STANFORD BYERS CENTER FOR BIODESIGN

Stanford MEDICINE

CS342/MED253

Assignment #4: App (beta) Release

(Due 2/24/2022)

Rev. 02.07.2022

Deliverables

For this assignment, you will add additional core features to your application! your apps should be close to finished, with key functionality implemented and available to demo. You will be graded for completion of the following:

1. To your application, add one or two of the following. **60%**

   - Implement CareKit to track day-to-day adherence of at least one task! (a task can be taking a survey, taking medication, reporting nausea, meeting a specific goal, etc).
   - Use HealthKit to track health data in your application and upload it to the cloud. Create at least one graph that visualizes the metric in a useful way.
   - Create an active task for users to collect data in your app.
   - Collect data from an Apple Watch and display results on the iPhone.
   - Set up the CardinalKit dashboard for visualizing HealthKit data or creating and viewing ResearchKit surveys.

2. Your app should have at least one view that communicates overall study progress to your patients. You may use CareKit charts or ResearchKit charts, create custom visualizations (e.g., charts), or provider dashboard (CK Dashboard). **15%**

   Consider the following questions:
   -How many days are remaining in the study for the patient to finish?
   -If the patient is completing amazing progress, how can they be rewarded?

-Did you learn something from the patient based on how they answered a question that you would like to visualize back?

3. Define a secure set of rules for your Firestore database. If you are using Cloud Storage (images or larger files), define a secure set of rules there too. The rules should only allow a logged-in user to read/write into their own collections, and no others. Include the rules as part of your submission on the body of your pull-request. **20%**
4. Create a section with information about the study clinic primary contacts. You may use a CareKit contact card. **5%**

Submit your code via a GitHub release tag.

Additional Links

- CareKit Sample: https://github.com/cs342/CareKit-Sample
- CardinalKit: https://github.com/CardinalKit/CardinalKit