

Cardiology HealthInfo App:

Your healthcare info always at hand

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Project Team

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Our Expertise

- **Interventional cardiology** (treat blockages in the heart arteries, repair heart valves)
- **Electrophysiology** (ECG, pacemakers, defibrillators)
- **Cholesterol Disorders** (cholesterol levels)
- **Blood pressure Disorders** (high blood pressure)

Project idea

Project proposal and description

Patients receive a variety of implanted devices but due to lack of integration of hospital IT systems information about the devices is not readily available

We propose a voluntary app where patient can self-enter (manually, QR code reader, scanning, OCR, etc.) their health information data (primarily implantable device information) – this way they always have information with them when needed (i.e. physician visits, emergencies)

App needs to be patient-centered and voluntary – it is patient's ultimate decision to enter data in the app

Current problem solution (images, charts, notebooks, etc.)

None

The need for the App – why, how, when?

There are 1,000,000 stent procedures annually in the US and multifold worldwide- this will improve patient communication and follow-up

App can track movement and provide additional data

App can link to credit card data and allow for big data research

App can allow for direct-to-consumer advertising

App can link to US News/World report hospital rankings, Doximity, physician ratings

App can link to various heart rate and blood pressure monitoring apps/devices



Problem Statement and Definition

Potential App Objectives

Provide patient-initiated data storage for critical health information

Potential App Contributions

For patients – always have critical data on you

For physicians – similar to patients – always have access to critical data

Device companies – access to data, access to product recall, new devices advertising, research

Advertisers - direct-to-patient advertising, Collect data on patient movement, spending habits

FDA – device recall, device tracking

Challenges

Copycat app/competition

Protection of intellectual property

Government regulation for data safety



Background / environment where your app will be used

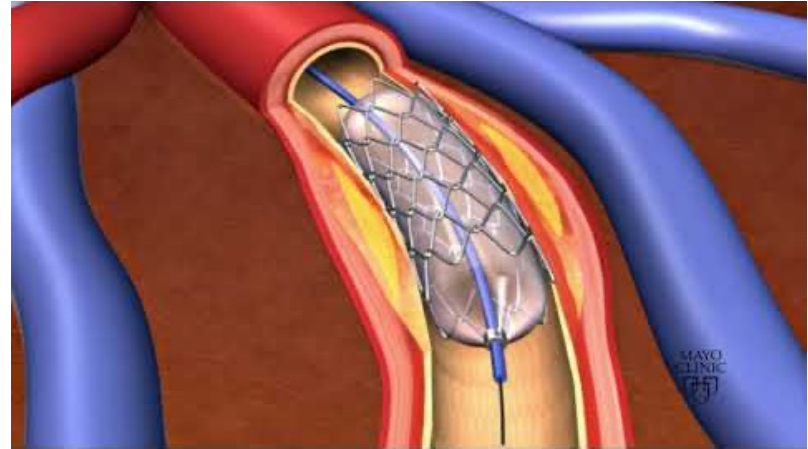
General background research on Client's work environment,

UIC – academic cardiology department

Environment where the app will be used
(photographs, video)

Hospital, outpatient clinic, emergency department,
patient home

Virtual Tour of the Client's environment
(photographs, video)



https://www.youtube.com/watch?time_continue=1&v=I12PMiX5h3E&feature=emb_logo

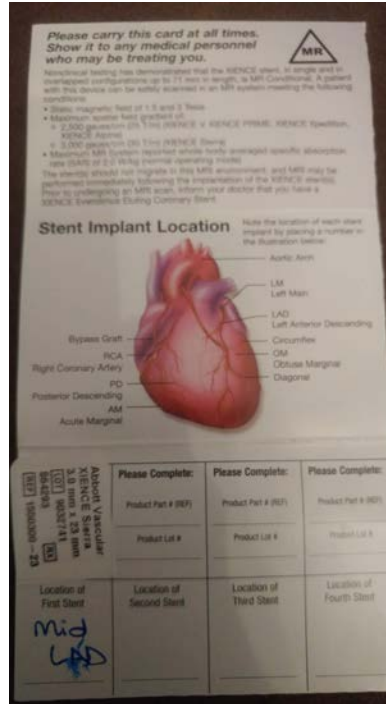
Patient has a heart stent procedure (in the hospital)



Patient goes to recovery room and discusses the procedure



Patient receives a “stent card” – tri-fold size of credit card... It’s 2020 and it is on paper written by hand (***) I AM NOT MAKING TH



Patient comes to outpatient clinic months later for follow-up



Medical records ARE NOT “interoperable” Means... data is not accessible everywhere/all the time...



Audience/s

How the proposed app can be used and how target audience can benefit from the use of proposed app.

- Patient enter data and have continued access to their health information

Who is the primary audience for proposed App?

- Patients, doctors, medical device companies, data companies, advertisers, FDA (Food and Drugs Administration)

Demographics of the user (age, gender, state of health, medical conditions, etc.)

- 50+, M=F, generally good health but not all, heart disease, diabetes, high blood pressure, high cholesterol, stroke

What background knowledge or prerequisites will viewers need?

- Basic knowledge about their medical condition and device implanted

Is there a significant international audience for your app?

- Global market is multifold US market

Other relevant Apps (if known and obvious)

Currently used in the work environment

- Strava – track activity and map routes
 - Kardia (AliveCor, Inc.) – tracks and documents heart rate
 - HealthRate – My Health Diary – Heart rate & pressure records
 - GoogleFit: Health and Activity Tracking
 - ZocDoc – find a doctor
 - Medisafe – reminder to take meds
 - Healow – access to medical records
 - MyChart by Epic Systems
 - FitBit
-
- Apps that did not work in the past and why

Content for the App

- Existing documents (total need for the app / existing doc)
- Links
- Video
- Imagery
- Audio materials
- References
- Database (if any)

POINTS:

- Consistency
- Readiness
- Module vs total documents needs for the app

Help us build an awesome app

