

# Case Study: Mobile Health Application for Chronic Condition Management

## Client Requirements

Client is a leader in interactive health management and remote patient monitoring for populations with conditions like asthma, diabetes, COPD, cardiovascular disease, obesity as well as general wellness.

CitiusTech was selected to build a web based mobile application to:

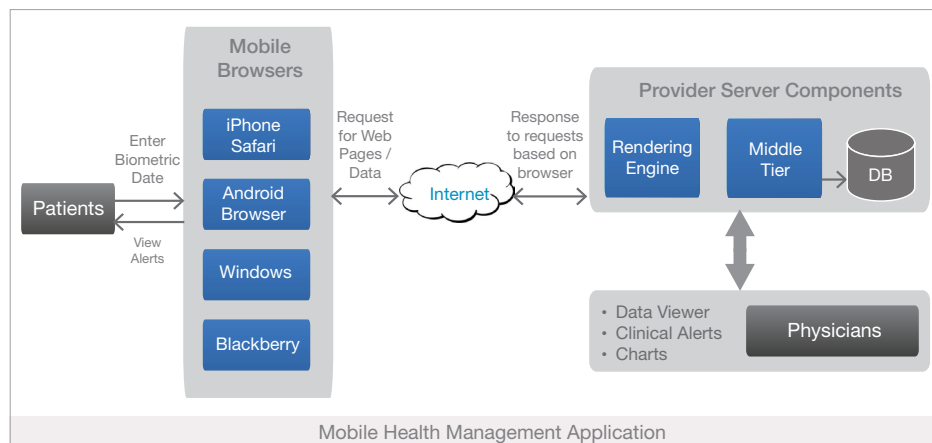
- Enable uploading and managing of biometric data using mobile browsers (Safari, IE, Chrome, Android)
- Allow patients to enter biometric data through mobile browsers
- Send clinical alert messages to patients based on customizable clinical rules
- Enable physicians and care managers to view patient data - both individually and at aggregate level

- Provide UI to physicians and care managers to review patient data
- Provide capability to define clinical alerts and thresholds

## Development and Deployment

The CitiusTech mobile application team consisted of professional with a strong understanding of healthcare workflows, applications and mobile technologies.

CitiusTech team developed a common rendering engine to support web requests from different mobile browsers. In addition, the provider side components were enhanced to optimize multiple transactions. CitiusTech was responsible for the end-to-end design, development, testing and deployment of the solution.



## CitiusTech Solution

### Solution Design

CitiusTech developed a flexible design for the patient health management mobile application. The key features included:

- Ability to work across mobile browsers for various platforms (iPhone, Windows, Blackberry and Google)
- Enabling a UI, based on mobile browsers and hand-held phone resolution

CitiusTech designed a provider-side solution for:

- Receiving and storing patient data centrally
- Data access layer and business logic consistency

Given the need to ensure correct rendering of web pages across different mobile browsers, an intensive regression testing was done. CitiusTech also provided user documentation and post deployment support.

## Value Delivered

The CitiusTech mobile solution delivered an enhanced value to the client by:

- Leveraging CitiusTech's consumer and mobile health experience to build a rapid mobile solution design
- Compliance to various mobile platforms leveraging CitiusTech's mobile health expertise
- Providing expertise in clinical alerts and content management

## About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to medical technology companies, providers, payers and life sciences organizations. CitiusTech's services and solutions include healthcare software development, healthcare interoperability, regulatory compliance, BI/analytics, consumer engagement, care coordination and population health management.

CitiusTech helps customers accelerate innovation in healthcare through a number of solutions and accelerators for clinical quality reporting, healthcare big data, cloud computing, mobile health and predictive analytics. With cutting-edge technology expertise, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare clients worldwide.