

# Infogain Develops Mobile and Web Application Hosted on MS Azure and Compliant with FDA Requirements

Our client is a US medical technology company leader that develops and markets at-home therapy devices that treat chronic conditions such as lymphedema.

## Challenges

- Current standalone medical device lacked interface to connect to the internet or mobile
- Patients used paper-based journals to monitor their treatments at home
- Due to improper training and handling instruction, patients would experience issues when using the medical device
- Client wanted an app that would allow patients to enter, manage and monitor their treatments online, provide motivation and access to education materials

## Solutions

- Conducted usability study to obtain specific requirements for the mobile and web-hosted application
- Designed a scalable architecture and developed PaaS solution using Azure services
- Integration with Okta Single Sign-On (SSO)
- Solution implementation is planned in four phases: design & development, wireless integration, real time patient monitoring, ML with data mining. Phase 1 is complete as of now (May 2020)
- QA team performed verification activities in compliance with FDA requirements

## Benefits

- Increased customer satisfaction with mobile and web access to monitor therapy and treatments
- Insights into patient data with real time monitoring and analytics
- Scalable solution with flexibility for user authentication and management
- Compliant with FDA requirements, and artefacts generated can be used for FDA submission

## Case Study

### Business Impact Delivered



Revenue



Cost



Speed-to-Market



Risk



Innovation

### Technologies Used



**DATA STORAGE**  
Azure SQL, Azure Storage



**LANGUAGE**  
.net MVC, Swift 4.3



**IDE**  
Visual Studio 2019,  
Xcode 11



**MULTI-FACTOR AUTHENTICATION**  
Duo Security

### Team Members



Technology  
Manager



Project  
Manager



Tech  
Lead



Business  
Analyst



Usability  
Expert



UI Designer  
Developer



iOS App  
Architect/  
Developer



.net  
Developer



QA  
Engineer