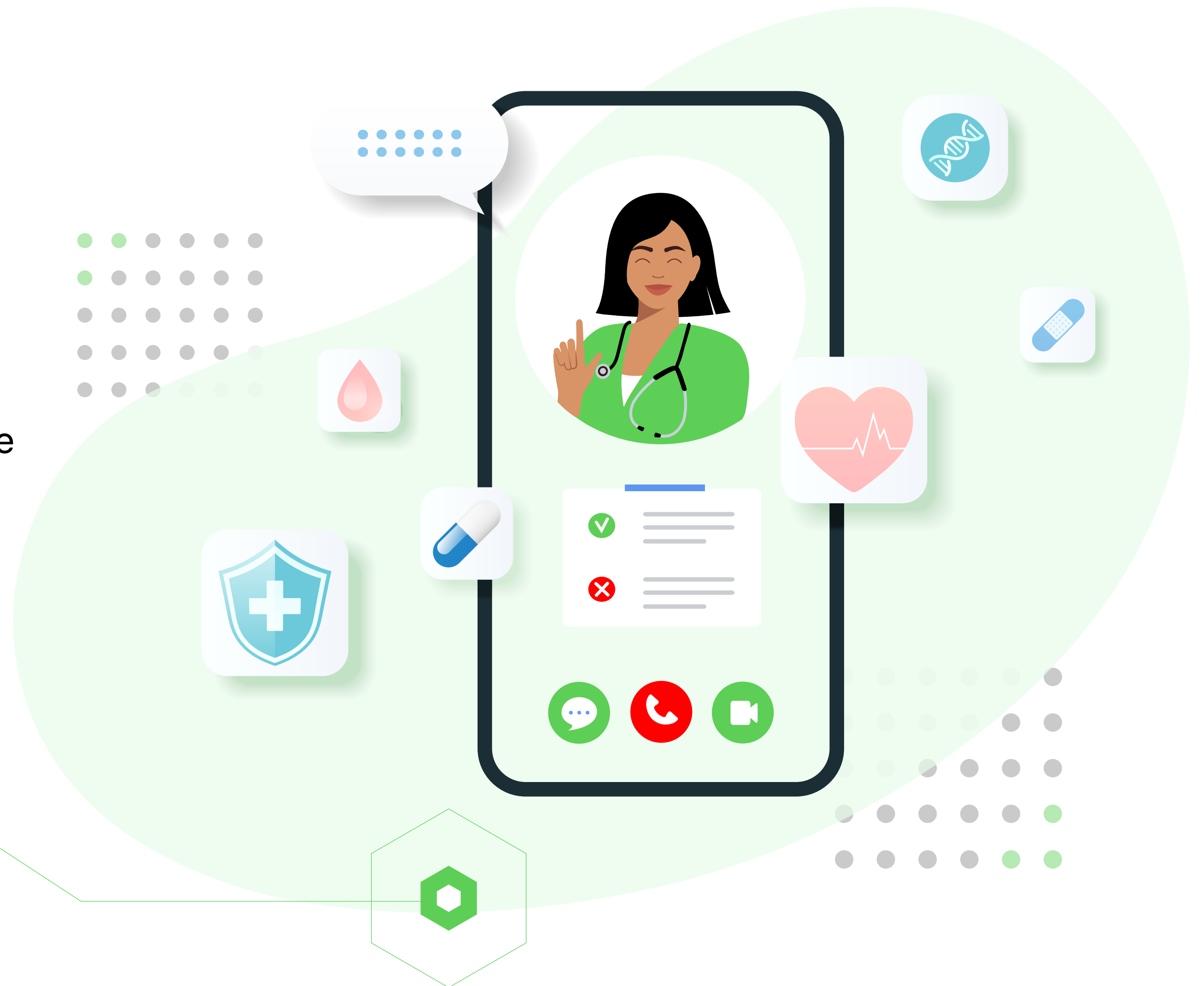




Case Study

Heartbeat Health is a modern cardio healthcare platform focused on revolutionizing the field of cardiology, making it more inclusive and improving the quality of life for patients.

Industry | Healthcare

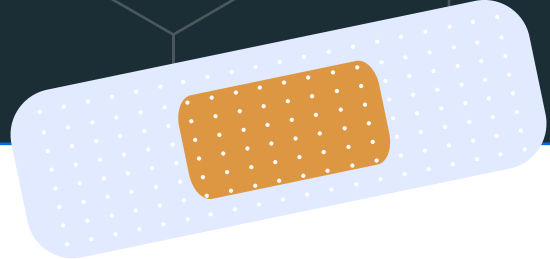


Project Overview

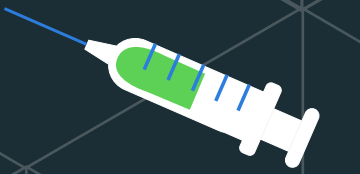
The goal of the application was to identify individuals with high cardiovascular risks and provide proper counselling to close care gaps and minimize the risk of cardiovascular diseases (CVDs) in the future.

Heartbeat has been developed keeping in mind the people at high risk of heart diseases. So the application is based on the proactive and agile approach to offer instant help anywhere & anytime. Device agnostics are available in collaboration with smart devices companies so consumers get instant access to fitness and medical reports through smart devices like smart scales, smartwatches and similar health & fitness devices.

A suite of clinical extension services allows patients to have online medical appointments, medical reports and prescriptions while at the comfort of their own space.



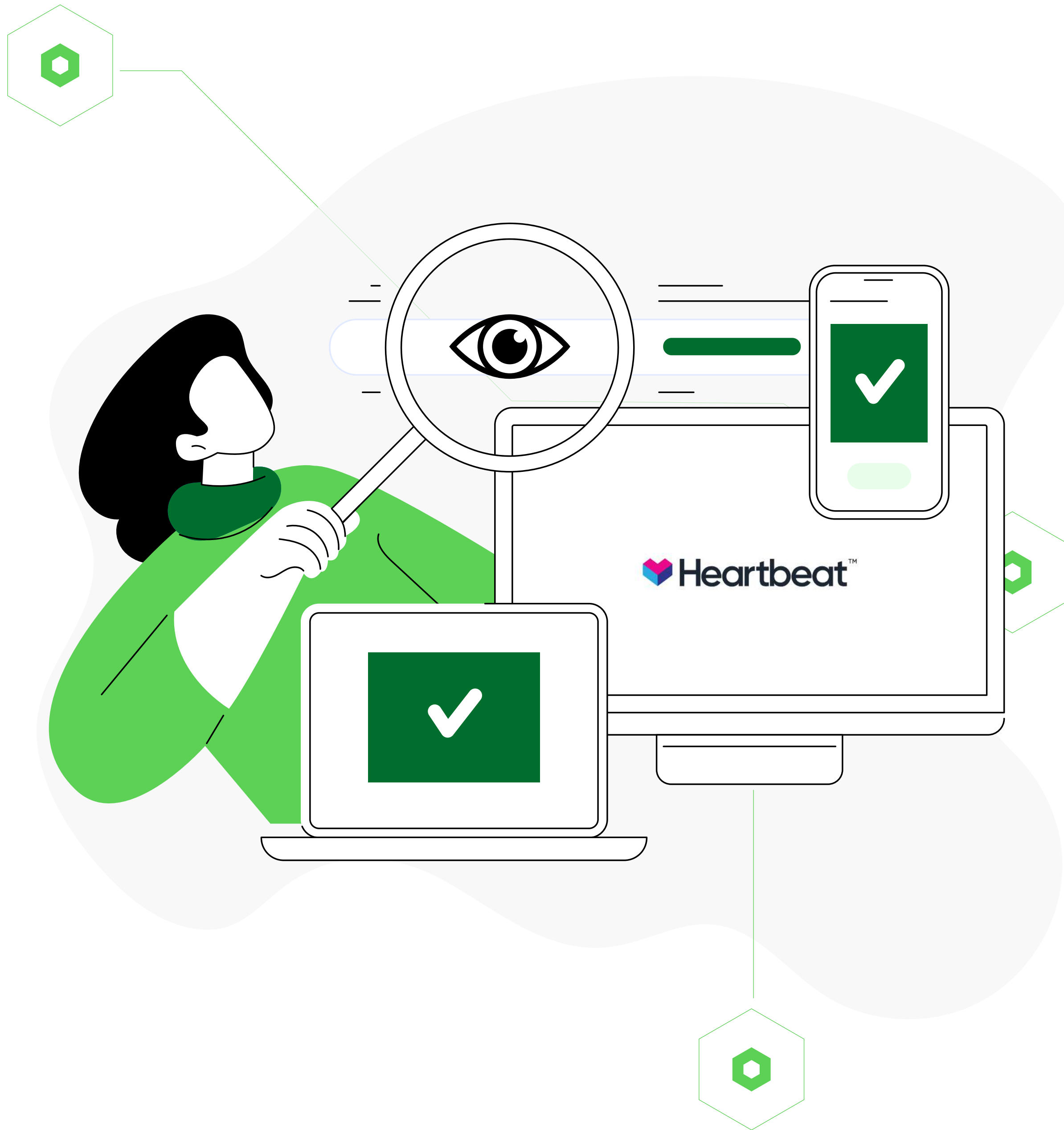
Patients face challenges in getting timely and accessible cardiovascular care. Traditional cardiology practices are not fully utilizing the benefits of technological advancements, such as remote monitoring and telehealth services.



“

Heartbeat offers the right platform with same day diagnostic interpretations, televisits and care programs. Facilities including Electronic Medical Record (EMR) along with the prescriptions, interpretations, televisits & device agnostic systems for remote tracking and monitoring of vitals for fast & accurate care.





Key Findings

The client wanted to have a complete medical application that could proactively track vitals and medical reports so cardio risks can be addressed before time. During the development, here are the key findings of the project that were incorporated;

- **Stable Communication**

Since the application is primarily focusing on digital care and the use of technology to address the gaps in the healthcare system, stable and seamless communication is important. The app must be able to handle chats, emails, video calls, device agnostics and other communications.

- **Easy Access All the Time**

The ultimate goal is to make life easier for patients, so it's important they can check on the vitals anywhere. For this to happen, integrating device agnostics on smart gadgets was a must.

- **Accuracy of the Data**

For this Heartbeat partnered with FDA approved hybrid smartwatches for accurate readings to make better interpretations. Further strict HIPAA compliance makes for the credibility of the information.

Problem Statement

Developing an online healthcare platform focused on cardiovascular diseases (CVDs) may encounter various challenges. Some potential issues to consider were:

1

Data Security & Confidentiality

Ensuring the security and privacy of sensitive patient data is a critical concern. Protecting personal health information (PHI) from unauthorized access, data breaches, and cyberattacks was a no brainer.

2

Smooth Communication

Safety, security & quality of communication was a major concern as the application is based on virtual cardio care. Client also wanted to have email functionality in application other than common modes including video call and chat features.

3

User Experience & Interface Design

Designing an intuitive and user-friendly interface is the basics for attracting and retaining users. Complex navigation, cluttered layouts, and lack of usability can discourage engagement.

Implemented Solution

1

Safety & Privacy

Heartbeat is a HIPAA complaint healthcare application which means business can protect the data, privacy and security concerns of the patients. It's also safe for digital payments as Heartbeat Health is using Stripe for safe & secure transactions.

2

Quick & Reliable Communication

Heartbeat relies on several third-party APIs for stable communication. With WebSocket, the excess network traffic is filtered so the connection stays quick & stable. Email integration is a distinguishing feature of Heartbeat. Email facility was integrated using MailChimp.

3

Rich User Experience

Xeltec has developed a rich user UIX with HTML5, jQuery, Bootstrap, and Less. With context menu feature, navigating & exploring the application has become convenient. Heartbeat is set up and maintained on Heroku server for enhanced performance through rich application monitoring.

Athena EMR integration provides increase the capability of the application with a suite of electronic health record systems.

Results

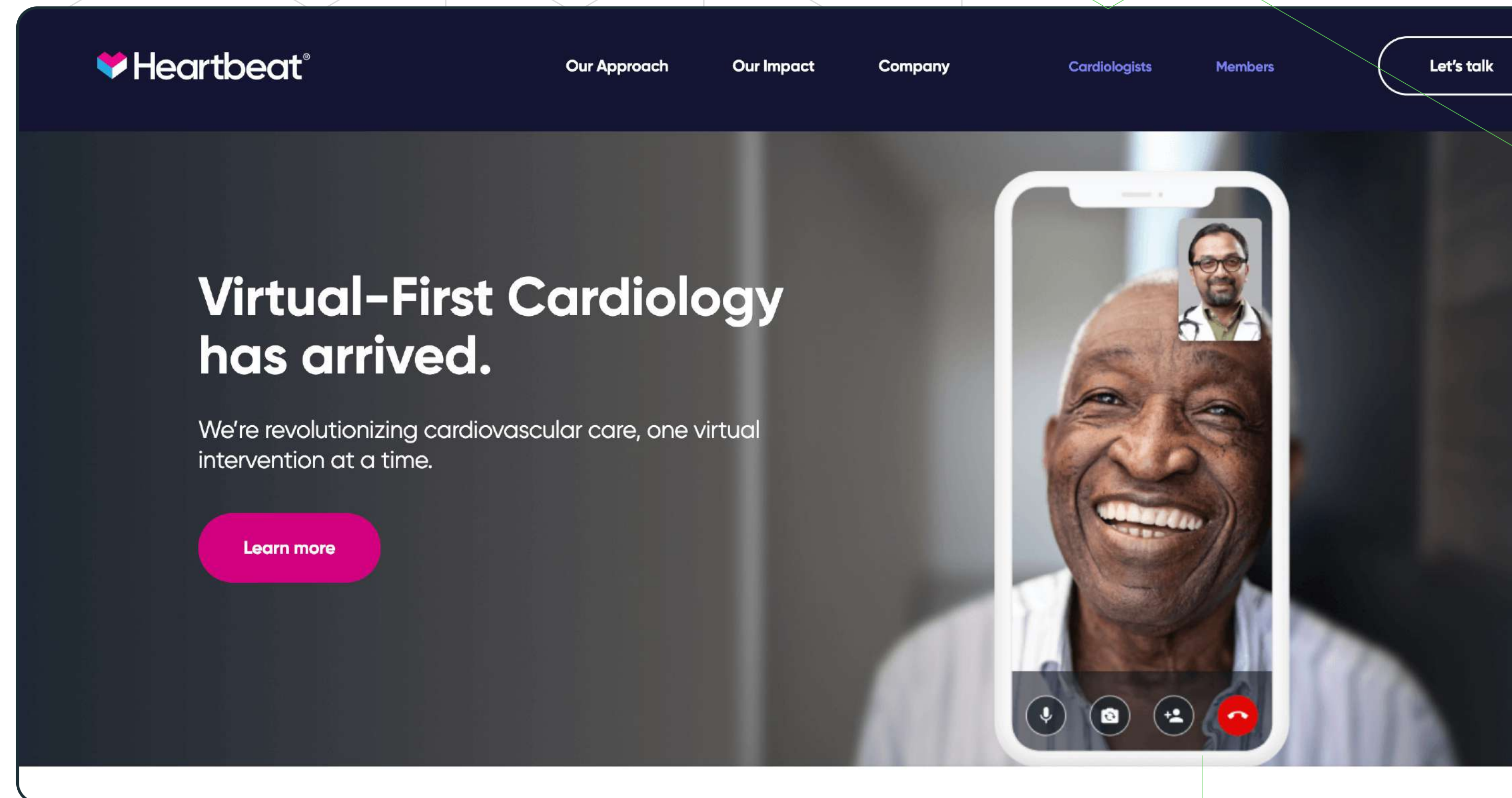
Heartbeat Health's Virtual-First Cardiology model has successfully demonstrated its effectiveness in three case studies: Naomi, who received a remote diagnosis for atrial fibrillation; John, who got a same-day echocardiogram, and Lucy, who received a comprehensive care plan after a heart attack

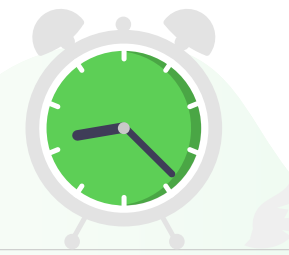
The use of technology in managing cardiovascular care has significantly improved the accessibility and quality of care for patients. As a result of Heartbeat Health, CVD related hospitalizations & unnecessary diagnostics and procedures, both decreased by 25%. According to a survey, 46,000 deaths can be avoided annually if 70% of the patients suffering from diseases like hypertension get the right health care.

Tech Stacks



Web link: <https://www.heartbeathealth.com/>





Thanks for your **Precious Time**