Welcome!

https://cs342.stanford.edu

cardinalkit.slack.com

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About Us

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Project Background

- Hormonal Acne affects 25% of adult women

- No miracle medication:
  - Hormonal treatment (e.g. birth control) might not be an option
  - Need to slowly find the right skincare routine (requires several iterations): personalized solutions

- Regular dermatologist consultations are expensive

- Can we build an app that automates this process? Are there patterns?
Need Statement

A better way to track and identify risk factors in *adult women* suffering from *acne* in order to provide personalized skincare routines to reduce the number of monthly skin flare-ups.

- **PROBLEM**: Acne
- **POPULATION**: Adult women suffering from acne
- **OUTCOME**: Reduce the number of monthly skin flare-ups
Informed Consent

- Data Collection: Surveys and Selfies
- Privacy:
  - Data Storage: on device
  - Data Processing: on device with CoreML
Surveys (patient-reported outcomes)

- **Onboarding survey**
  - Goals, previous treatments, medical history
- **Bi-weekly survey**
  - Improvements, side effects, personal preferences (e.g. smell)
- **What worked well?**
  - OKR-Catalog: great resource
- **What are some even better ifs?**
  - More fine-grained surveys: help of a dermatologist
Feedback from Testers

● Tester 1:
  ○ Survey color scheme should be consistent

● Tester 2:
  ○ Too many consent steps (all in one page)
  ○ Color scheme should be consistent
  ○ More instructions on how to use the app after onboarding survey
Next Steps

● Computer Vision Algorithm (data collection, model training)

● Migrate to purely on device platform with CoreML (your photos are staying on your device!)

● Build skincare routines with the help of a dermatologist and implement recommendation algorithm

● Improve app design (logo, thumbnails)