



Knight Foundation
School of Computing
and Information Sciences

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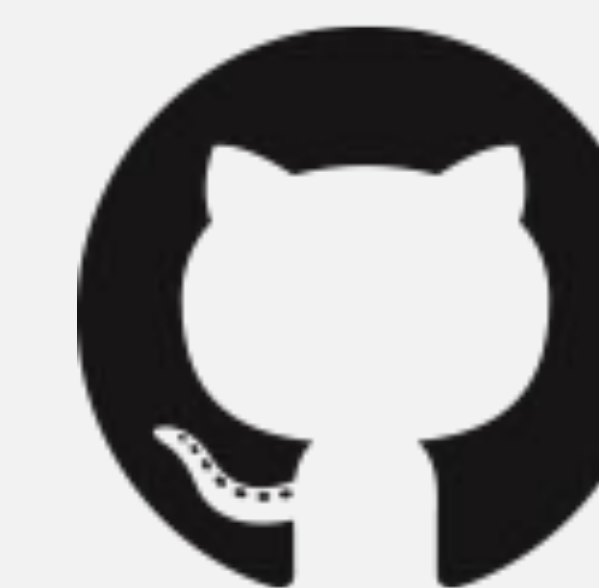
Fall 2022 Senior Design Project

Apple Watch Weight App

Students: David Lara

Mentor: Jessica Ramella

Instructor/Faculty: Dr. Masoud Sadjadi, Florida International University



PROBLEM

The product owner is developing a weight scale with bluetooth and needs an application to easily view previous weight recordings on an Apple Watch

CURRENT SYSTEM

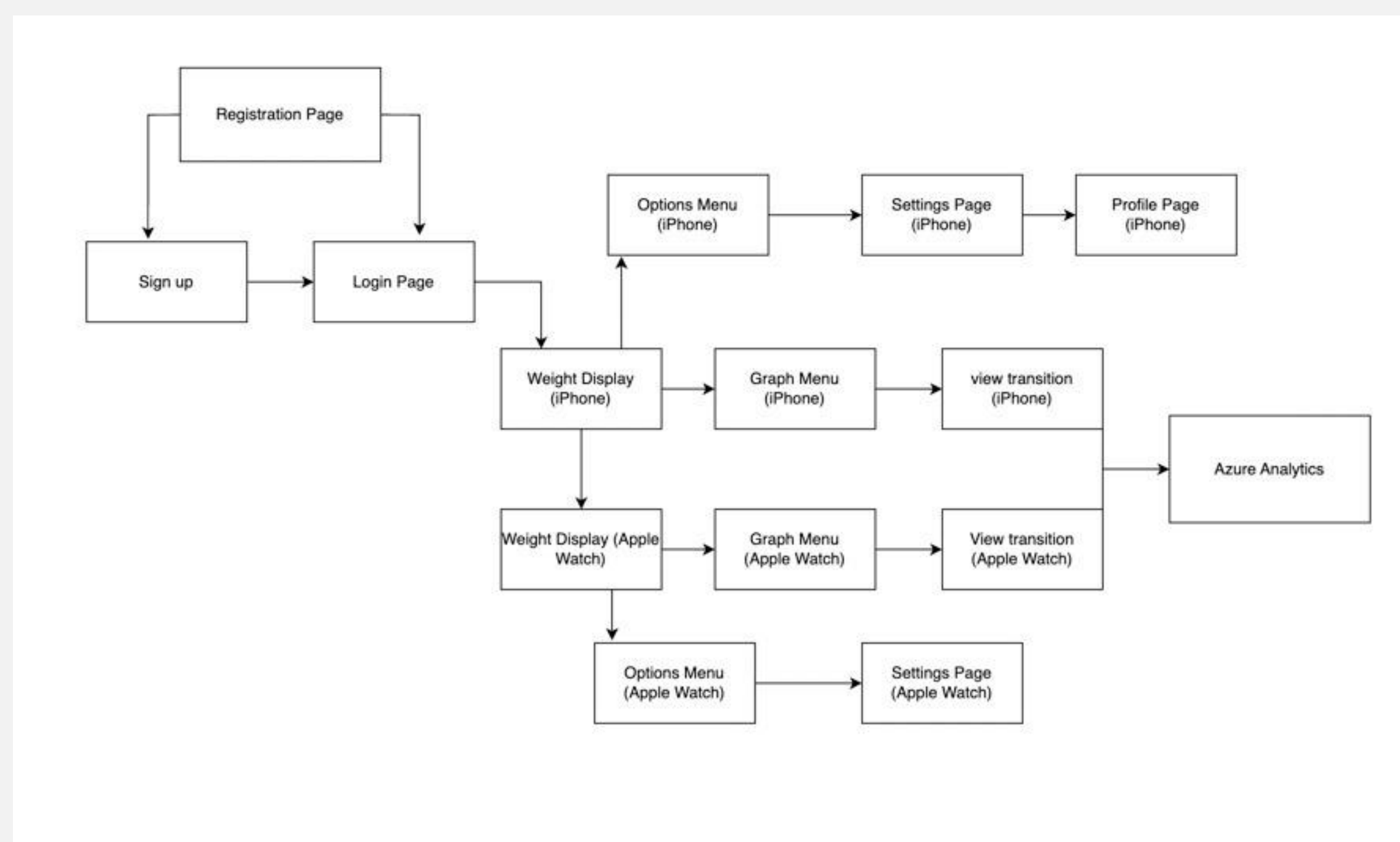
- Newly created iOS and watchOS applications developed using SwiftUI and Xcode
- Features registration options via the iOS app to store weight recordings
- Displays previous weight recordings on 24-hour
- Currently does not connect to physical scale

REQUIREMENTS

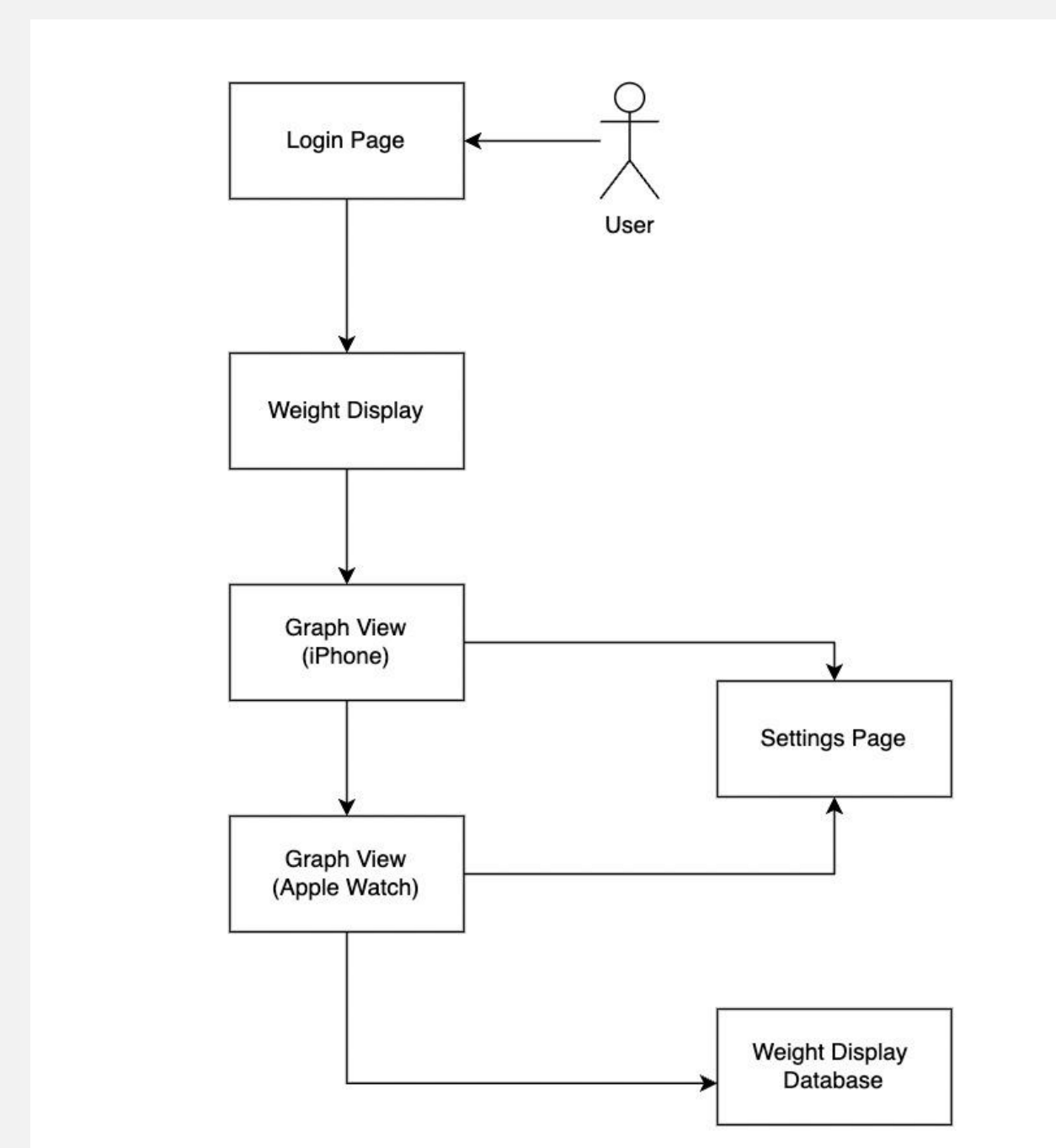
Software:

- macOS v12.5+
- iOS v16+
- watchOS v9+
- Xcode v14+
- GitHub

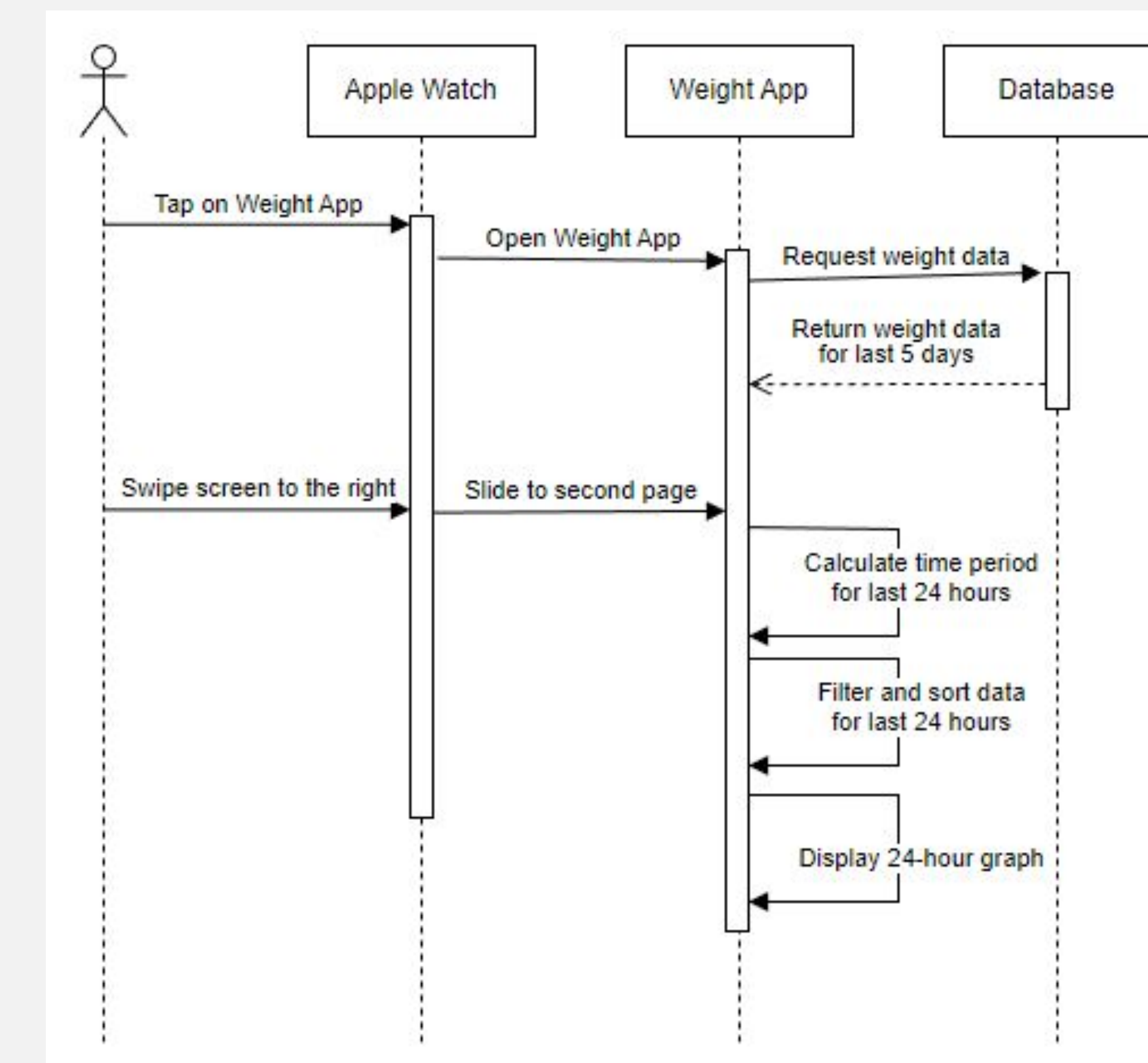
SYSTEM DESIGN



OBJECT DESIGN



IMPLEMENTATION



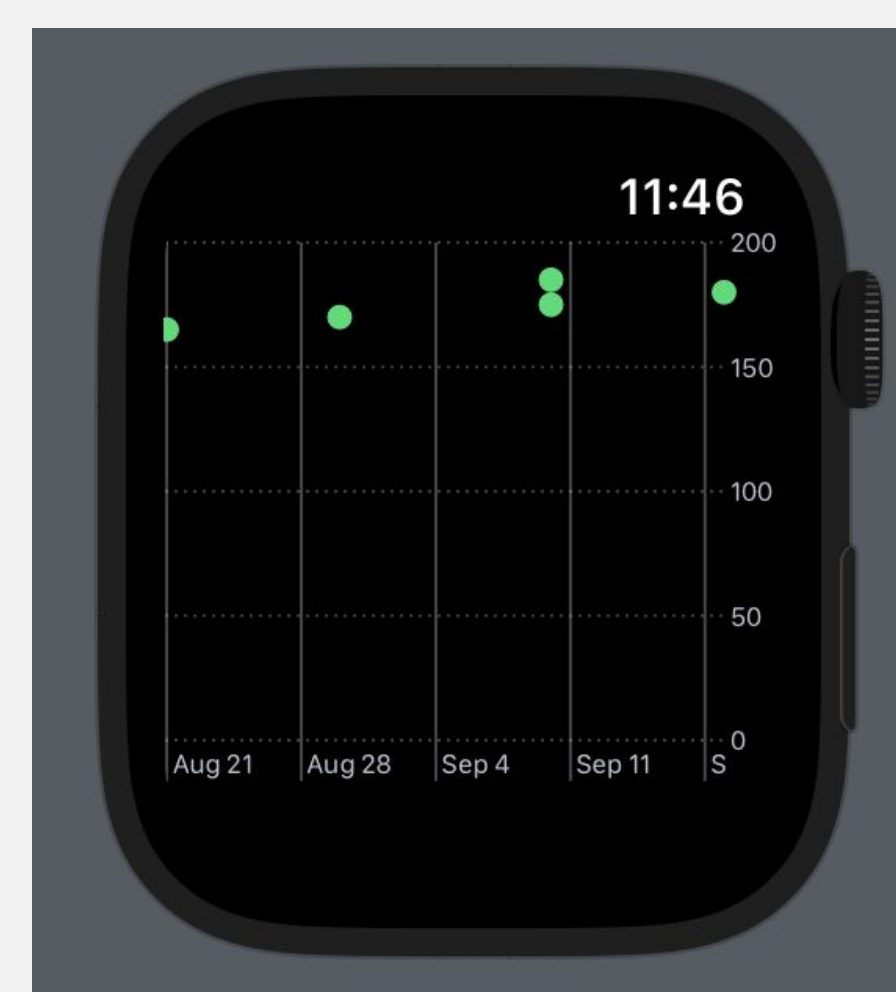
Weight Data
+ id
+ date
+ weight

Daily Graph
+ userWeightData
+ dateDomain

VERIFICATION

System Test Case #02	
System Test Case: watchOS_Graphs	
User Story: 24 Hour Graph	
Purpose: To add a graph to display weight recordings	
Pre-Conditions:	Open the watchOS app and swipe to the right twice
Expected Results:	Swiping to the right displays the weight data recorded in the last 24 hours
Actual Results:	Swiping right displays the 24-hour graph that filters the weight data to display desired weight data
Status:	Pass

SCREENSHOTS



Initial Design



Final Design

SUMMARY

- The watchOS application now has a usable graph that displays the relevant data for the last 24-hours
- Data object can be easily created and is filtered to ensure it is within the last 24-hours

ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by Jessica Ramella. We/I thank Jessica Ramella for his/her/their assistance and mentorship that I/we received throughout the senior design project.