# Developing HIPAA Compliant Application

## Case Study

The customer is a **leading Healthcare IT provider** in U.S. healthcare industry. The customer, with the wide range of products including EHR/EMR, mobile applications, clinical management etc. Customer is also involved into healthcare business intelligence and analytics.

## Challenges

The customer wanted to develop a new HIPAA compliant application for their valuable customer providing faster access to data in disparate applications, and to improve usability by enabling data access from multiple devices such as tablets, smartphones. The customer wanted an application consisting modules related to the clinical management such as storing Patients PHI, Integration with Insurance companies using EDI messages & Integration with clearing houses

## Technologies

- .Net Framework 4.5
- MVC
- C#
- WCF
- WebAPI
- jQuery
- KendoUI
- SQL 2012
- Bootstrap
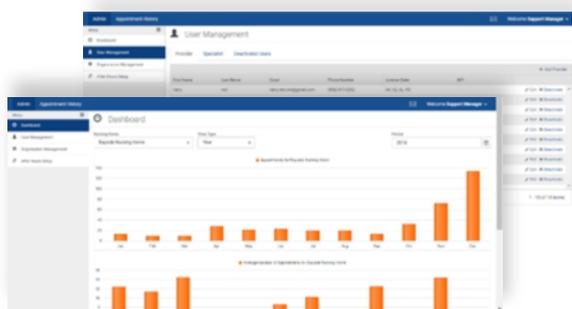


## Approach

U.S. Healthcare domain experts from InfoVision labs thoroughly analyzed the requirements to propose a highly configurable & HIPAA compliant future ready solution.

InfoVision Labs technical team developed a comprehensive clinical management application in the Agile environment suitable to the customer's need. The application comprises of modules like,

1. Integration with EHR
2. Capturing Patient Demographics and charges
3. Claims Processing
4. Integration with various clearing houses
5. Report generation

This application was deployed on cloud using Microsoft Azure platform which made this application highly-available all the time. Microsoft Azure ensured the application to be scalable and reliable & also provided the enhanced security over the PHI data.

The team made extensive use of KendoUI controls which made the application visually appealing & also improved the performance of the application. The application was built with Bootstrap, a widely-used framework for responsive web design, which also enhanced the UI/UX experience on both, web & mobile apps supporting all the major browsers. The security for PHI data is also maintained using FIPS 140-2 standards and Triple DES algorithm.

The integration with EHR & other clearing houses made this application an end to end solution for all the clinical management needs, thereby saving on client's staffing and operational expenditures

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