

Model Updates

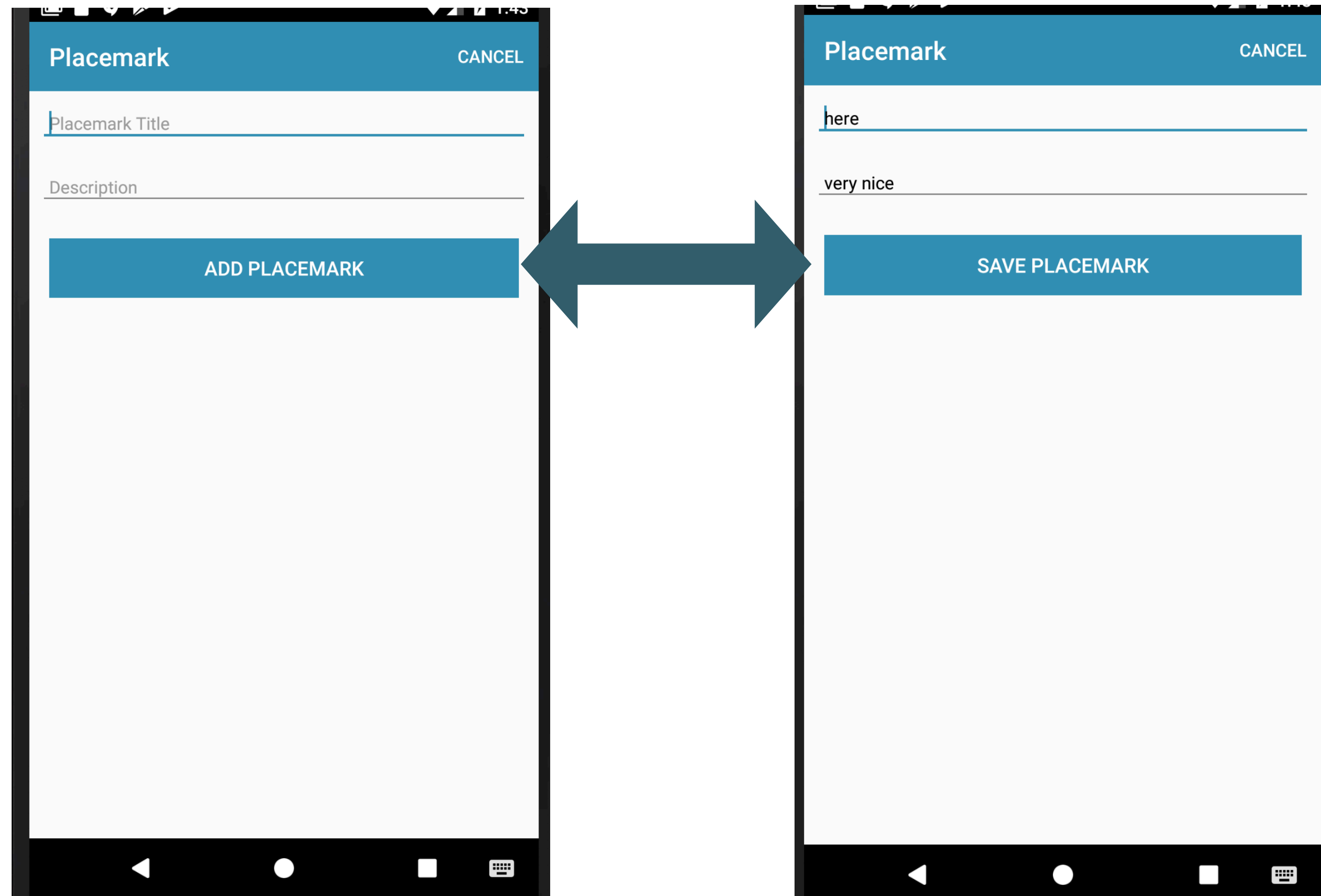
Model Updates



Creating and updating a Placemark. Updating the placemark list.

Exercise 2: Add Button Label

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

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:

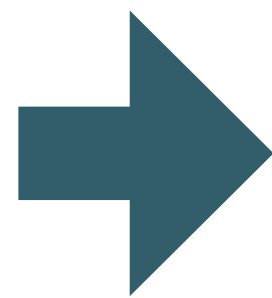
```
if (intent.hasExtra("placemark_edit")) {  
    edit = true  
    placemark = intent.extras.getParcelable<PlacemarkModel>("placemark_edit")  
    placemarkTitle.setText(placemark.title)  
    description.setText(placemark.description)  
    btnAdd.setText(R.string.save_placemark)  
}
```

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:

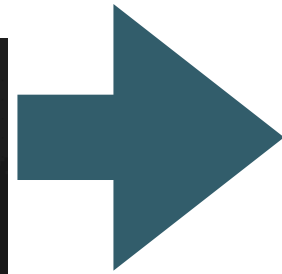
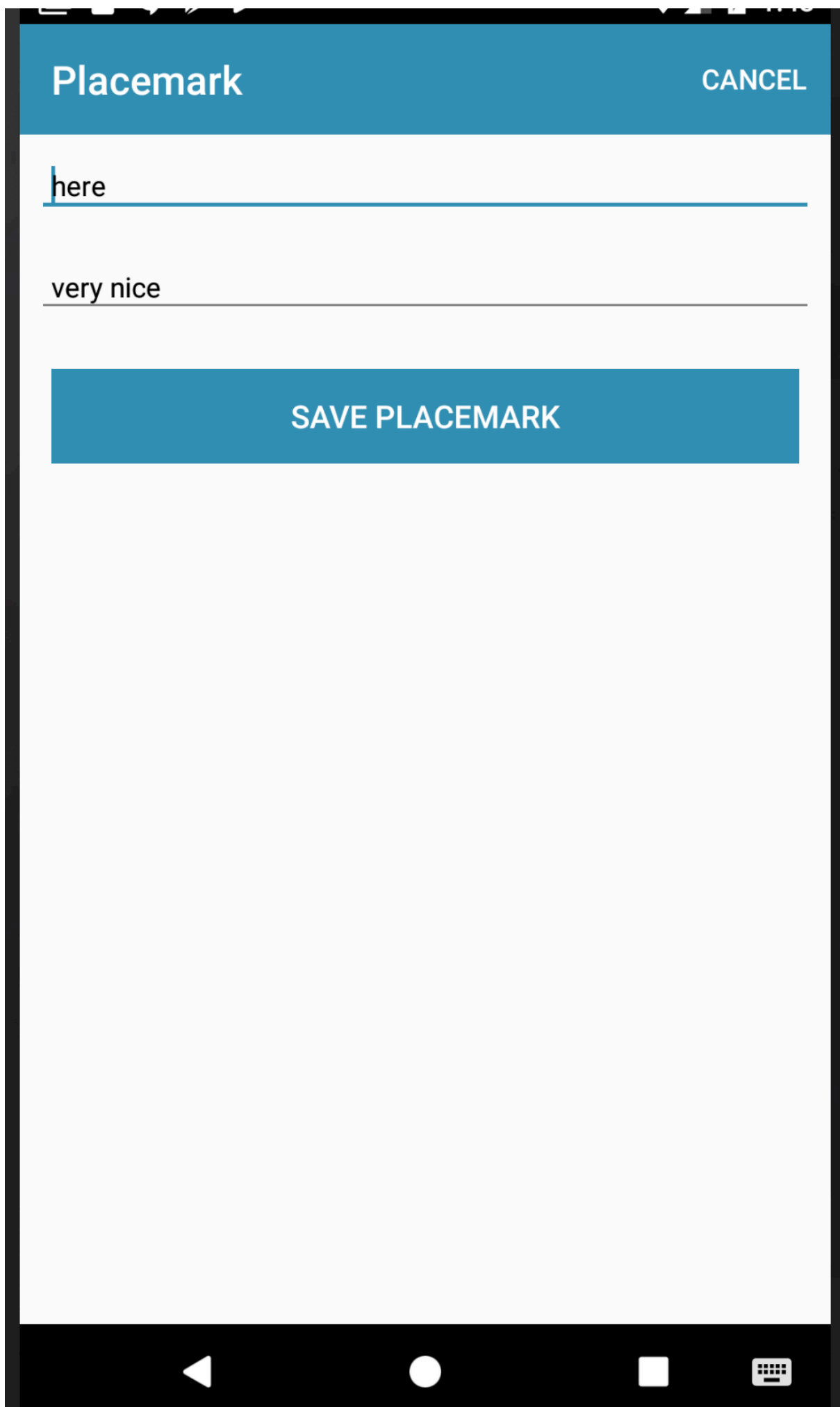
```
...
btnAdd.setOnClickListener() {
    placemark.title = placemarkTitle.text.toString()
    placemark.description = description.text.toString()
    if (placemark.title.isEmpty()) {
        toast(R.string.enter_placemark_title)
    } else {
        if (edit) {
            app.placemarks.update(placemark.copy())
        } 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)  
}
```

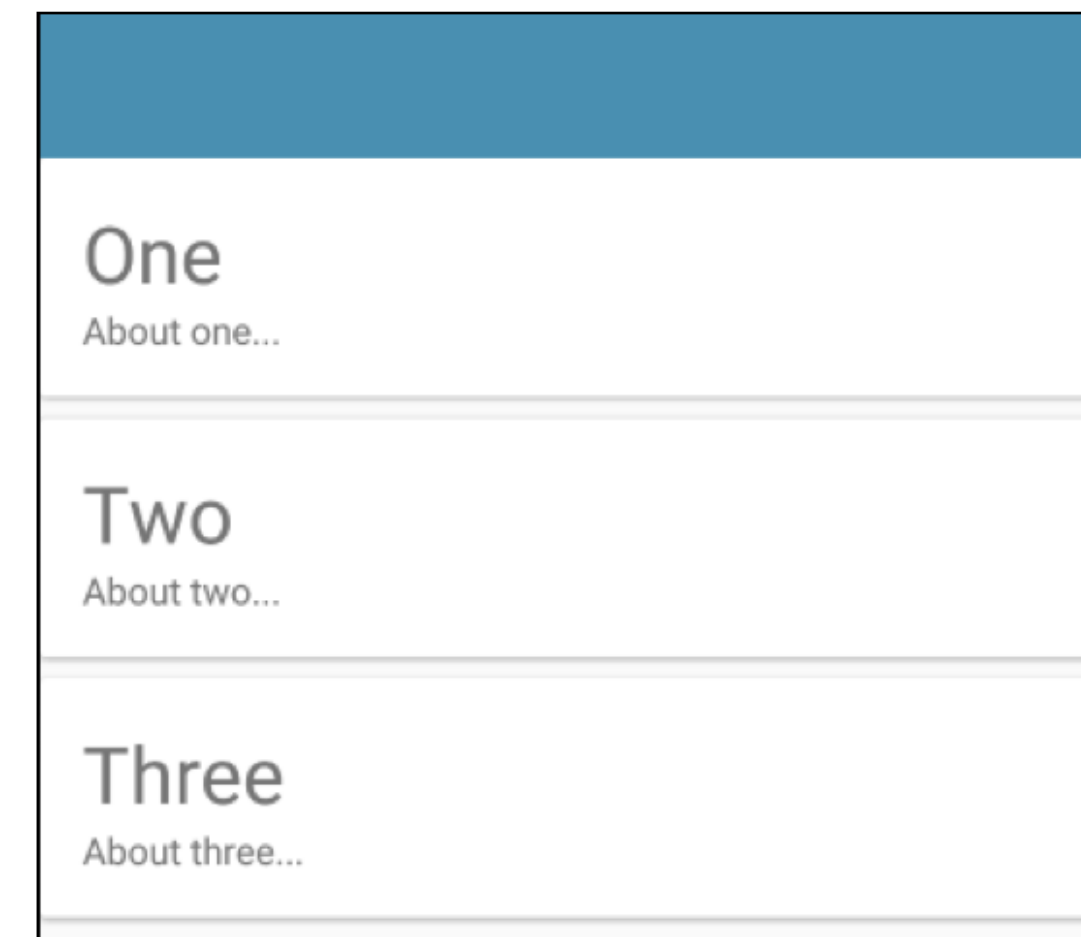
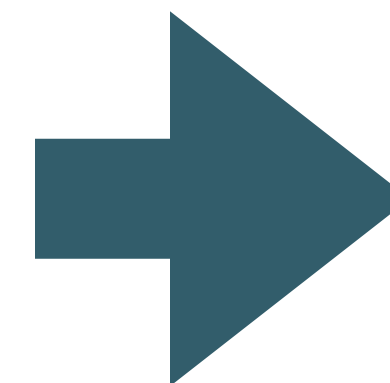
If cancel pressed, end
activity without any update

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)  
    }
```

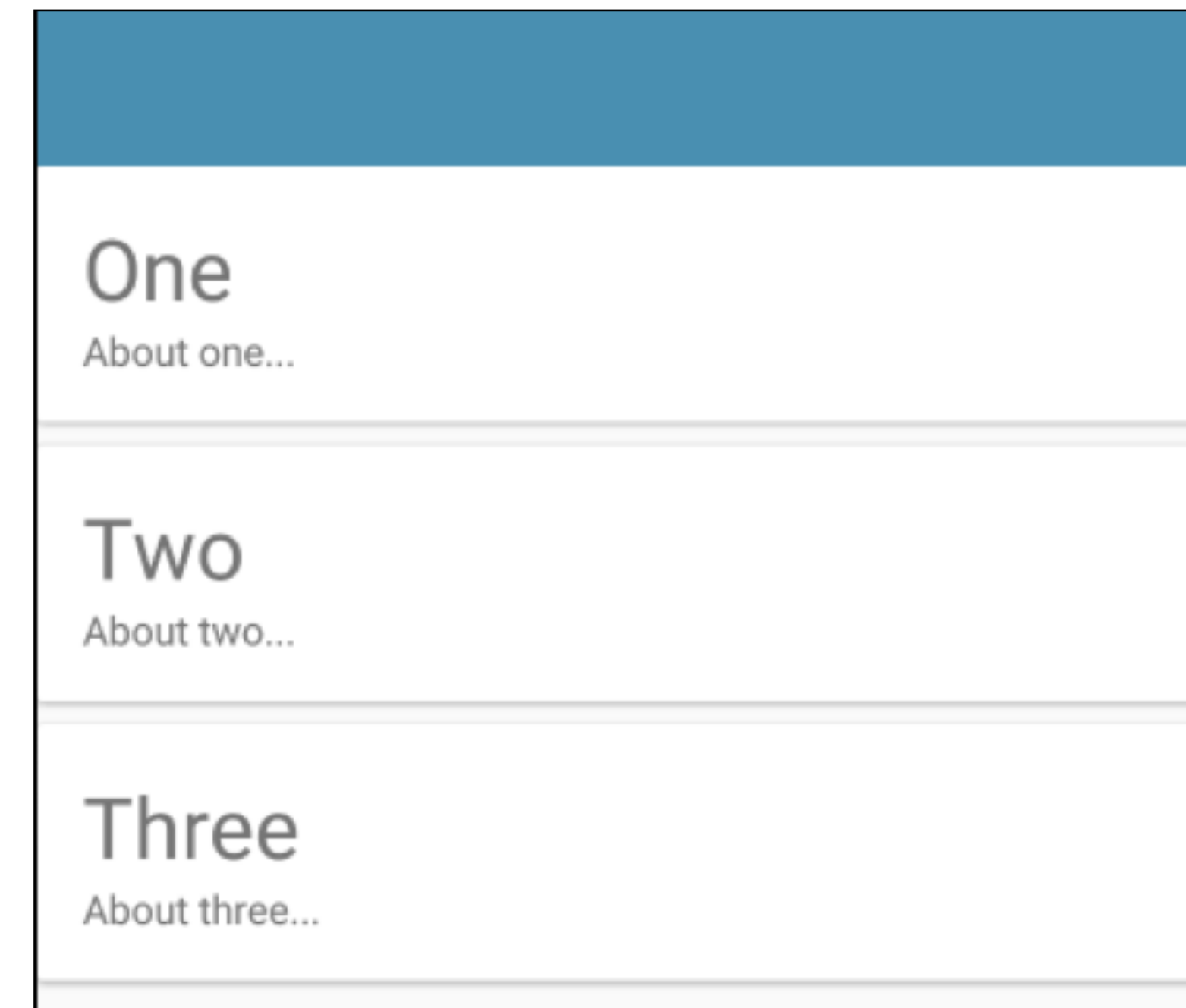
```
    override fun onActivityResult(requestCode: Int, resultCode: Int, data: Intent?) {  
        recyclerView.adapter?.notifyDataSetChanged()  
        super.onActivityResult(requestCode, resultCode, data)  
    }
```

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.