CS342/MED253 Building for Digital Health
Lecture 4A: Mentor Day #1

Welcome!

https://cs342.stanford.edu
cardinalkit.slack.com

Don’t forget to record lecture

Santiago Gutierrez
Oliver Aalami
Mike Hittle
Varun Shenoy
Aish Venkatramani

Winter 2020
Does of Digital Health

**hims & hers** goes public via SPAC (started in 2017)

- **What is HIMS&HERS?**
  A Direct to Consumer (DTC) Pharmacy
  Started with erectile dysfunction / hair loss.
  >100 conditions / online pharmacy / telemedicine service

- **What is a SPAC?**
  Special Purpose Acquisition Company: "blank check" shell corporation designed to take companies public without going through the traditional IPO process

*Don’t forget to record lecture*
Does of Digital Health

- SMART on FHIR API for Android
- Patient health information viewer deployed at over 200 hospitals
- CommonHealth helps people collect and manage their personal health data and share it with the health services, organizations and apps they trust.

https://www.commonhealth.org/
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Announcements

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Santiago Gutierrez
Oliver Aalami
Mike Hittle
Varun Shenoy
Aish Venkatramani

Winter 2020
Assignment #0
HIPAA Certification

Stanford University

AXESS

MY AXESS  EMPLOYEE CENTER  WORKFLOW HOME  TEACHING  STARS  HRS CENTER

All Learning

Action Needed: Enroll/Register

Options...

Title  Enroll/Recertify  Drop/Remove

HIPAA/Protecting Patient Privacy 2021 Auto Assigned, DUE 01/31/2021  ENROLL

Action Needed: Launch/Complete

You have no Launch/Complete items at this time.

Due w/ Final Presentation
Assignment #2: ResearchKit + Firebase

Rev. 01.20.2021

Deliverables
For this assignment, you will use the ResearchKit open-source framework to create surveys for your project. You will also use the Firebase iOS SDK to store survey results in a database. This is a group assignment — work together to divide tasks, and submit one app per group. You will be graded for completion of the following:

1. Your project has a set of pre-defined surveys or patient-reported outcomes for collection. Read through these thoroughly [here](https://www.when2meet.com/?10870585-3kAK3).
2. Write down the ResearchKit elements you will use to create your survey(s). Refer to the ORKCatalog. Include this list with your PR submission.
3. Create all required surveys using ResearchKit (75%)
4. Configure a Firebase instance for your team, and store survey results in a Firestore DB (15%)
5. Submit your code via a GitHub pull request, one per team [how-to](https://www.when2meet.com/?10870585-3kAK3). Include every team member’s name on your PR submission.
App (alpha) for Midterm:
Due February 11th

Grading Criteria: [link]

Assignment #3: App (alpha) for Midterm

Rev. 01.28.2020

Deliverables
For this assignment, each team will work together to create one app for their project. This is what you and your team will build upon for the remainder of the course. You will be graded for completion of the following:
LIVE DEMO
(of app from Assignment 3 - alpha)

you may include videos
By now, you should have one Firebase/GCP instance set-up per team.

Please add the CS342 teaching staff to your Firebase account.
<table>
<thead>
<tr>
<th>Member</th>
<th>Role(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santiago Gutierrez</td>
<td>Owner</td>
</tr>
<tr>
<td><a href="mailto:ssGutierrez42@gmail.com">ssGutierrez42@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td><a href="mailto:varun.nshenoy@gmail.com">varun.nshenoy@gmail.com</a></td>
<td>Owner</td>
</tr>
</tbody>
</table>
Guest Lecture on Thursday, Feb 4th 2021

Dharmesh Patel
Solutions Manager, Google Cloud Healthcare & Life Sciences at Google
Cloud Healthcare API

Cloud Healthcare API offers a robust, scalable infrastructure that integrates with various healthcare data sources using industry-standard protocols to bridge the gap to the Cloud. Currently, Cloud Healthcare API supports FHIR, HL7 v2 and DICOM.
Question #1

In general, would you say your health is:

3

Poor

Excellent
Overview for today

4:45pm - 5:15pm        Mentor Day #1, Part I
5:15pm - 5:25pm        Coffee Time (breakout in groups of 3 for socializing)
5:25pm - 5:45pm        Mentor Day #1, Part II

We will be having OH today after class

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Mentor Day Tips

- Provide an update to PI and team by showing your work
- Review TEAM PAGE for missing content!!
- Confirm roadmap / plan
- Discuss what feature the team would like to build and contribute to CardinalKit

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Coffee Time

- 10 min
- Opportunity to mingle / take a break
- Ice breaker question for the day:

  “Talk about an experience where having your health data would have helped your experience with the healthcare system”

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Attendance Check 👣

- Use the following link to mark your attendance for today: http://bit.ly/cs342-attendance-check

https://cs342.stanford.edu
Thank you!