CSIS 612 - Final Project

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Overview

- Topics
- The Project
 - Idea, Inspiration, UI, and Implementation
- Demo
- Lessons Learned
- Future Work

Topic

- Memory Hierarchy
 - Caching 2 levels
- Data Level Parallelism
- Thread Level Parallelism

The Project - Idea

Build a simulation "game" that can be used as an instructional tool to represent the chosen topics.

- Users can step through the simulation to observe all working parts
- Personal Goal: Something with a medical context

The Project - Inspiration

- Task Management games
 - Diner Dash
 - Farmville

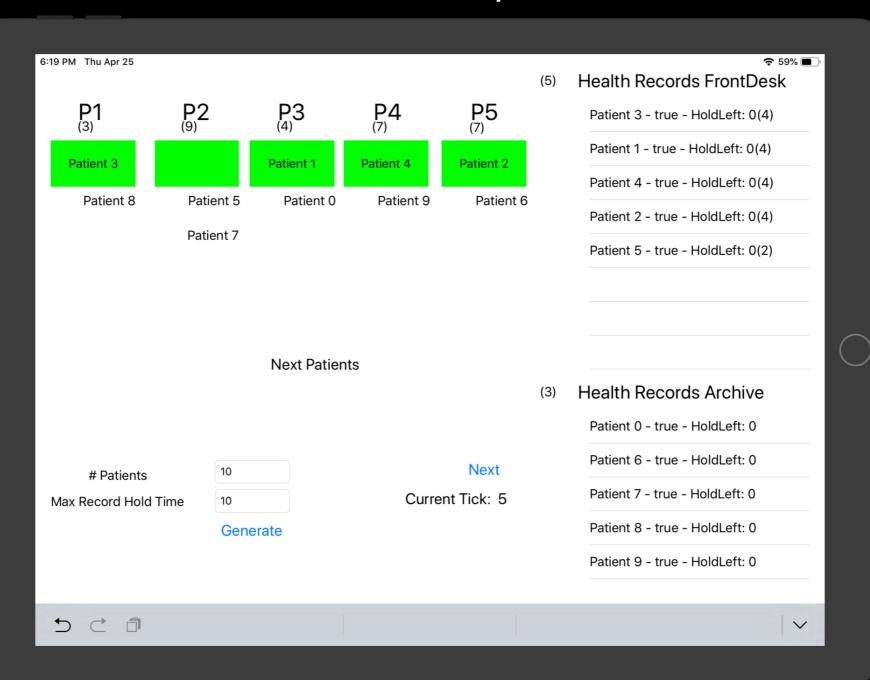




http://cdn.ghstatic.com/images/screens/2010/1/3.jpg

The Project - Ul

VERY simple



Next Patients

Next 10 # Patients Current Tick: 5 Max Record Hold Time 10

Generate

Patient 0 - true - HoldLeft: 0 Patient 6 - true - HoldLeft: 0 Patient 7 - true - HoldLeft: 0 Patient 8 - true - HoldLeft: 0

Patient 9 - true - HoldLeft: 0

Health Records Archive

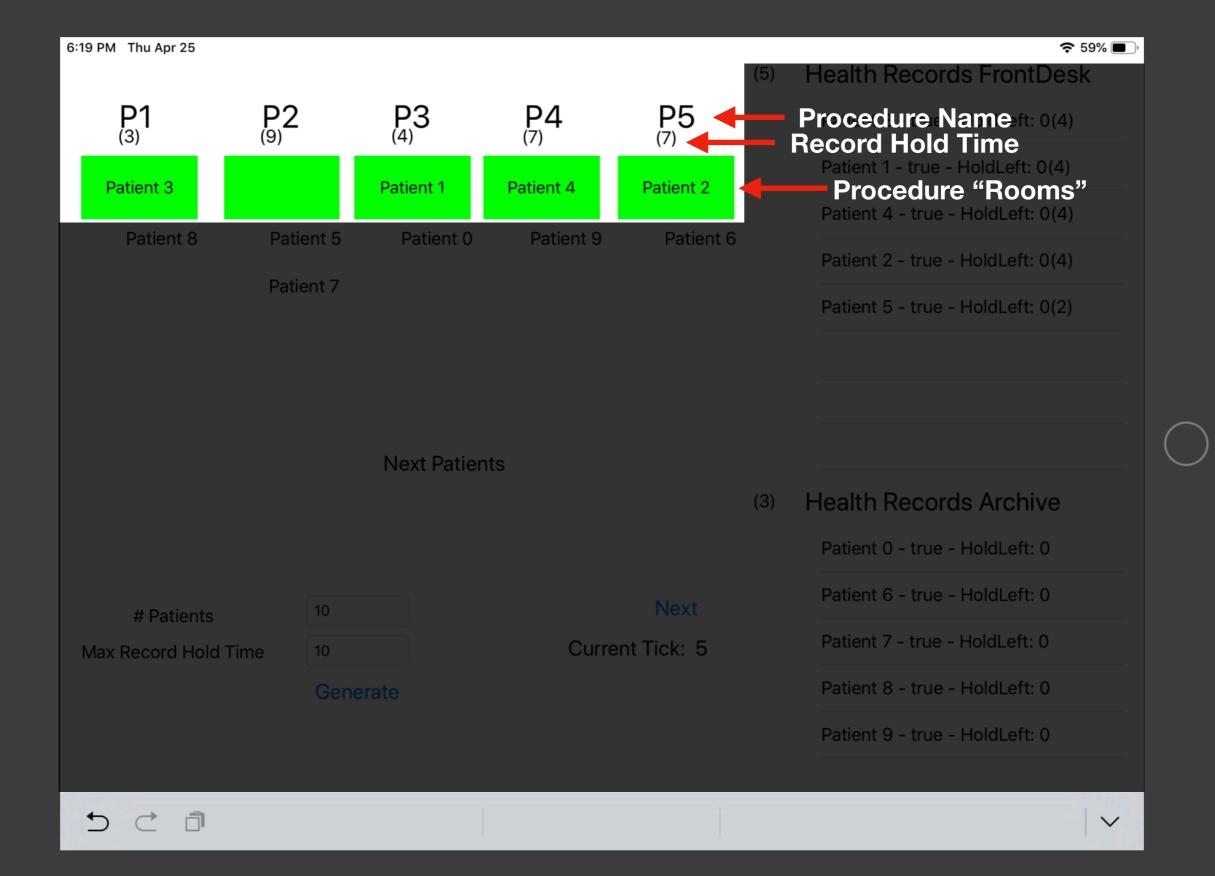
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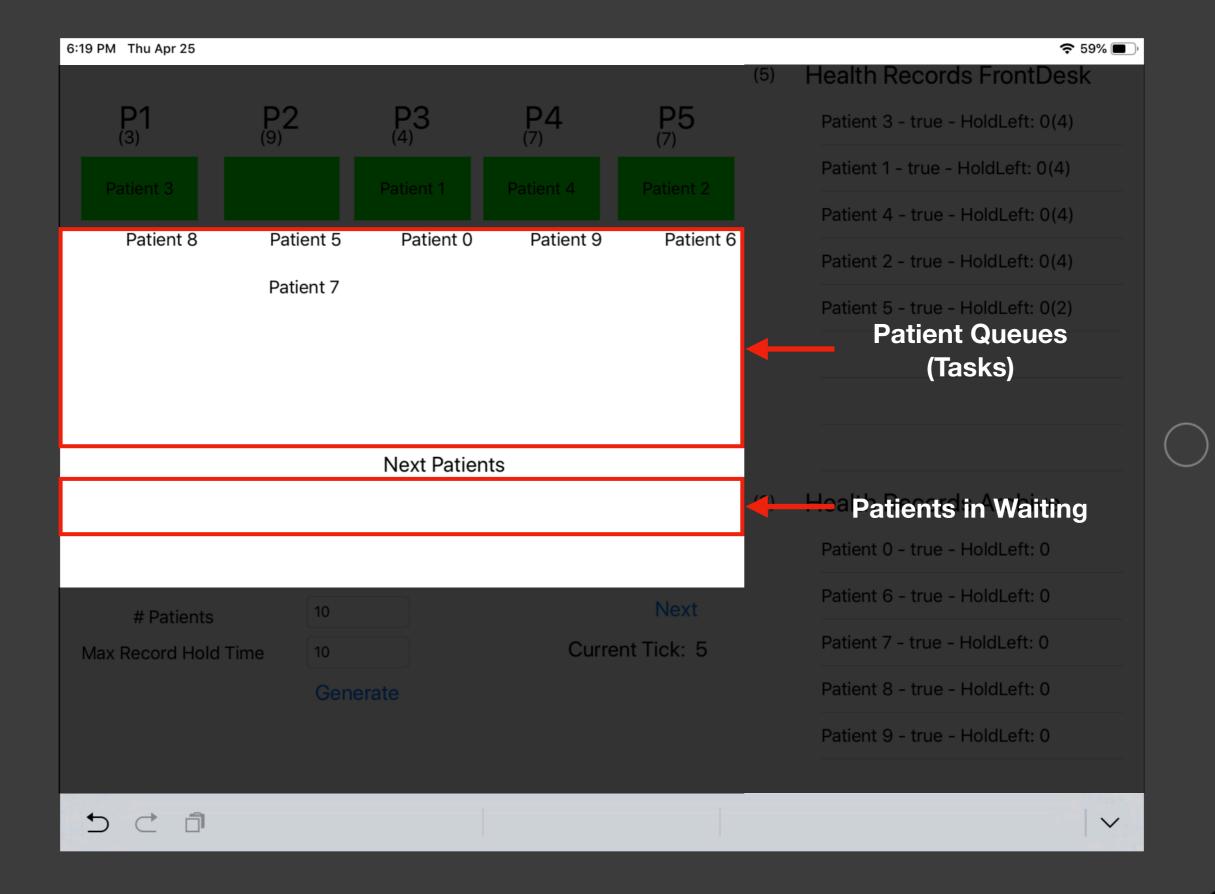


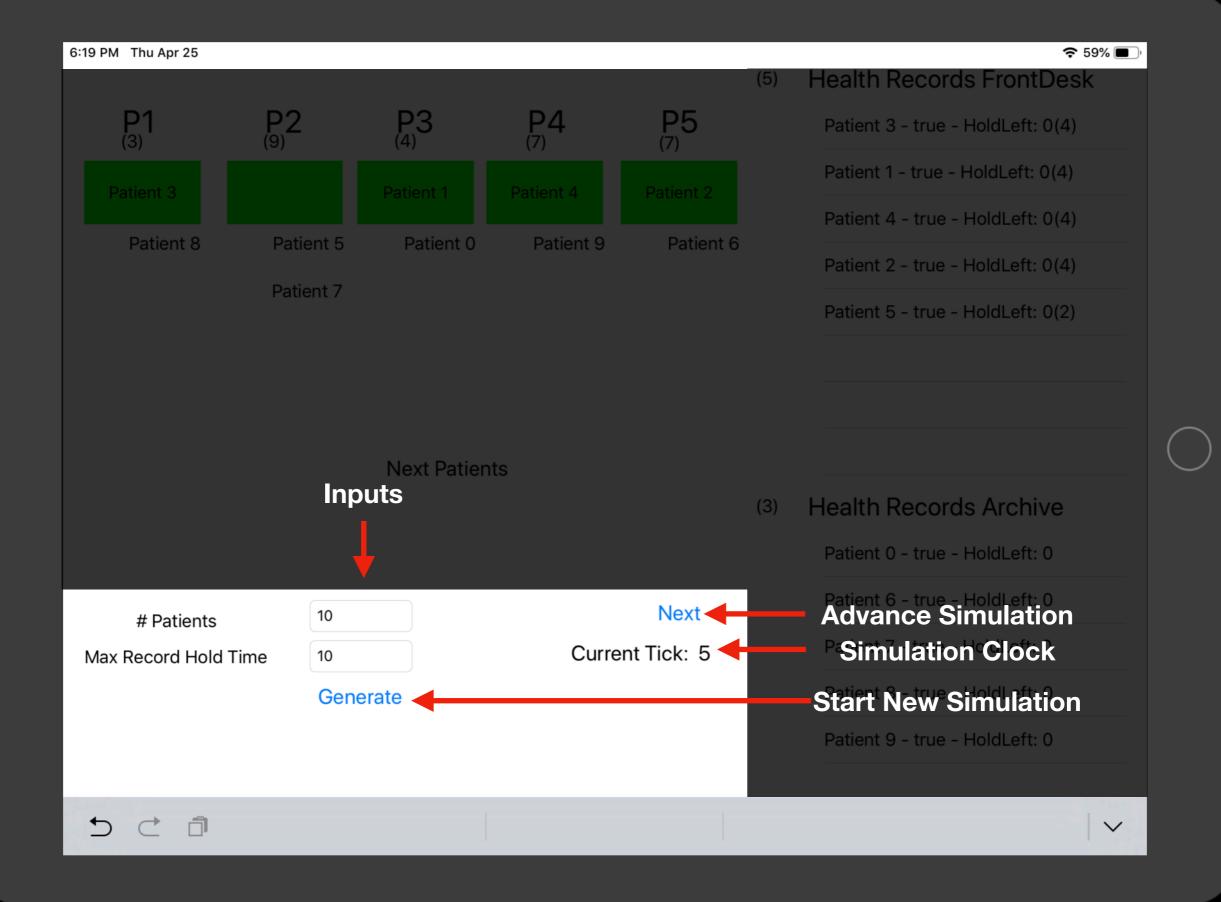


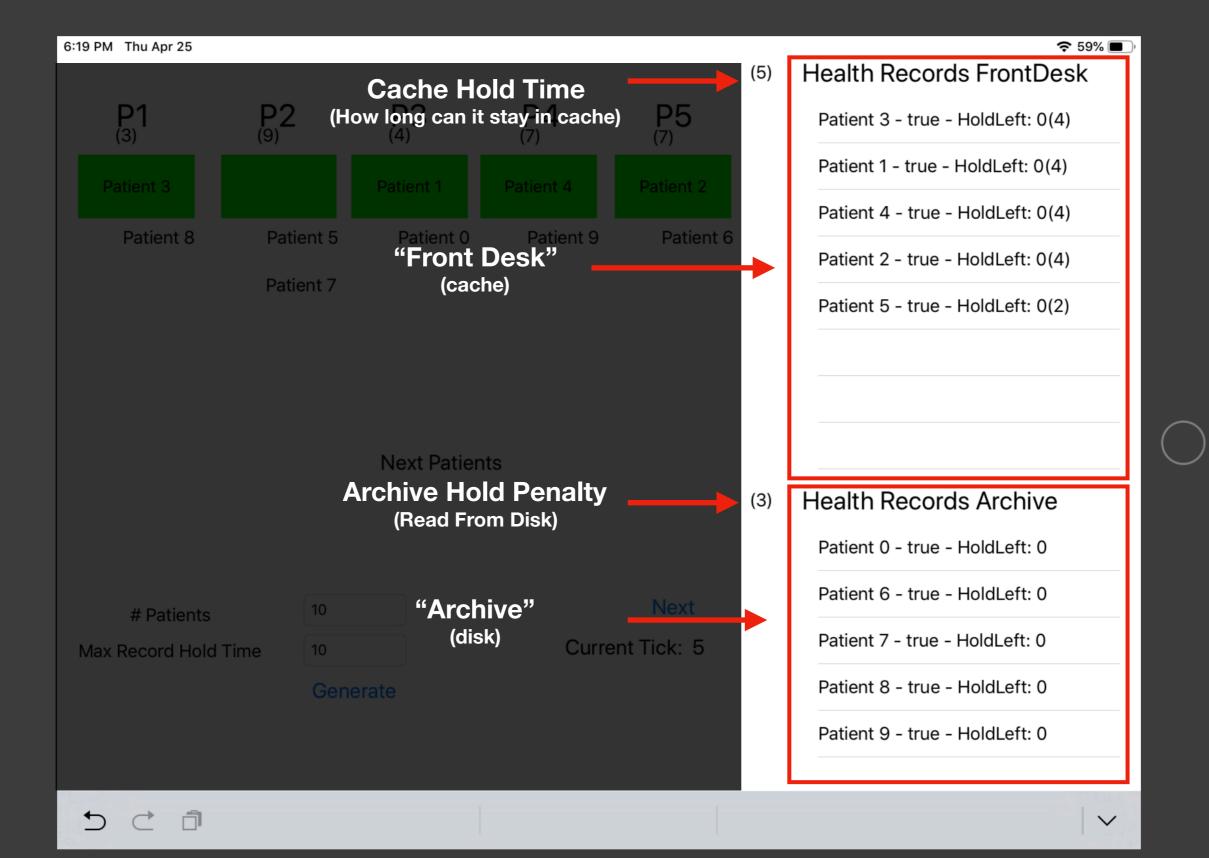


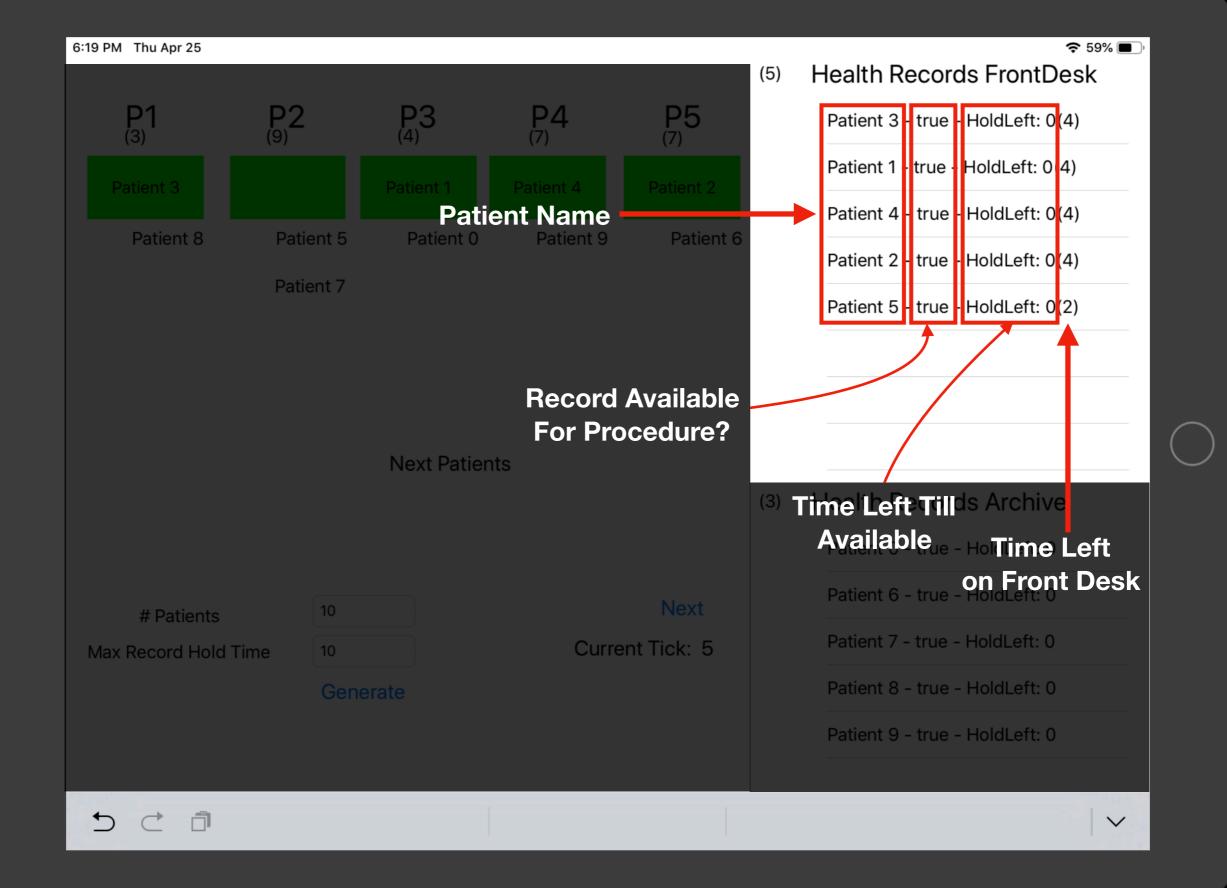












Next Patients

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Health Records Archive

(3)









The Project -Implementation

- Language: Swift
- iOS platform
 - iPad Pro (9.7in) specifically

DEMO!!

Lessons Learned

- There are no "great" libraries available to deal with displaying a simple grid for iOS
 - Recommenced UICollectionView objects are sophisticated & robust but make SIMPLE grids hard to implement

Future Work

- Saving state!! (Enable a previous button)
- Use images instead of labels for a better UI experience
- Longer queues for procedures
- Create a "UISimpleGridView" library for Cocoapods





The End

(Thank You)