



Ministerio de Salud
Argentina



SUCCESS STORY

Digitalization of Argentina's public Healthcare System

Software Factory
(UX/UI, DEV, QA, DBA, DevOps, Support and Maintenance)



Challenge

First Challenge

The Argentinian Ministry of Health requested the development of a hospital management software aimed to digitalize patients' medical records, managing appointments, bed management, and other sources of information

Second Challenge

The app needed to provide support services and enable epidemiological, statistical, and management data.

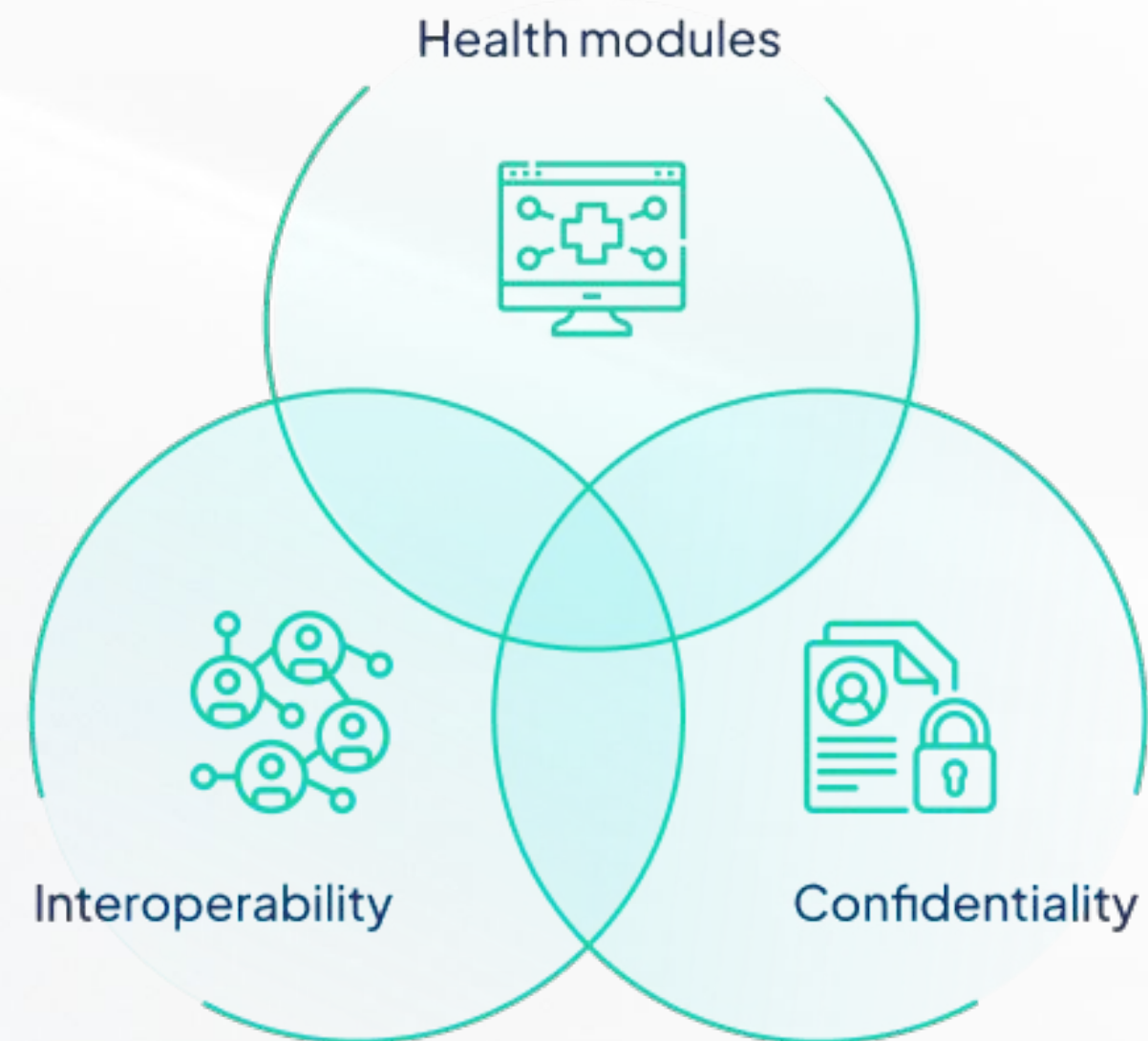


Innovative technologies were considered to improve the efficiency of the National Health System in order to achieve the goals.

Testing our capabilities

The system required to be integrated with the centralized national database containing patients' information, such as dates of birth and death, for security and management purposes.

Access to medical records information would be easier for both patients and healthcare workers..



Proposal

Brainstorming

We suggest developing a system that integrates the electronic health records (EHR) of each citizen, enabling the integration and organization of healthcare information for the population within the territory.

Integration into the National Interoperability Network for accurately, securely, and in real time exchange of information was crucial for the success of the development.

We recommend the use Web services and interoperability standards such as HL7 FHIR and SNOMED CT2 to develop this system. It was agreed to use the following technologies: SnowStorm and a patient identity cross-reference manager, a modern version of the Enterprise Master Patient Index (EMPI).



Our Contribution

By using agile methodologies and developing interactive prototypes in collaboration with the Ministry of Health, we defined key modules such as Emergencies, Hospitalization, and Intensive Care Units, taking into account users experience based on the role each one has in their organization.

We worked with our UX/UI experts for screen design and navigation.

We encouraged the implementation of a security system to ensure the unique identification of each patient, confidentiality, accuracy, accessibility, and privacy of the information collected in the Electronic Health Record, along with data retention and recovery.



Results

Accomplishing Integration



The system is operational in several national and international healthcare institutions



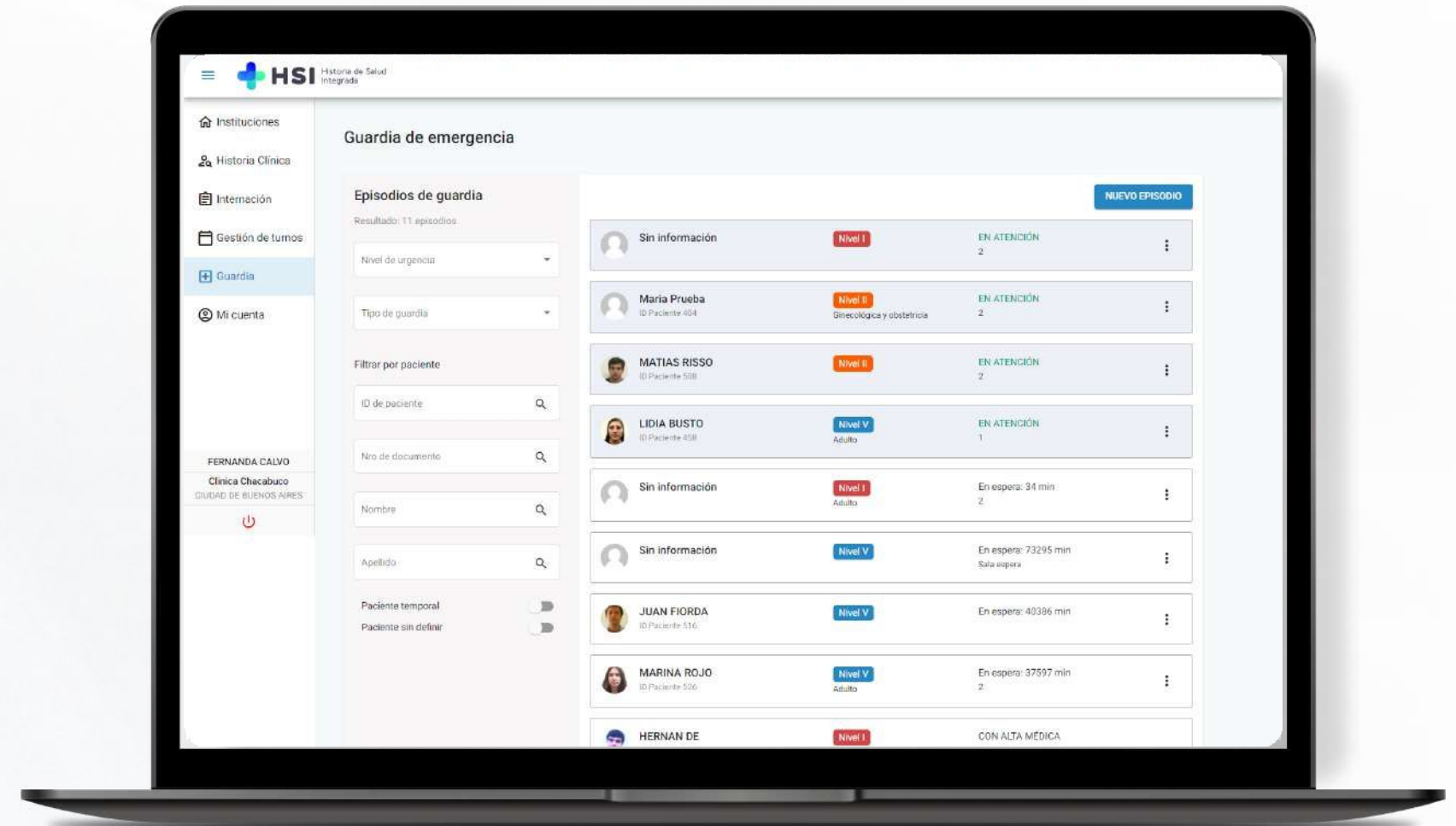
Allows access with different roles and permissions



A sophisticated, reliable, customizable, scalable, and highly available system.



Manages sensitive information using the most sophisticated algorithmic encryption on the market.



Includes various modules such as appointment management, admission, bed management, and Digital Health Records



Alignment with international standards allowing the possibility to launch the application in different countries.

Allows access to patients' records at any time and from any location



Efficient appointment management

Providers tracking

Utilize the concept of "Mobile Practice"



allows the creation of epidemiological records with relevant information regarding diseases and discharged patients



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