Vision Statement

About the Team
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TL;DR
A telemedicine platform to make virtual doctor's visits effective and efficient by enhancing patient-doctor communication.

Background
Problem
Doctor visits are inconvenient. Patients must worry about the commute and then actual waiting time despite getting there early for your appointment - and that's if you even made an appointment. Health care is a fundamental right yet it is so difficult to access.

Commuting, wait times, costs, privacy and scheduling are significant barriers to accessing healthcare. Telemedicine seeks to address these problems; however, virtual appointments today diminish the quality of communication between patients and doctors.

Motivation
Expanding digital access to healthcare will increase patient satisfaction, promote patients to access healthcare, and help grow medical organizations.

- 84% healthcare executives felt that the development of telemedicine services is important to their organizations.
- 74% of patients are comfortable with communicating with their doctors using technology instead of seeing them in person.
- 67% of patients say that using telemedicine would increase their satisfaction with medical care.

Existing solutions
- PatientAccess Mobile App
  - Connect patients to healthcare services (book GP appts (remote or in person), order prescriptions, explore pharmacy services, symptom information, view medical record (immunizations, test results, allergies, etc))
- Teladoc, DoctorOnDemand
  - Patients enter symptoms before video appointment and video conference with doctors affiliated with the platform.
- SutterHealth Patient Portal
  - Centralizes messages, health records, appointments, and billing for patients.
  - Live chat support
  - Example of technology behind large healthcare providers

**Goal**
Existing telemedicine solutions utilize video conferencing to connect patients and doctors. Our goal is to augment the patient experience of virtual doctor’s appointments and make virtual visits as effective as in-person visits by:
  1. Improving virtual patient-doctor communication
  2. Enhancing pre-visit tasks to ensure the doctor is prepared to effectively treat patient symptoms
  3. Optimizing patient-time by streamlining visits and making doctor notes easily accessible post-visit

**Potential Technologies**
Mobile: React Native, iOS HealthKit, watchOS
Web: React.js, Node.js, Docker/Kubernetes
Wearables: watchOS, FitBit API
APIs & Databases: Amazon Chime, AWS, GCP, Firebase, Twilio, Postgres, MongoDB
Design: Figma, Photoshop

**Milestones - Agile Process Model**
**Sprint 1: 10/14 - 10/24**
- Research tools / technologies
- Set up end-to-end framework
- Begin PRD
- Add P0 features and unit tests
- Mocks v1
**Sprint 2: 10/24 - 11/7**
- PRD v1 due Oct. 31st
- Fix bugs
- Add P0/P1 features and unit tests
- Mocks v2
**Sprint 3: 11/7 - 11/21**
- Polishing UI implementation
- Fix bugs
**Sprint 4: 11/21 - 12/5**
- PRD v2 due Nov. 25th
- Prototype due Dec. 2nd
- Test and finish prototype implementation