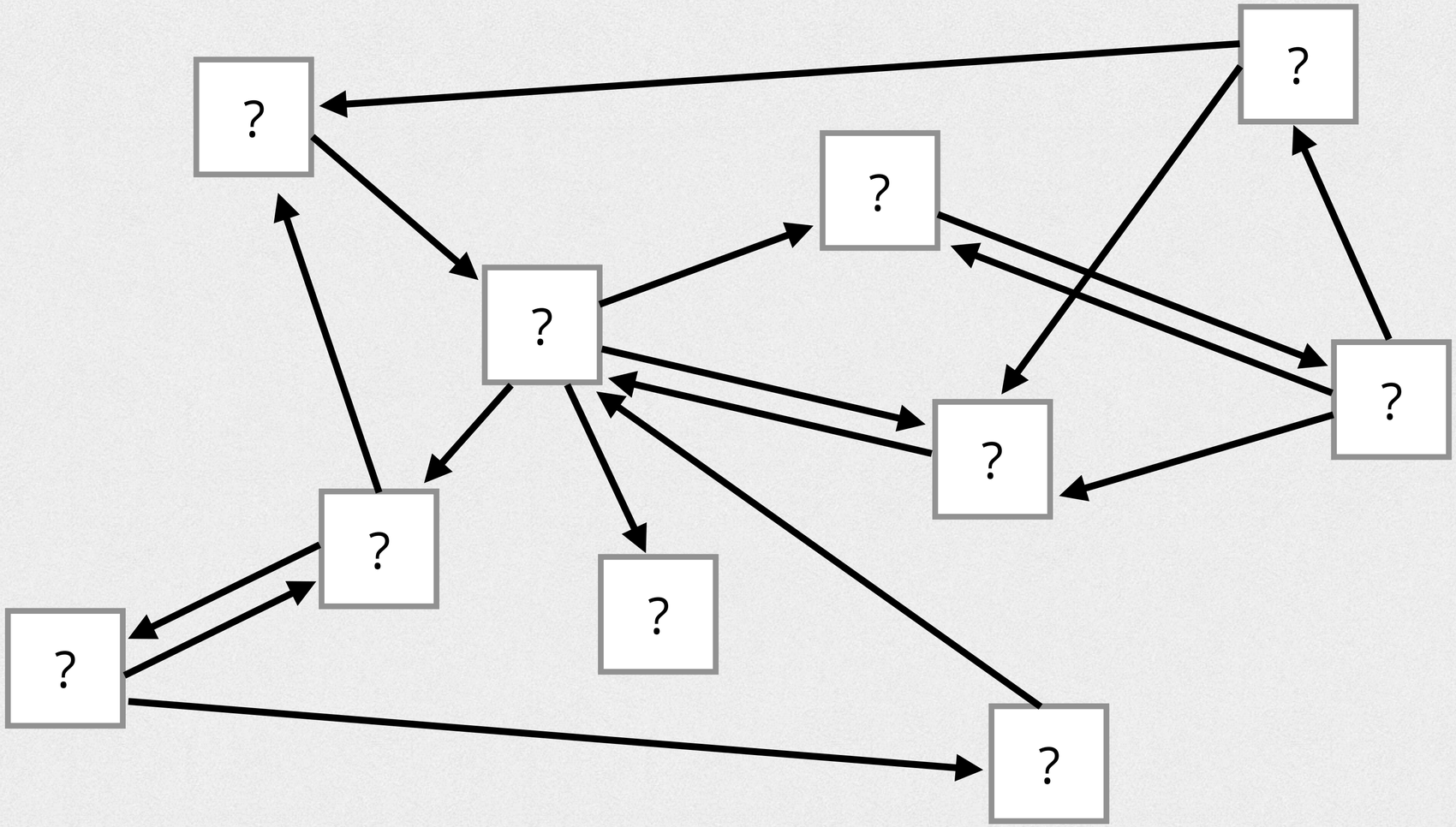
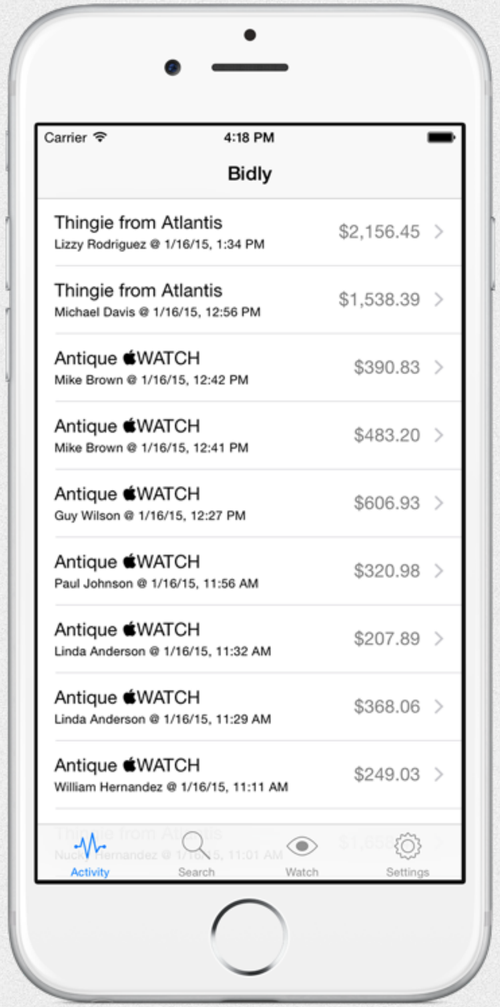
Advanced

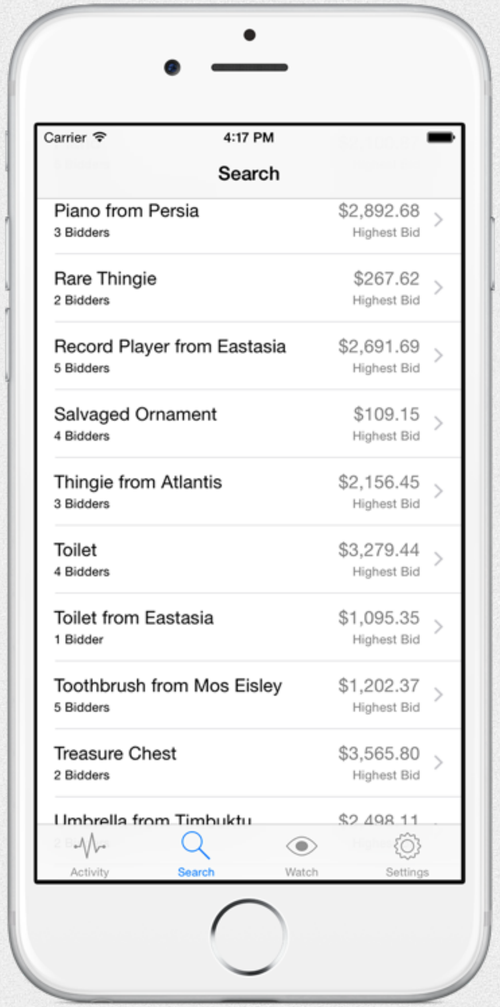
301: App Architecture

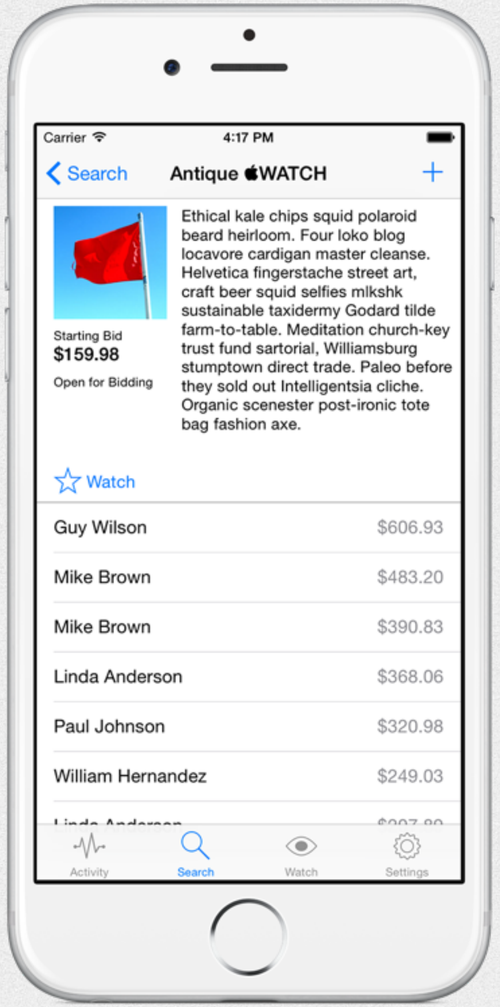
Part 1: Overview

raywenderlich.com



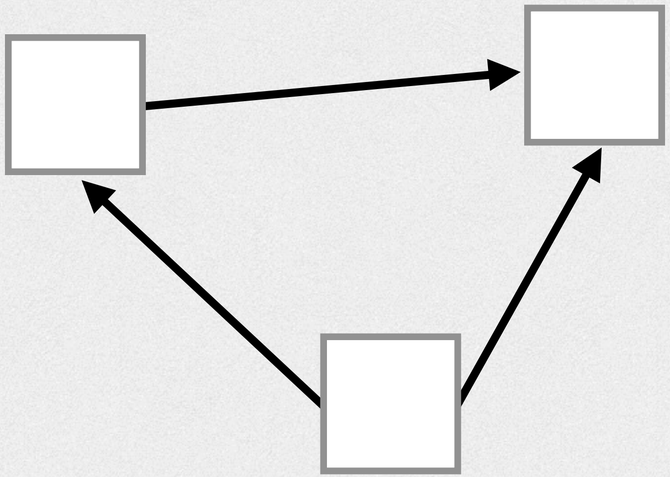

Carrier
4:18 PM
Bidly
Thingie from Atlantis
Lizzy Rodriguez @ 1/16/15, 1:34 PM
$2,156.45
Thingie from Atlantis
Michael Davis @ 1/16/15, 12:56 PM
$1,538.39
Antique WATCH
Mike Brown @ 1/16/15, 12:42 PM
$390.83
Antique WATCH
Mike Brown @ 1/16/15, 12:41 PM
$483.20
Antique WATCH
Guy Wilson @ 1/16/15, 12:27 PM
$606.93
Antique WATCH
Paul Johnson @ 1/16/15, 11:56 AM
$320.98
Antique WATCH
Linda Anderson @ 1/16/15, 11:32 AM
$207.89
Antique WATCH
Linda Anderson @ 1/16/15, 11:29 AM
$368.06
Antique WATCH
William Hernandez @ 1/16/15, 11:11 AM
$249.03
Activity
Search
Watch
Settings

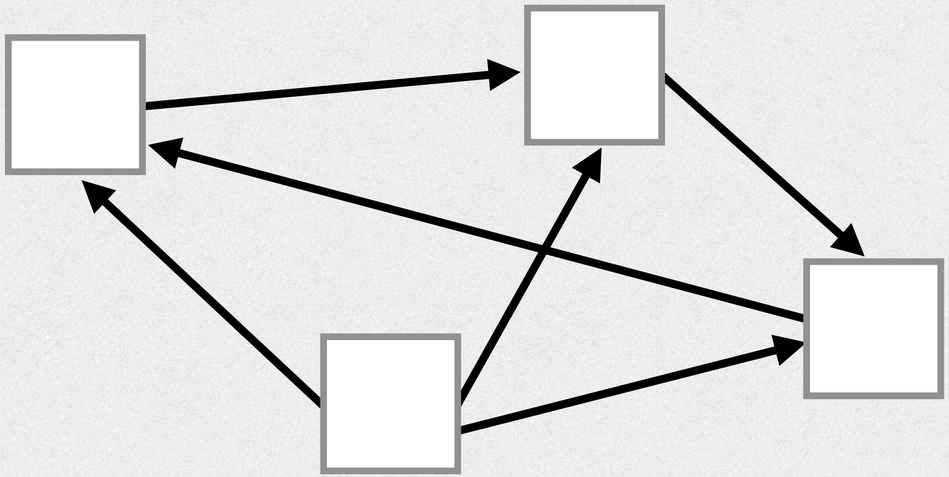

Carrier
4:17 PM
Search
Piano from Persia
3 Bidders
$2,892.68
Highest Bid
Rare Thingie
2 Bidders
$267.62
Highest Bid
Record Player from Eastasia
5 Bidders
$2,691.69
Highest Bid
Salvaged Ornament
4 Bidders
$109.15
Highest Bid
Thingie from Atlantis
3 Bidders
$2,156.45
Highest Bid
Toilet
4 Bidders
$3,279.44
Highest Bid
Toilet from Eastasia
1 Bidder
$1,095.35
Highest Bid
Toothbrush from Mos Eisley
5 Bidders
$1,202.37
Highest Bid
Treasure Chest
2 Bidders
$3,565.80
Highest Bid
Activity
Search
Watch
Settings

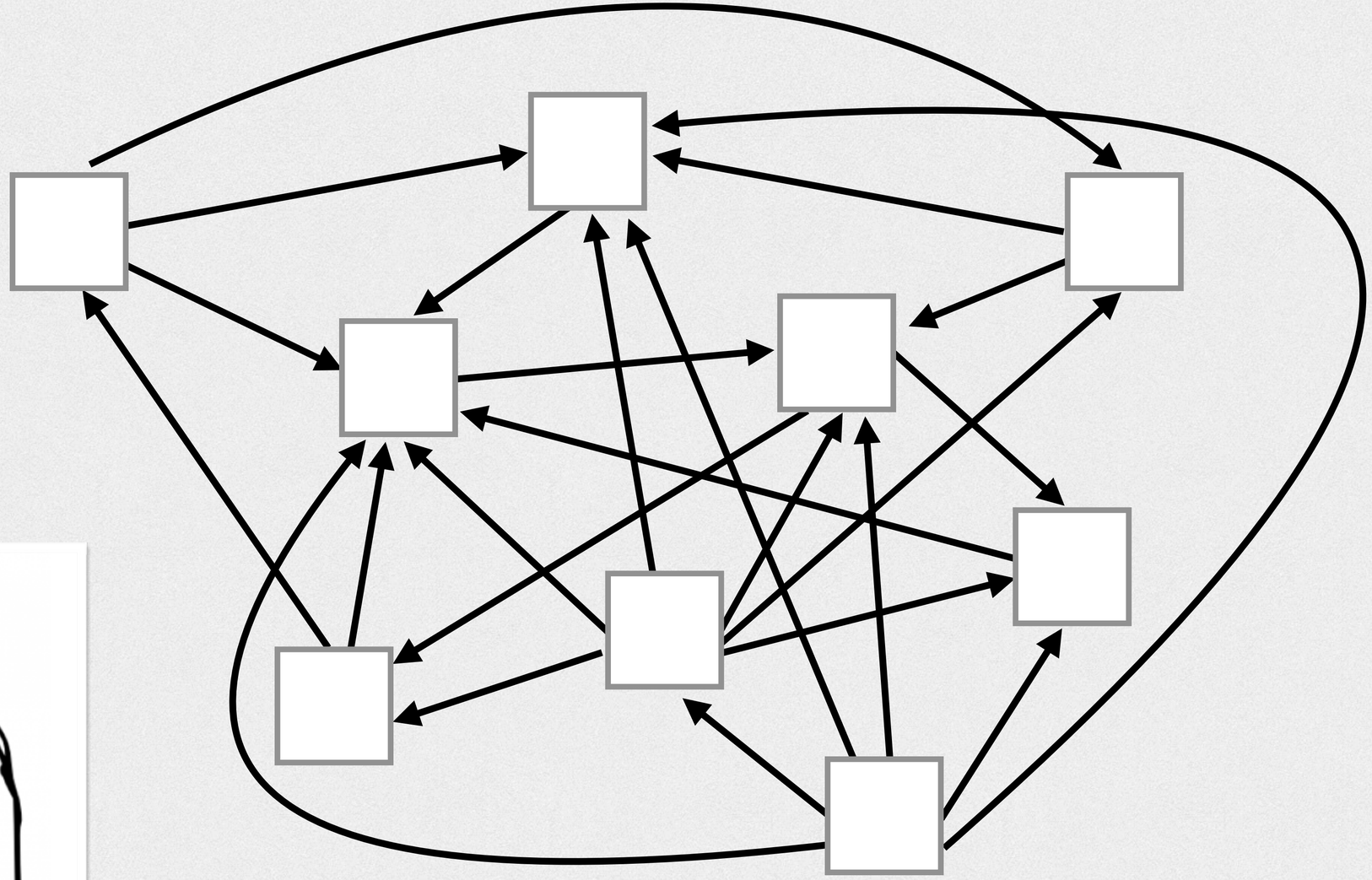

Carrier
4:17 PM
Search
Antique WATCH
Starting Bid
$159.98
Open for Bidding
Ethical kale chips squid polaroid beard heirloom. Four loko blog locavore cardigan master cleanse. Helvetica fingerstache street art, craft beer squid selfies mlkshk sustainable taxidermy Godard tilde farm-to-table. Meditation church-key trust fund sartorial, Williamsburg stumptown direct trade. Paleo before they sold out Intelligentsia cliche. Organic scenester post-ironic tote bag fashion axe.
Watch
Guy Wilson
$606.93
Mike Brown
$483.20
Mike Brown
$390.83
Linda Anderson
$368.06
Paul Johnson
$320.98
William Hernandez
$249.03
Activity
Search
Watch
Settings

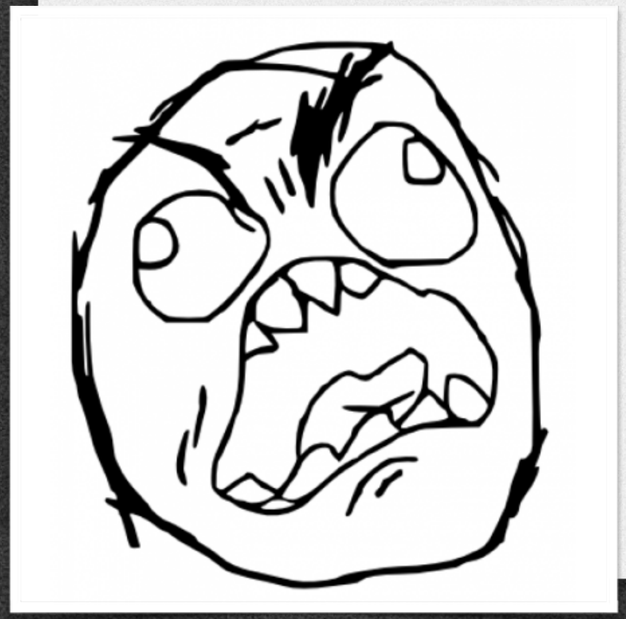
Tutorial Overview

- What is architecture?
- What is wrong with the app?
- **Demo**: Improve domain model 30 min
- **Lab**: Extract networking 15 min
- **Challenges**: Persistence and Presentation 15 min

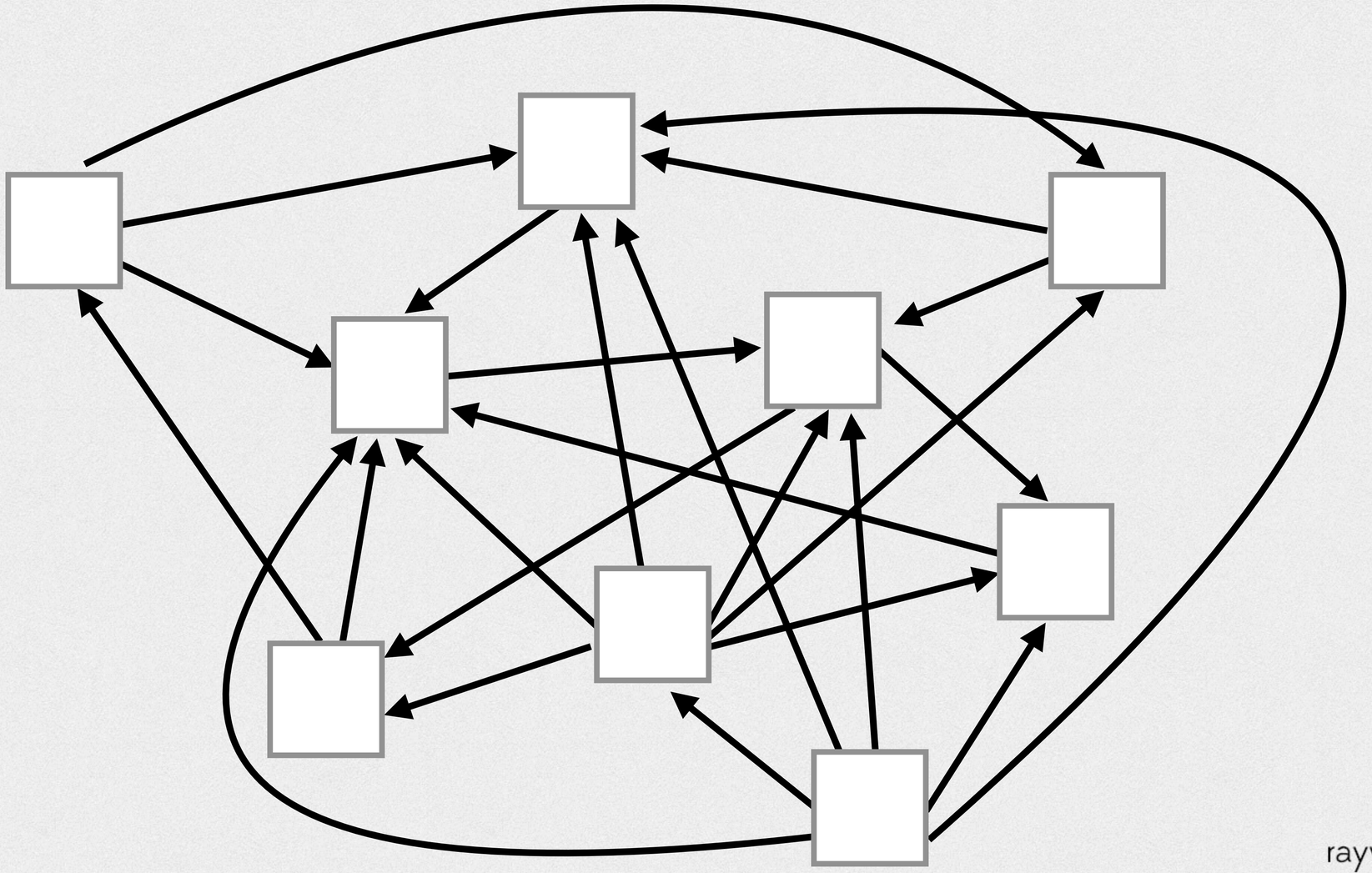




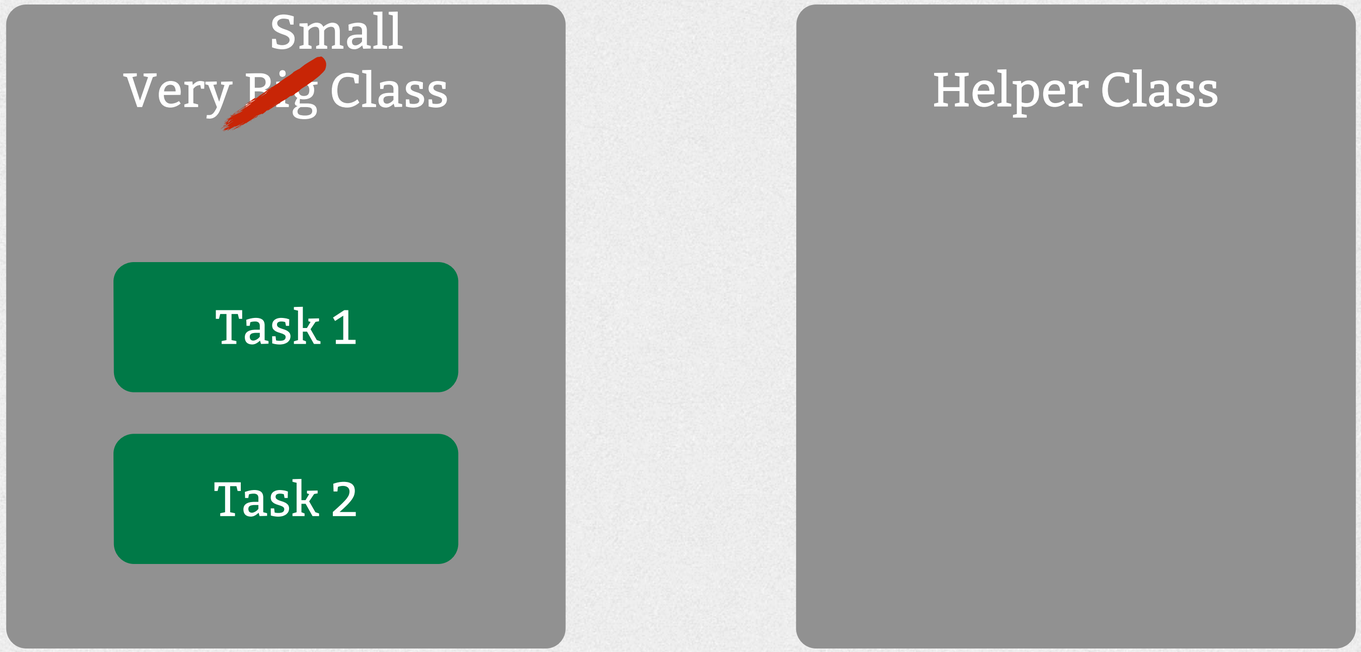




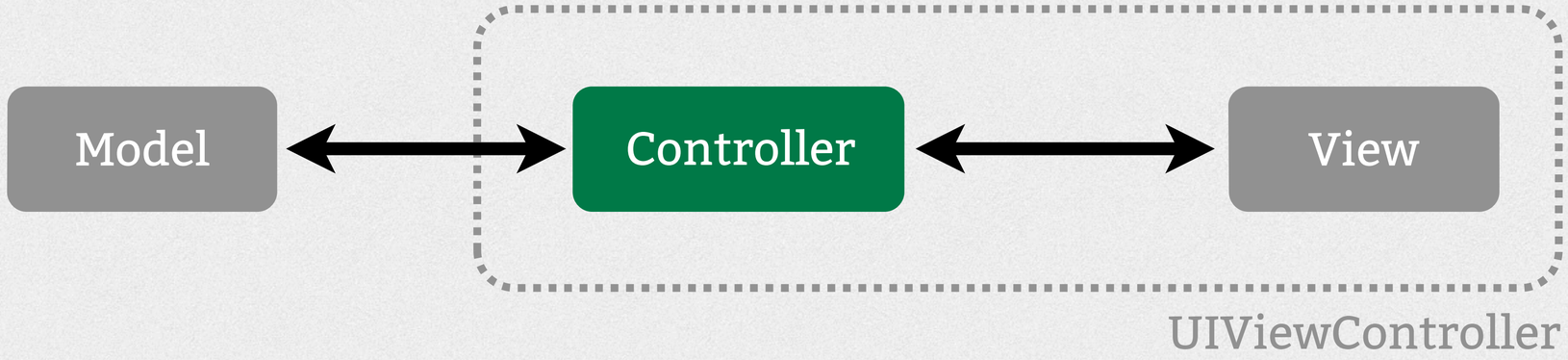
Decoupling



Separation of Responsibilities



Model-View-Controller (MVC)



A typical app

- Handling Domain Data
- Domain Logic (Business Logic)
- Networking
- Syncing with External Service
- Reachability
- Error Handling
- Data Storage
- Caching
- Schema Migration
- Paging for Large Data Sets
- Format Conversion
- Presentation Logic
- Input Validation
- Handling UI Events
- Drawing UI Controls
- Preferences and Settings
- Authentication (Login)
- Location, Photos, Contacts

Advanced

301: App Architecture

Part 2: Live Demo