

iOS Workshop

Luke Brody

Building Ethos

- Luke Brody
- Pavonine Software (pavonine.co)
- Teleprompter ★★★★★

Technologies

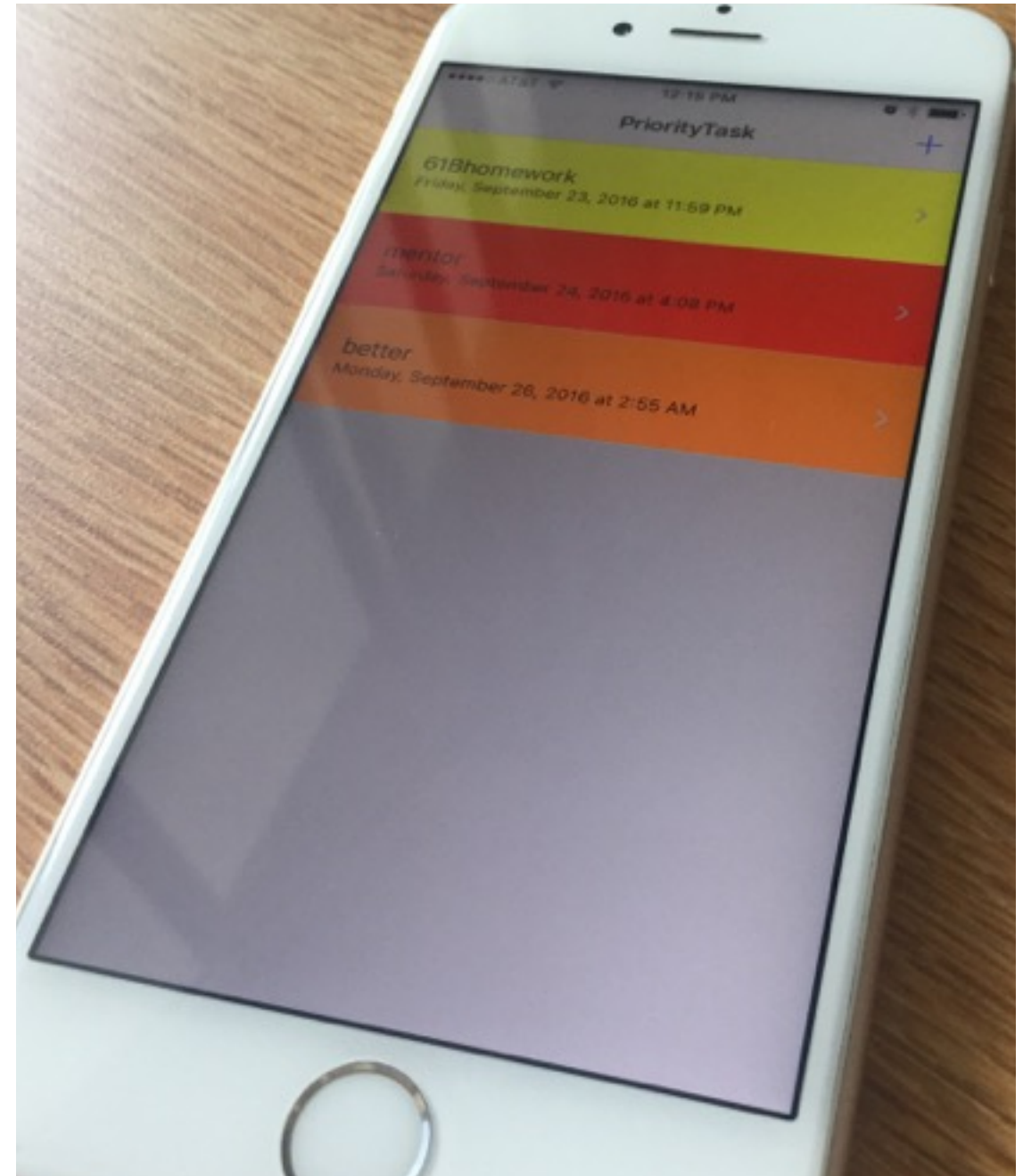
- Language: **Swift 3**
- Library: **Cocoa Touch**
 - Foundation
 - UIKit
- IDE: **Xcode**

Hello, World

Instant Gratification!

PriorityTask

- *Clear* knock-off.
- We're going to make this right now!
- *Demo the App.*



Quick Note

- Feel free to follow along. I'm not going to be pre-coding anything. There's a completed copy of the project at github.com/spudwaffle/PriorityTask
- Keep questions short and on topic. I'll try to answer off the top of my head, otherwise please consult Google/StackOverflow.

How to Start?

- *“Minutes of planning save hours of work.”*

1. Plan the UI.
2. Plan the program.
3. Implement!

I've done the planning for you in this workshop. Do not neglect it!

Start

PriorityTask +

Make iOS Workshop
By tomorrow at 8 PM >

Do Homework
By today at 11 AM >

Make cookies
By Friday at noon >

Task order is based on priority + due date algorithm.

Task colors are based on when it is due.

Swipe-to-delete

Cancel Changes/
Don't Add

Save Changes/
Add

Cancel Add Task Done

Task Name

01/01/01 1:11 PM

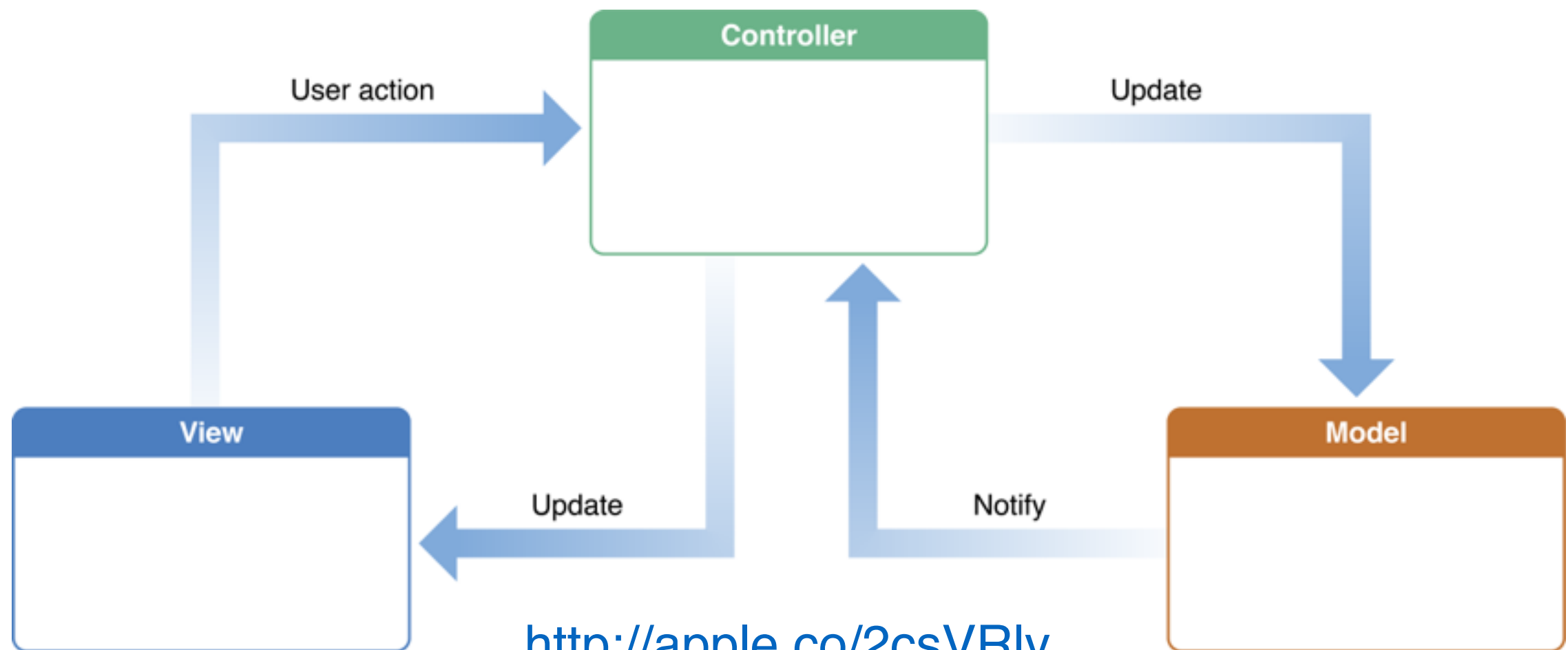
Priority

Date/
Time
Picker

How to design the program?

- *Model-View-Controller*

- Cocoa Touch is based around this, will make our lives easier.



<http://apple.co/2csVRly>

Model Layer

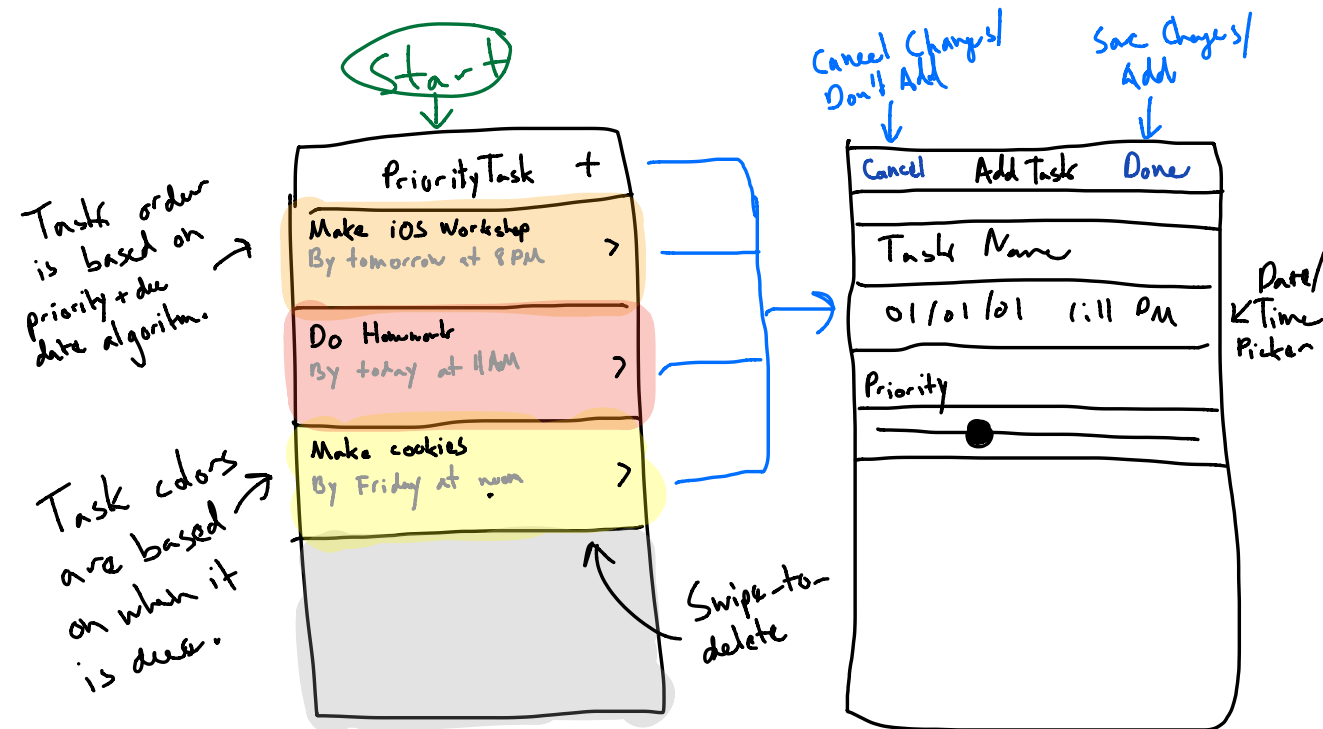
TaskList

- Set of ***Tasks*** —————→
- ➔ Return ordered list of tasks.
- ★ Delete some task.
- ★ Add some task.
- ★ Save to file.
- ★ Load from file.

Task

- UUID
- Name (String)
- Due Date (Date)
- Priority (0 to 1 incl.)

Controller Layer



ListViewController

- Maintains a TaskList
 - Tells TaskList to save before the app closes.
- Maintains a TableView of tasks.
- Pop open the add task view.

TaskViewController

- Handles a task. (Or no task at all.)
- Shown, calls back with a new task if one is created.

Model

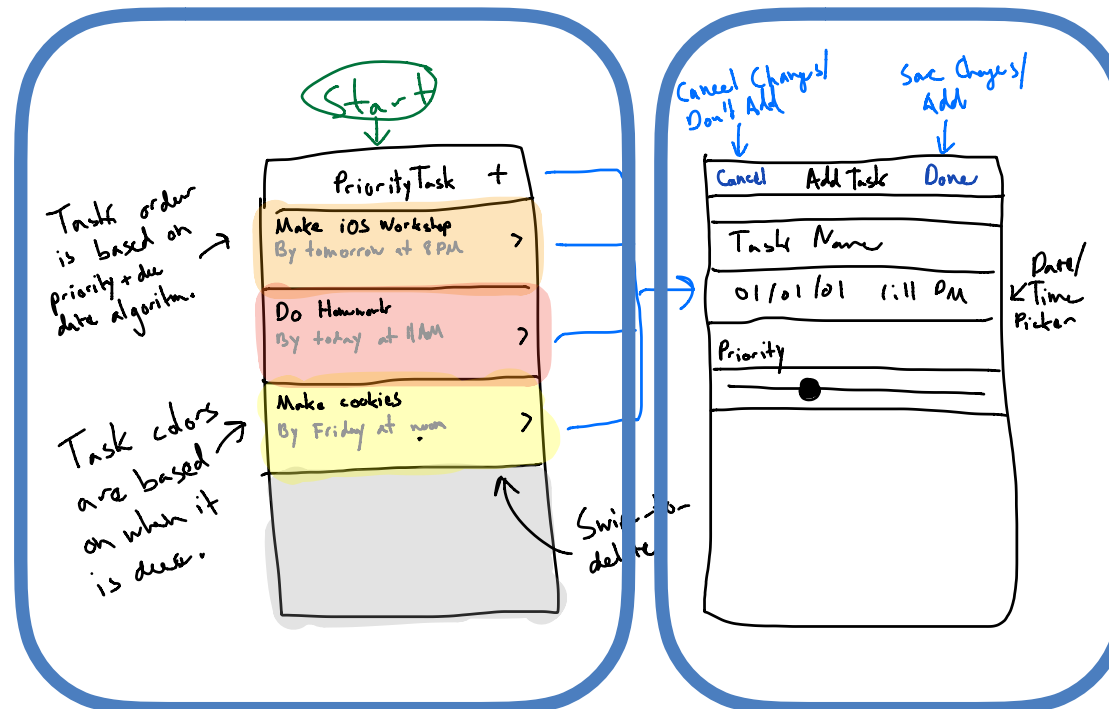
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View



ListViewController

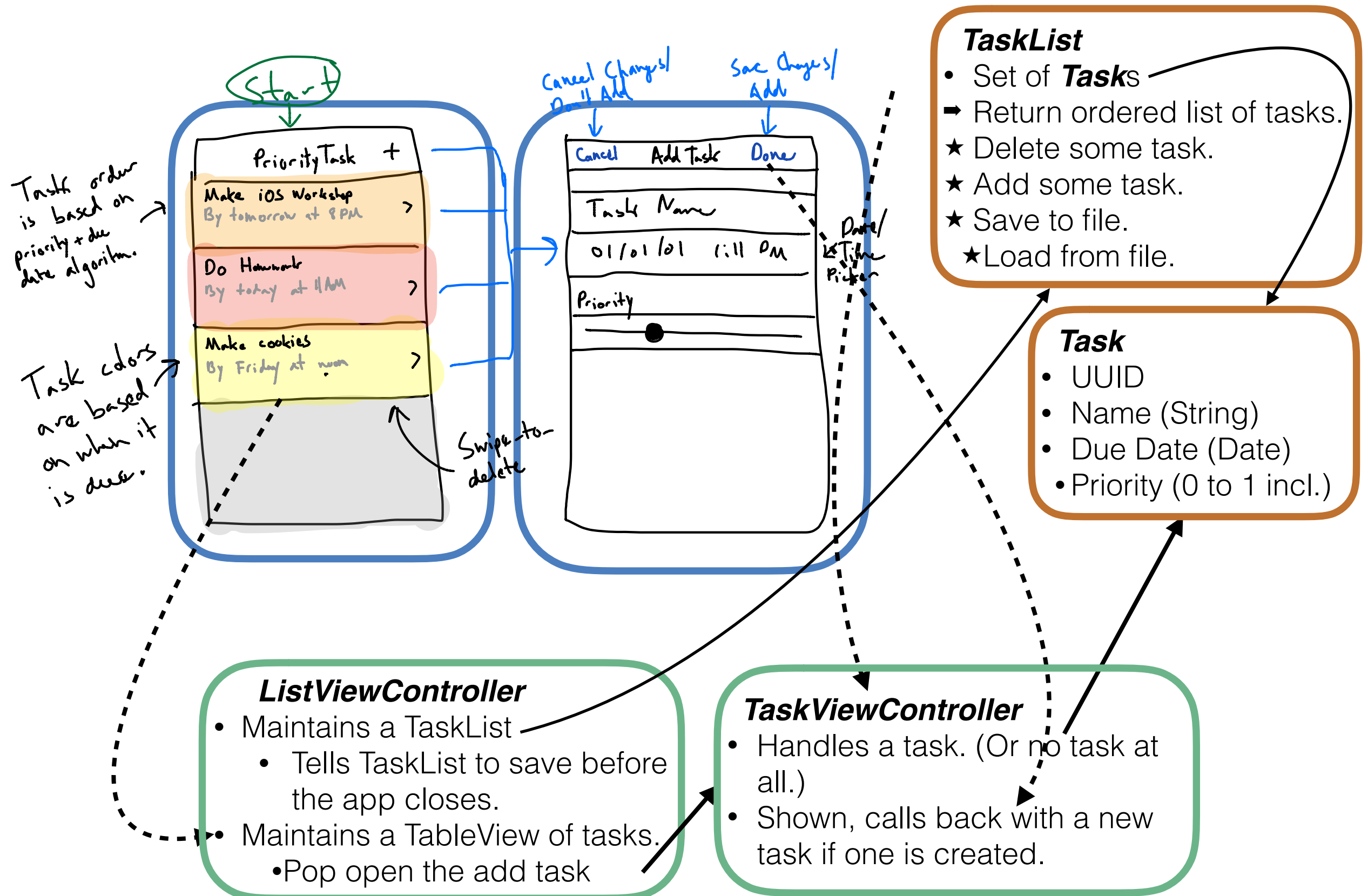
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Controller

Synthesis - The Master Plan



Planning Complete

Let's start coding!