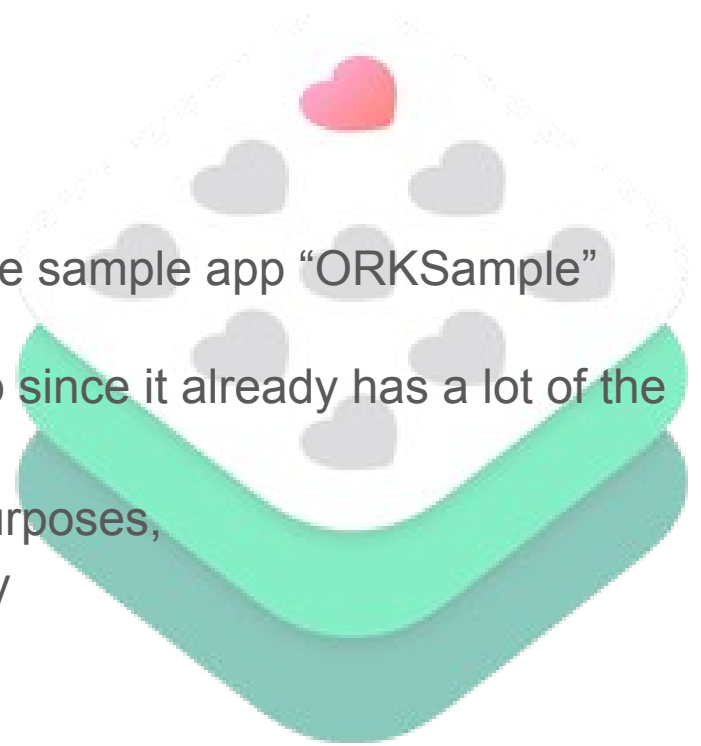


Team KOASK

February 15th SCRUM

What we did

- Downloaded ResearchKit and had a look at the sample app “ORKSample”
 - Had a lot of difficulty getting it to run!
- Decided to utilize ResearchKit to build our app since it already has a lot of the elements we need.
- Plan is to modify the sample app to suit our purposes, adding and subtracting elements as necessary
- Added a temporary logo but plan to work on a Better one.
- Implemented some of the survey question screens.
- Began working on the dashboard screen which displays survey results and other information.



Meeting With Dr. Sharif

- Showed him the sample app with the one KOASK question that we had completed at that time and explained our plan.
- Agreed on app requirements and timeline.
 - 1. February 20: All survey questions will be implemented.
 - 2. March 6: Dashboard will be completed with functionality for the “Structural severity” score by showing bar graphs for current and 7-year score using the mock algorithm (linking survey questions to score)
 - 3. March 13: Functionality for the Exercise tracking for simple exercise (e.g., walking) will be implemented in the Dashboard according to user’s input.
 - 4. March 20: Screen shots for Dashboard and survey questions together with functionality will be modified and finalized.

Meeting With Dr. Sharif

- Discussed implementation details
 - Behnam was curious about Swift, Xcode, ResearchKit, and iOS development in general.
- He provided us with a more complete version of the survey questions and risk calculation algorithm
 - Quite similar to the questions and algorithms we already had
 - “Functional” questions added

Survey Screens

- Implemented using ResearchKit
- Do not have to worry about UI or Error checking.
- Provides many built in question types and is flexible.

The image displays three sequential screenshots of a survey application running on an iPhone 7 Plus (iOS 10.2, 14C89). Each screenshot shows a different step in a 13-step process, with a 'Cancel' button at the top right and a 'Next' button at the bottom.

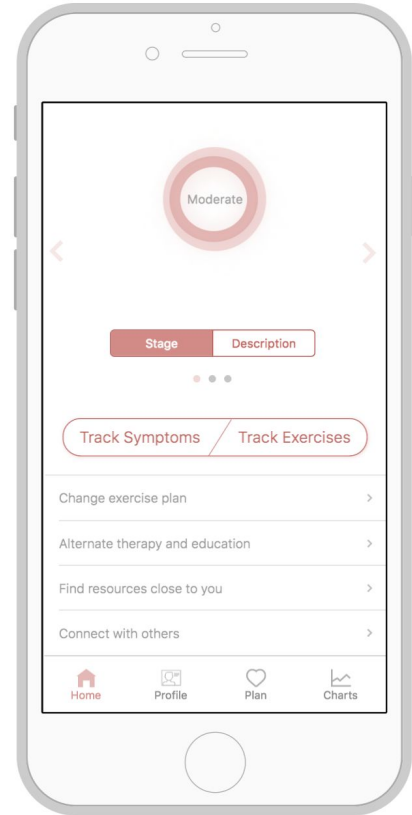
Step 2 of 13: Basic Information
Please enter the details below.
PLEASE SELECT YOUR SEX:
Male ☒
Female ☐
Age 24 years
Weight 78 kg
Height 5 ft, 9 in
Next

Step 6 of 13: Pain Profile
Rate your pain while performing the following activities:
WALKING ON A FLAT SURFACE.
0 7 10
No Pain Severe Pain
GOING UP OR DOWN STAIRS.
0 2 10
No Pain Severe Pain
SITTING OR LYING.
0 8 10
No Pain Severe Pain
Next

Step 9 of 13: Symptoms (past 12 months)
Which of the following symptoms have you felt in the past 12 months?
Warmth ☐
Swelling ☒
Redness ☒
Inflammation ☐
Next

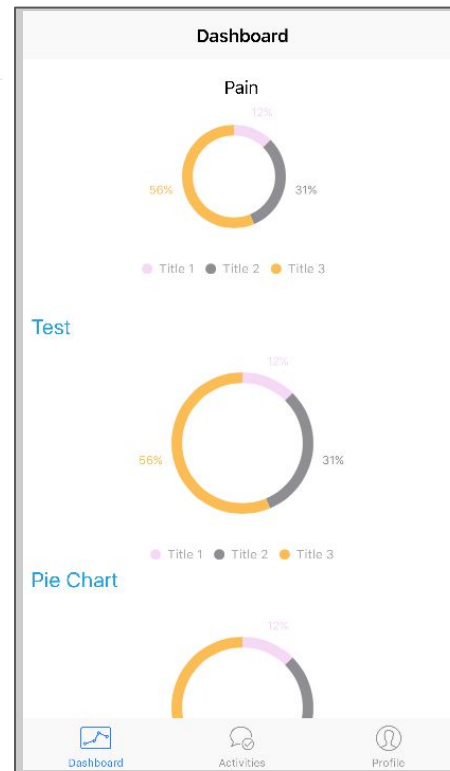
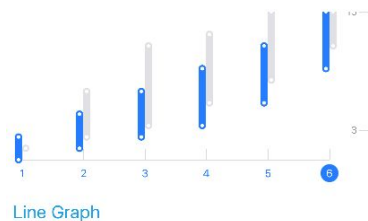
Dashboard Screen

What we intend for the screen to look like



What we have so far

- Page View Controller functional.
 - Allows the top element to scroll between three elements each with their own data
 - Pain, Stiffness, and Function
 - There are page indicators but they are white... On a white background
- Vertical scroll functional on lower section
- A variety of graphics



Going Forward

- Learn more about the ResearchKit framework especially how to access and work with survey results
- Integrate the ResearchKit survey into the rest of the project
- Explore the use of HealthKit for the exercise suggestion and tracking part of our app
 - Work on exercise screens