

## Model Updates

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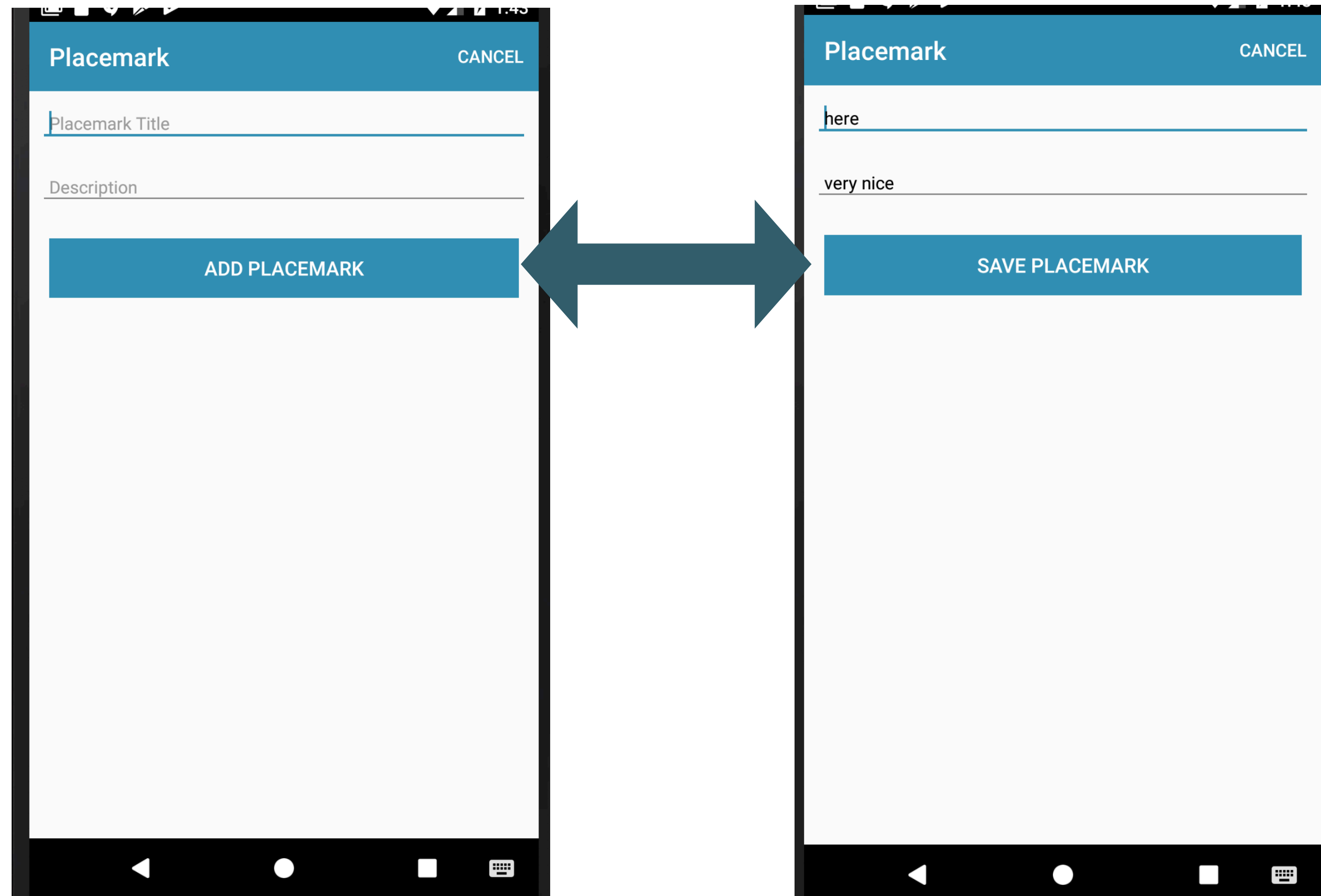


Creating and updating a Placemark. Updating the placemark list.

## Exercise 2: Add Button Label

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When you select a placemark - and the PlacemarkActivity is launched, the button label is 'Add Placemark'. See if you can change this to 'Save Placemark'. This is only to be changed if PlacemarkActivity is launched with a placemark passed to it. Make sure the Save Placemark string is externalized (in strings.xml)



## Exercise 3 Solution

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Introduce a local flag in onCreate(), always initialised to false:

### PlacemarkActivity

---

```
var edit = false
```

Set the flag to true if we have a placemark passed:

```
if (intent.hasExtra("placemark_edit")) {  
    edit = true  
    placemark = intent.extras.getParcelable<PlacemarkModel>("placemark_edit")  
    placemarkTitle.setText(placemark.title)  
    description.setText(placemark.description)  
    btnAdd.setText(R.string.save_placemark)  
}
```

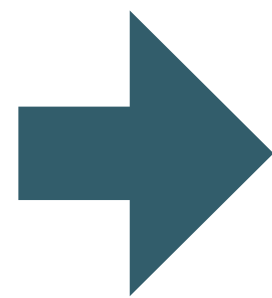
# PlacemarkListActivity

```
override fun onPlacemarkClick(placemark: PlacemarkModel) {  
    startActivityForResult(intentFor<PlacemarkActivity>().putExtra("placemark_edit", placemark), 0)  
}
```

placemark sent to PlacemarkActivity



Set title to  
‘Save’ if  
pacemaker  
detected



```
if (intent.hasExtra("placemark_edit")) {  
    edit = true  
    placemark = intent.extras.getParcelable<PlacemarkModel>("placemark_edit")  
    placemarkTitle.setText(placemark.title)  
    description.setText(placemark.description)  
    btnAdd.setText(R.string.save_placemark)  
}
```

PlacemarkActivity

Then rework the add button event handler to follows:

```
...
btnAdd.setOnClickListener() {
    placemark.title = placemarkTitle.text.toString()
    placemark.description = description.text.toString()
    if (placemark.title.isEmpty()) {
        toast(R.string.enter_placemark_title)
    } else {
        if (edit) {
            app.placemarks.update(placemark.copy())
        } else {
            app.placemarks.create(placemark.copy())
        }
    }
    info("add Button Pressed: $placemarkTitle")
    setResult(AppCompatActivity.RESULT_OK)
    finish()
}
...
```

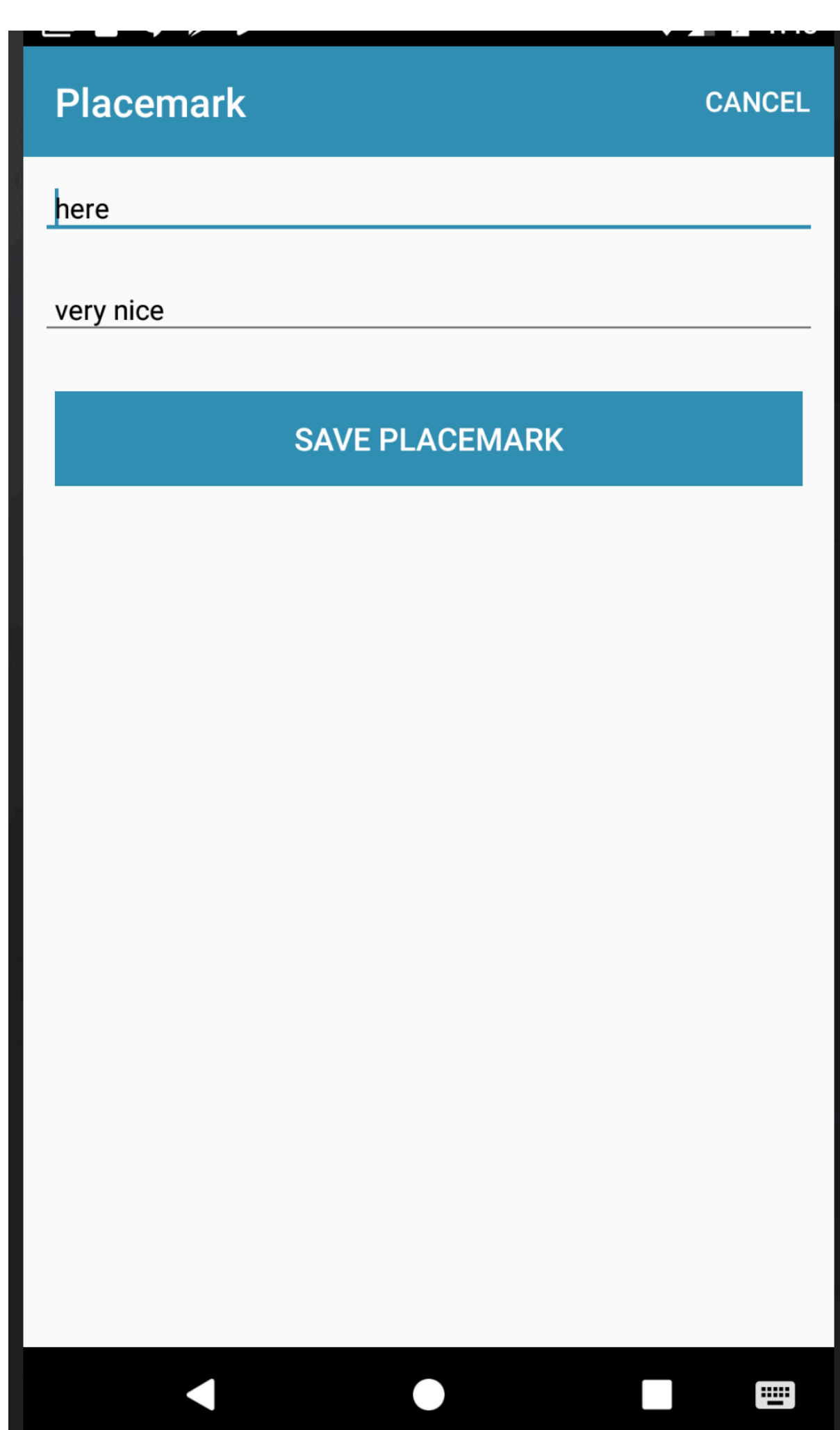
Check to see if we  
are **editing** an  
existing placemark

If we are - call  
**update()**

Otherwise call  
**create()**

If cancel pressed,  
end activity without  
any update



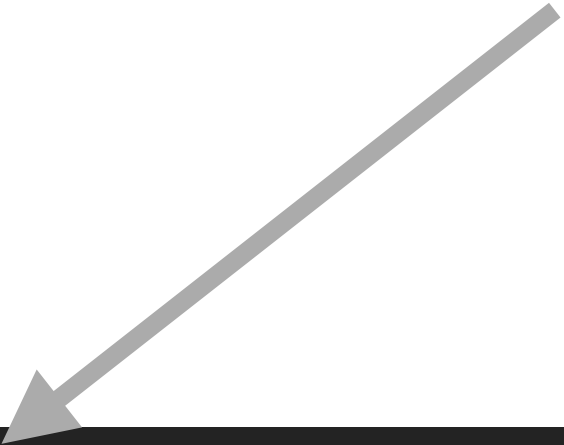


```
override fun onOptionsItemSelected(item: MenuItem?): Boolean {  
    when (item?.itemId) {  
        R.id.item_cancel -> {  
            finish()  
        }  
    }  
    return super.onOptionsItemSelected(item)  
}
```

If cancel pressed, end  
activity without any update

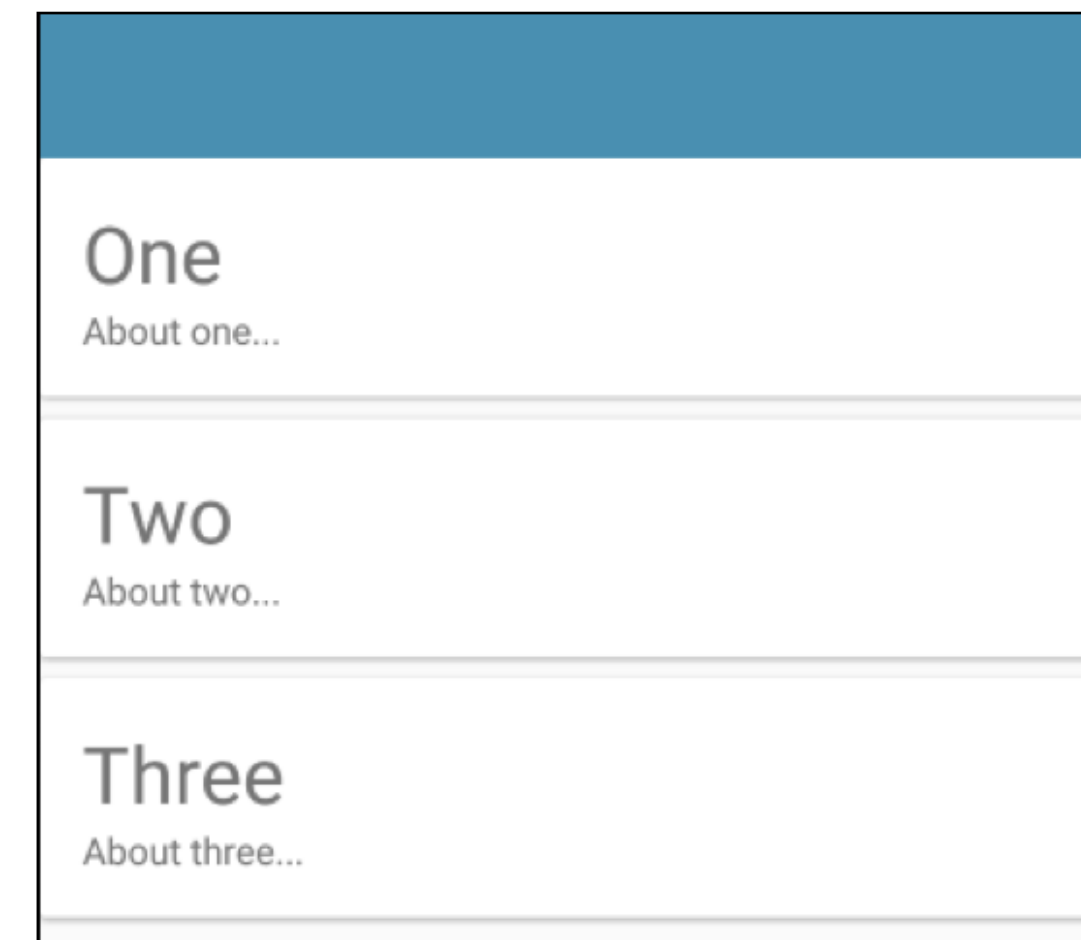
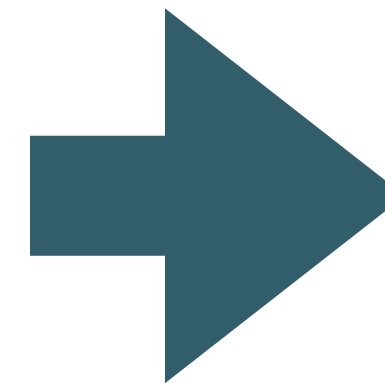
## PlacemarkListActivity

When PlacemarkActivity  
finishes, and  
PlacemarkListActivity  
resumes, refresh the  
adapter



```
override fun onActivityResult(requestCode: Int, resultCode: Int, data: Intent?) {  
    recyclerView.adapter.notifyDataSetChanged()  
    super.onActivityResult(requestCode, resultCode, data)  
}
```

This will redraw the lists,  
updating contents



```
class PlacemarkListActivity : AppCompatActivity(), PlacemarkListener {
```

```
    lateinit var app: MainApp
```

```
    ...
```

```
    override fun onOptionsItemSelected(item: MenuItem?): Boolean {  
        when (item?.itemId) {  
            R.id.item_add -> startActivityForResult<PlacemarkActivity>(0)  
        }  
        return super.onOptionsItemSelected(item)  
    }
```

```
    override fun onPlacemarkClick(placemark: PlacemarkModel) {  
        startActivityForResult(intentFor<PlacemarkActivity>().putExtra("placemark_edit", placemark), 0)  
    }
```

```
    override fun onActivityResult(requestCode: Int, resultCode: Int, data: Intent?) {  
        recyclerView.adapter?.notifyDataSetChanged()  
        super.onActivityResult(requestCode, resultCode, data)  
    }  
}
```

Start with no  
placemark (new)

Start with selected  
placemark

PlacemarkActivity  
has finished,  
refresh  
placemarkList



```
class PlacemarkListActivity : AppCompatActivity(), PlacemarkListener {
```

```
    override fun onActivityResult(requestCode: Int, resultCode: Int, data: Intent?) {  
        recyclerView.adapter?.notifyDataSetChanged()  
        super.onActivityResult(requestCode, resultCode, data)  
    }  
}
```



**void**

**notifyDataSetChanged()**

Notifies the attached observers that the underlying data has been changed and any View reflecting the data set should refresh itself.

