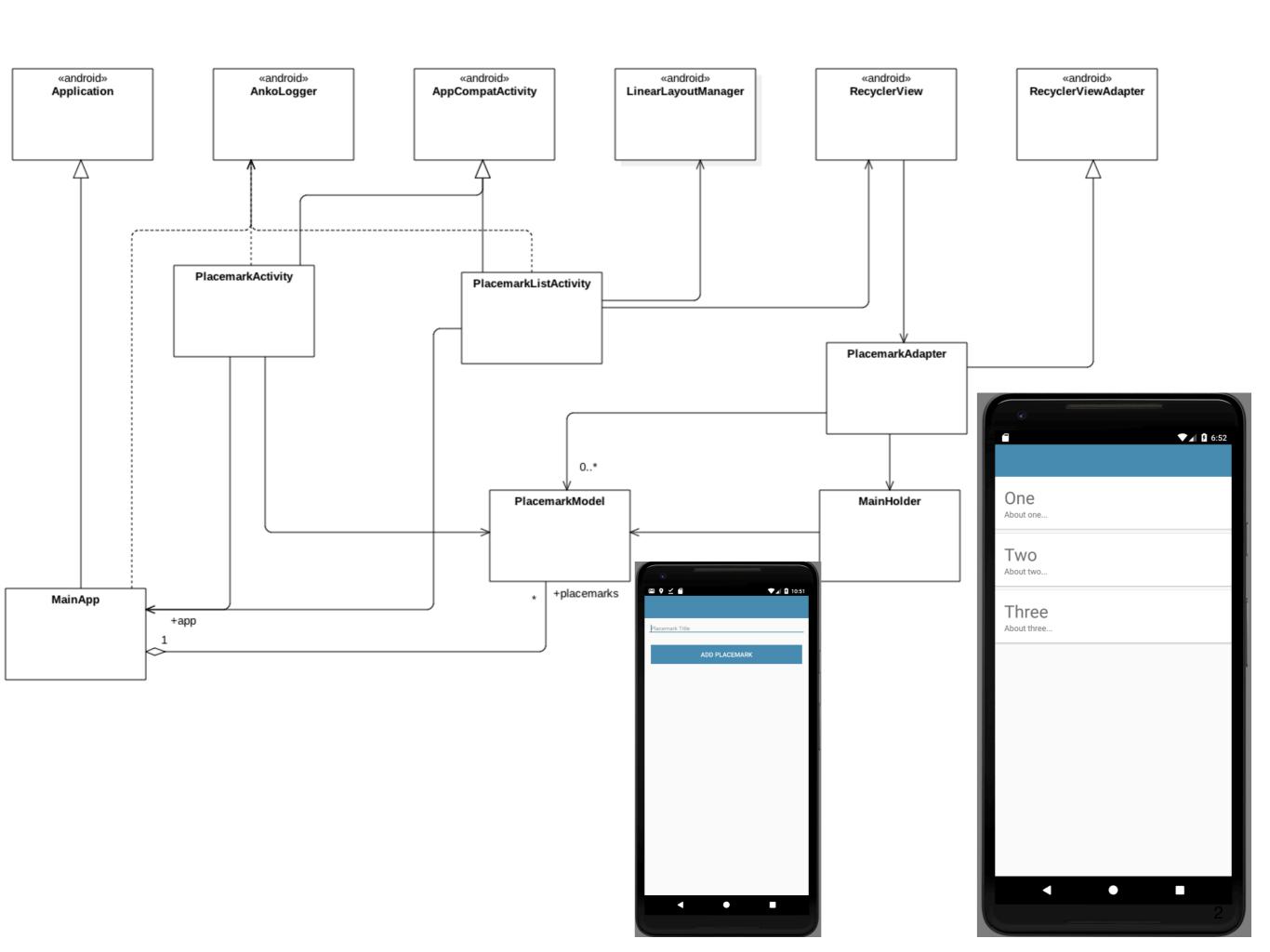
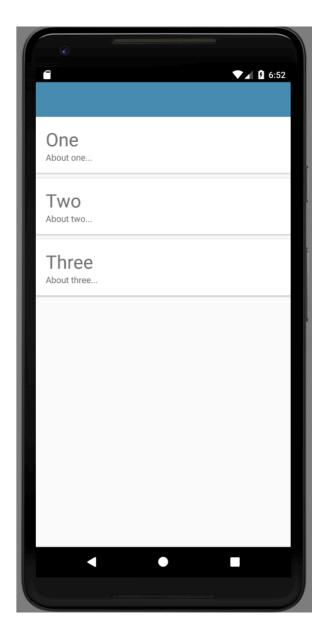
Adapter + Listener





activity_placemark_list

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout</pre>
    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.PlacemarkListActivity">
  <android.support.design.widget.AppBarLayout</pre>
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:background="@color/colorAccent"
      android:fitsSystemWindows="true"
      app:elevation="0dip"
      app:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">
    <android.support.v7.widget.Toolbar</pre>
        android:id="@+id/toolbarMain"
        android:layout_width="match_parent"
        android:layout height="wrap content"
        app:titleTextColor="@color/colorPrimary"/>
  </android.support.design.widget.AppBarLayout>
  <android.support.v7.widget.RecyclerView</pre>
      android:id="@+id/recyclerView"
      android:layout_width="match_parent"
      android:layout_height="match_parent"
      android:scrollbars="vertical"
      app:layout_behavior="@string/appbar_scrolling_view_behavior"/>
</android.support.design.widget.CoordinatorLayout>
```



card_placemark

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.CardView</pre>
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:layout width="match parent"
   android:layout height="wrap content"
   android:layout marginBottom="8dp"
   android:elevation="24dp">
 <RelativeLayout
      android:layout width="match parent"
      android:layout_height="wrap_content"
      android:padding="16dp">
                                                              One
   <TextView
                                                              About one...
        android:id="@+id/placemarkTitle"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout alignParentTop="true"
        android:textSize="30sp"/>
   <TextView
        android:id="@+id/description"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout below="@id/placemarkTitle"/>
 </RelativeLayout>
</android.support.v7.widget.CardView>
```

activity_placemark

Placemark		CANCEL	
Here			
is better			
ADD PLACEMARK			

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout</pre>
    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">
      android:layout_width="match_parent"
      android: layout height="wrap content">
    <android.support.design.widget.AppBarLayout</pre>
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@color/colorAccent"
        android:fitsSystemWindows="true"
        app:elevation="0dip"
        app:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">
      <android.support.v7.widget.Toolbar</pre>
          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</pre>
            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"/>
        <android.support.design.widget.TextInputEditText</pre>
            android:id="@+id/description"
             android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="8dp'
            android:hint="@string/hint_placemarkDescription"
            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>
```

5

PlacemarkListActivity

```
One
                                                                            About one...
class PlacemarkListActivity : AppCompatActivity() {
                                                                            Two
  lateinit var app: MainApp
                                                                            About two..
  override fun onCreate(savedInstanceState: Bundle?) {
                                                                            Three
    super.onCreate(savedInstanceState)
                                                                            About three..
    setContentView(R.layout.activity_placemark_list)
    app = application as MainApp
    toolbarMain.title = title
    setSupportActionBar(toolbarMain)
    val layoutManager = LinearLayoutManager(this)
    recyclerView.layoutManager = layoutManager
    recyclerView.adapter = PlacemarkAdapter(app.placemarks.findAll())
  override fun onCreateOptionsMenu(menu: Menu?): Boolean {
    menuInflater.inflate(R.menu.menu_main, menu)
    return super.onCreateOptionsMenu(menu)
  override fun onOptionsItemSelected(item: MenuItem?): Boolean {
    when (item?.itemId) {
      R.id.item_add -> startActivityForResult<PlacemarkActivity>(AppCompatActivity.RESULT_OK)
    return super.onOptionsItemSelected(item)
```

PlacemarkAdapter

```
class PlacemarkAdapter constructor(private var placemarks: List<PlacemarkModel>)
                                                  : RecyclerView.Adapter<PlacemarkAdapter.MainHolder>() {
 override fun onCreateViewHolder(parent: ViewGroup?, viewType: Int): MainHolder {
    return MainHolder(LayoutInflater.from(parent?.context).inflate(R.layout.card placemark, parent, false))
 override fun onBindViewHolder(holder: MainHolder, position: Int) {
   val placemark = placemarks[holder.adapterPosition]
   holder.bind(placemark)
 override fun getItemCount(): Int = placemarks.size
 class MainHolder constructor(itemView: View) : RecyclerView.ViewHolder(itemView) {
    fun bind(placemark: PlacemarkModel) {
      itemView.placemarkTitle.text = placemark.title
                                                                 One
      itemView.description.text = placemark.description
                                                                About one...
```

About two...

Three

About three..

```
class PlacemarkActivity : AppCompatActivity(), AnkoLogger {
 var placemark = PlacemarkModel()
  lateinit var app: MainApp
 override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity placemark)
    app = application as MainApp
   toolbarAdd.title = title
    setSupportActionBar(toolbarAdd)
    btnAdd.setOnClickListener() {
      placemark.title = placemarkTitle.text.toString()
      placemark.description = description.text.toString()
      if (placemark.title.isNotEmpty()) {
        app.placemarks.create(placemark.copy())
        setResult(AppCompatActivity.RESULT_OK)
        finish()
      else {
        toast("Please Enter a title")
 override fun onCreateOptionsMenu(menu: Menu?): Boolean {
   menuInflater.inflate(R.menu.menu_placemark, menu)
    return super.onCreateOptionsMenu(menu)
 override fun onOptionsItemSelected(item: MenuItem?): Boolean {
   when (item?.itemId) {
      R.id.item_cancel -> {
        setResult(RESULT_CANCELED)
        finish()
    return super.onOptionsItemSelected(item)
```

PlacemarkActivity

Placemark		CANCEL
Here		
is better		
ADD PLACEMARK		

PlacemarkListener



```
interface PlacemarkListener {
  fun onPlacemarkClick(placemark: PlacemarkModel)
}
```

PlacemarkAdapter

```
class PlacemarkAdapter constructor(private var placemarks: List<PlacemarkModel>)
                                                  : RecyclerView.Adapter<PlacemarkAdapter.MainHolder>() {
 override fun onCreateViewHolder(parent: ViewGroup?, viewType: Int): MainHolder {
    return MainHolder(LayoutInflater.from(parent?.context).inflate(R.layout.card_placemark, parent, false))
  }
 override fun onBindViewHolder(holder: MainHolder, position: Int) {
   val placemark = placemarks[holder.adapterPosition]
   holder.bind(placemark)
  }
 override fun getItemCount(): Int = placemarks.size
 class MainHolder constructor(itemView: View) : RecyclerView.ViewHolder(itemView) {
   fun bind(placemark: PlacemarkModel) {
      itemView.placemarkTitle.text = placemark.title
      itemView.description.text = placemark.description
```

Revised PlacemarkAdapter

```
class PlacemarkAdapter constructor(private var placemarks: List<PlacemarkModel>,
                                   private val listener: PlacemarkListener)
                                                    : RecyclerView.Adapter<PlacemarkAdapter.MainHolder>() {
 override fun onCreateViewHolder(parent: ViewGroup?, viewType: Int): MainHolder {
    return MainHolder(LayoutInflater.from(parent?.context).inflate(R.layout.card_placemark, parent, false))
 override fun onBindViewHolder(holder: MainHolder, position: Int) {
   val placemark = placemarks[holder.adapterPosition]
   holder.bind(placemark, listener)
 override fun getItemCount(): Int = placemarks.size
 class MainHolder constructor(itemView: View) : RecyclerView.ViewHolder(itemView) {
    fun bind(placemark: PlacemarkModel, listener: PlacemarkListener) {
      itemView.placemarkTitle.text = placemark.title
      itemView.description.text = placemark.description
      itemView.setOnClickListener { listener.onPlacemarkClick(placemark) }
                                                                             One
                                                                             About one...
                                                                             Two
                                                                             About two...
                                                                             Three
```

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About three...

Revised PlacemarkAdapter

```
class PlacemarkAdapter constructor(private var placemarks: List<PlacemarkModel>,
                                   private val listener: PlacemarkListener)
                                                     : RecyclerView.Adapter<PlacemarkAdapter.MainHolder>() {
 override fun onCreateViewHolder(parent: ViewGroup?, viewType: Int): MainHolder {
    return MainHolder(LayoutInflater.from(parent?.context).inflate(R.layout.card placemark, parent, false))
 override fun onBindViewHolder(holder: MainHolder, position: Int) {
   val nlacemark = nlacemarks[holder.adapterPosition]
    holder.bind(placemark, listener)
 override fun getItemCount(): Int = placemarks.size
 class MainHolder constructor(itemView: View) : RecyclerView.ViewHolder(itemView) {
    fun bind(placemark: PlacemarkModel, listener: PlacemarkListener) {
      itemView.placemarkTitle.text = placemark.title
      itemView.description.text = placemark.description
      itemView.setOnClickListener { listener.onPlacemarkClick(placemark)
                                                                              One
                                                                             About one...
                                                                             Two
                                                                             About two...
                                                                              Three
                                                                                                           12
                                                                             About three...
```

PlacemarkListActivity

```
One
class PlacemarkListActivity : AppCompatActivity() {
                                                                               Two
 lateinit var app: MainApp
                                                                               About two..
 override fun onCreate(savedInstanceState: Bundle?) {
                                                                               Three
    super.onCreate(savedInstanceState)
                                                                               About three...
    setContentView(R.layout.activity_placemark_list)
    app = application as MainApp
    toolbarMain.title = title
    setSupportActionBar(toolbarMain)
    val layoutManager = LinearLayoutManager(this)
    recyclerView.layoutManager = layoutManager
    recyclerView.adapter = PlacemarkAdapter(app.placemarks.findAll())
 override fun onCreateOptionsMenu(menu: Menu?): Boolean {
   menuInflater.inflate(R.menu_menu_main, menu)
    return super.onCreateOptionsMenu(menu)
 override fun onOptionsItemSelected(item: MenuItem?): Boolean {
   when (item?.itemId) {
      R.id.item_add -> startActivityForResult<PlacemarkActivity>(AppCompatActivity.RESULT_OK)
    return super.onOptionsItemSelected(item)
```

Revised PlacemarkListActivity

```
One
class PlacemarkListActivity : AppCompatActivity(), PlacemarkListener {
                                                                                About one.
                                                                                Two
  lateinit var app: MainApp
                                                                                About two..
  override fun onCreate(savedInstanceState: Bundle?) {
                                                                                Three
    super.onCreate(savedInstanceState)
                                                                                About three...
    setContentView(R.layout.activity_placemark_list)
    app = application as MainApp
    toolbarMain.title = title
    setSupportActionBar(toolbarMain)
    val layoutManager = LinearLayoutManager(this)
    recyclerView.layoutManager = layoutManager
    recyclerView.adapter = PlacemarkAdapter(app.placemarks.findAll(), this)
  override fun onCreateOptionsMenu(menu: Menu?): Boolean {
    menuInflater.inflate(R.menu.menu main, menu)
    return super.onCreateOptionsMenu(menu)
  override fun onOptionsItemSelected(item: MenuItem?): Boolean {
    when (item?.itemId) {
      R.id.item_add -> startActivityForResult<PlacemarkActivity>(AppCompatActivity.RESULT_OK)
    return super.onOptionsItemSelected(item)
  override fun onPlacemarkClick(placemark: PlacemarkModel) {
    startActivityForResult<PlacemarkActivity>(AppCompatActivity.RESULT OK)
```

Revised PlacemarkListActivity

```
One
class PlacemarkListActivity : AppCompatActivity(), PlacemarkListener {
                                                                                About one.
                                                                                Two
  lateinit var app: MainApp
                                                                                About two..
  override fun onCreate(savedInstanceState: Bundle?) {
                                                                                Three
    super.onCreate(savedInstanceState)
                                                                                About three...
    setContentView(R.layout.activity_placemark_list)
    app = application as MainApp
    toolbarMain.title = title
    setSupportActionBar(toolbarMain)
    val layoutManager = LinearLayoutManager(this)
    recyclerView.layoutManager = layoutManager
    recyclerView.adapter = PlacemarkAdapter(app.placemarks.findAll(), this)
  override fun onCreateOptionsMenu(menu: Menu?): Boolean {
    menuInflater.inflate(R.menu.menu main, menu)
    return super.onCreateOptionsMenu(menu)
  override fun onOptionsItemSelected(item: MenuItem?): Boolean {
    when (item?.itemId) {
      R.id.item_add -> startActivityForResult<PlacemarkActivity>(AppCompatActivity.RESULT_OK)
    return super.onOptionsItemSelected(item)
  override fun onPlacemarkClick(placemark: PlacemarkModel) {
    startActivityForResult<PlacemarkActivity>(AppCompatActivity.RESULT OK)
```

