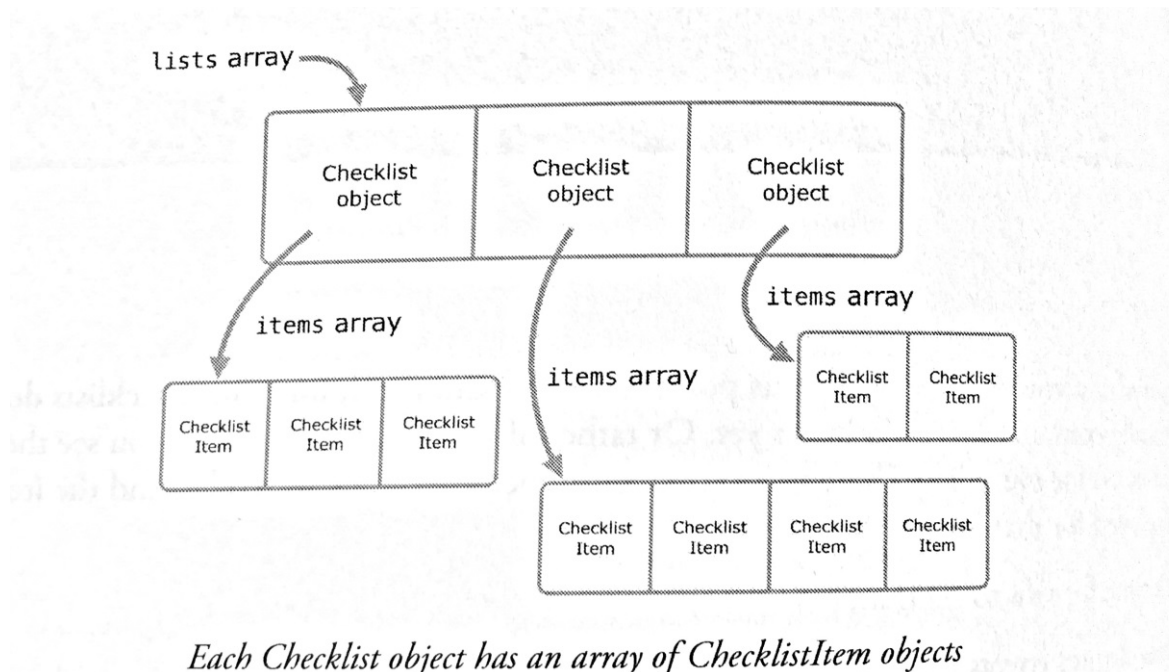


Chapter 17: Improved Data Model

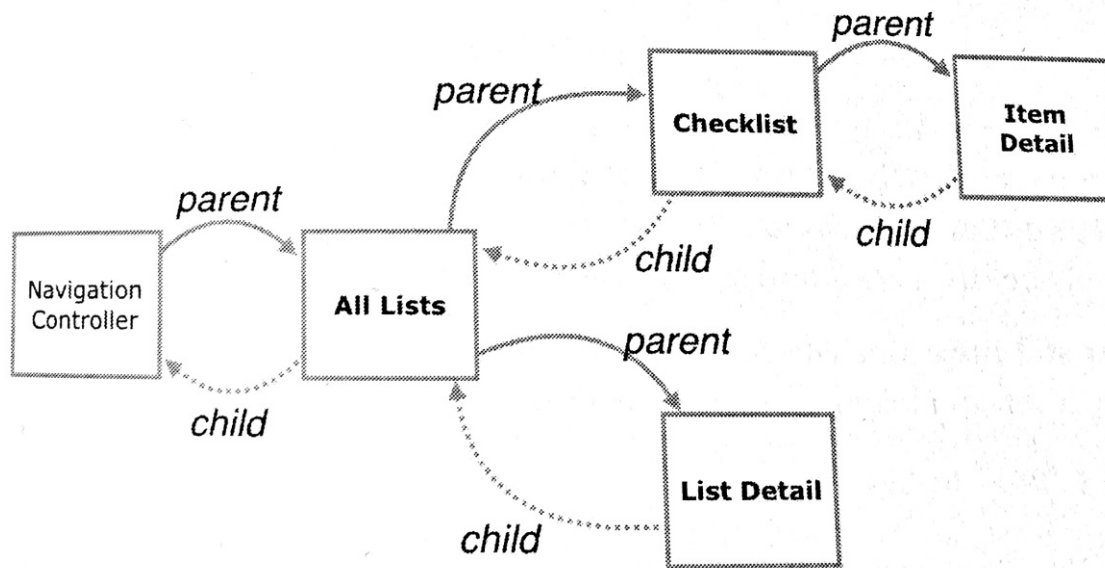
Joshua Humphrey

Nested Arrays



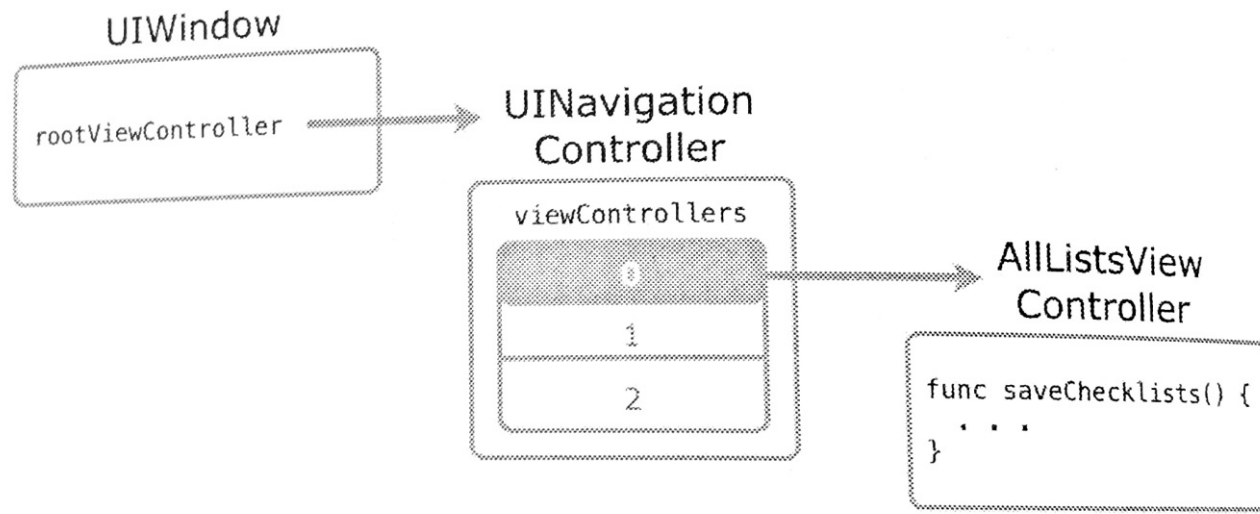
- The data model will be changed to accommodate all the arrays we need.
- To accomplish this, we need to use nested arrays.
- The master array contains the checklist objects, which each object containing its own array of checklist items.

Parent and Children Objects



- A parent is an object higher up in some hierarchy, whereas the child is lower in the hierarchy.
- The hierarchy in our case pertains to the navigation flow between the different screens.
- A child can be dependent on a parent, but it's usually bad coding practice to have a parent be dependent on a child: EX Checklist asking All Lists to do something.

Root View Controller



From the root view controller to the AllListsViewController

- The UI window is the root of all view controllers in most apps.
- From there you can access properties and methods of any view controller by using its index.
- For example, we need to give access to `saveData()` to other parts of the app.
- In our case the navigation controller is the window's root view controller.

Var and Let Expanded

- For normal variables, like integers or strings, var and let work as expected with var being mutable and let being immutable.
- For objects however, let only makes the reference immutable, not the actual object itself. This allows for safe storage of object references
- EX: You can't do this:
let l = 200
l += 1
- EX: You can do this:
let d = DataModel()
let e = d
d.lists.remove(at: 0)
- You can't however assign d to refer to some other object though.