.android.application'

apply plugin: 'kotlin-android'

apply plugin: 'kotlin-android-extensions'

android {
    compileSdkVersion 28
    defaultConfig {
        applicationId "org.wit.placemark"
        minSdkVersion 23
        targetSdkVersion 28
        versionCode 1
        versionName "1.0"
        testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
        }
    }
}

dependencies {
    implementation fileTree(dir: 'libs', include: ['*.jar'])
    implementation "org.jetbrains.kotlin:kotlin-stdlib-jdk7:$kotlin_version"
    implementation 'com.android.support:appcompat-v7:28.0.0-rc02'
    implementation 'com.android.support.constraint:constraint-layout:1.1.3'
    implementation 'com.android.support:design:28.0.0-rc02'
    implementation 'org.jetbrains.anko:anko:0.10.5'
    implementation 'org.jetbrains.anko:anko-commons:0.10.5'
    testImplementation 'junit:junit:4.12'
    androidTestImplementation 'com.android.support.test:runner:1.0.2'
    androidTestImplementation 'com.android.support.test.espresso:espresso-core:3.0.2'
}
```