



# Clinic to Cloud



Clinic to Cloud worked with First Line Software to create Australia's most efficient, patient-centric connected care platform. Clinic to Cloud is utilized by more than 7,200 Medical professionals through 85,000+ consults each month while serving more than 3.6 Million patients across Australia.

## Challenge

Clinic to Cloud wanted a cloud based Electronic Medical Records system to connect patients with their general practice physicians and medical specialists in a secure and scalable environment. The application needed to be accessible from any laptop hosting Windows or Mac software, and on Apple or Android mobile devices using native mobile applications. The medical practice needed to handle administrative tasks and medical patient management. Administrative tasks include booking appointments, managing demographic information, intake patients for appointments and creating invoices using multiple payment methods. For patient medical management, doctors need to be able to run consults, request and review tests, manage patient clinical history and other clinical related assignments.

## Solution

The First Line Software team was responsible for designing, developing and implementing the desktop and mobile app versions, conducting testing, and ultimately providing post-release maintenance. The team was composed of more than 40 technical experts including an architect, developers, a business analyst, software testers, a UX-designer, and mobile developer.

## Outcome

The developed software solution can now be used by medical practices of any size and at any location. The development work included the utmost in security and data privacy protocols that are paramount when dealing with patient records. The platform was built in modules that provide functionality for configuring practice details, scheduling, messaging, and prescribing medication. It also allows doctors to manage their settings and set preferences like "favorite tests". Other key technical features include:

- Application hosting using MS Azure
- MS Azure (Web Apps, SQL Database, Blob storage, failover support via Traffic Manager and SQL Geo Replication, VMs for custom services and 3rd party applications)
- Integration with Medicare (universal health care system in Australia) using external service
- Integration with Medication and Medication Interactions (MIMS) databases
- Integration with Secure Messaging systems
- Middleware for sharing HL7 format files and to support on-demand printing
- Application for patients to view clinical information, provide personal details and search for appointments in practices
- iOS and Android mobile apps that replicate the functionality available in the web version
- Integration and fully supporting speech recognition functionality
- Migration from other EMR systems to ClinicToCloud functionality (ETLbased process of hosting new Users\Clinics\Practices from other hospital EMR systems on AUS market)

## Technologies

C#, ASP.NET MVC, MS SQL, Entity Framework, Javascript, React.JS, MS Azure



## Engineering of custom EHR/EMR solutions with advanced interoperability and optimized workflows

Our customers are visionaries and innovators who don't want to be bound by the constraints of their existing systems – we are their partner in fulfilling their ambitious goals. Modern EHR systems are powerful and highly complex. This complexity and long release cycles are the impediment for fast adoption of latest innovation opportunities, for improvements in care quality and safety, and expansion of care beyond the boundaries of healthcare institutions.

From Order Entry to Decision Support, to Medication Administration and to Acute Clinical Documentation - First Line Software has been developing and implementing hospital and ambulatory systems long before major EHR vendors gained wide adoption. We are building and integrating these systems and components for prestigious AMCs, innovative clinicians, and medical software and equipment manufacturers for nearly 20 years. The types of healthcare solutions we're building has evolved along with the transformation of the healthcare IT landscape. We work with you to enhance your EHR systems to create effectiveness and efficiencies that will help you change the world.

Learn more: [firstlinesoftware.com/healthcare](http://firstlinesoftware.com/healthcare)

### About First Line Software

First Line Software is a premier provider of software engineering, software enablement, and digital transformation advisory services. Leveraging its long history of distributed agile development methodologies, First Line Software delivers both excellence and efficiency in complex projects in healthcare, warehouse management, web content management, ecommerce, retail digitization, machine learning, and cloud computing.

First Line Software is consistently recognized globally with industry rankings and awards. As active members in Object Management Group and the Industrial Internet Consortium, First Line Software collaborates on establishing standards for technology, enterprise integration and Industrial Internet. As an Episerver Gold Partner, First Line provides implementation and customization services to direct clients and in cooperation with other Epi Partners.

Headquartered in the U.S., the global staff of 750+ technical experts serve clients across North America, Europe, Asia, and Australia, including Accenture, Bonnier Group, Clinic to Cloud, Partners HealthCare, Viastore, and others.

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