



EHRServer

Management and Implementation Workshop

Open platform to store and share clinical records compliant with the openEHR standard



Workshop objectives

The main goal of this workshop is to get a deep understanding on how the EHRServer works, what's its purpose, capabilities, features, how it is configured and managed, and how it can be integrated as a backend of clinical apps on several scenarios, from a mobile app backend to an integrated clinical record.

Why this workshop?

Currently there is a huge interest on open platforms for digital health, and there is a booming adoption of the openEHR standard in the last couple of years. EHRServer was the first open source openEHR clinical data repository available, and now has become a very sophisticated tool to store, manage and share clinical data. Considering clinical data repositories are complex to design in a generic way, at a very high cost, and most are closed designs, not based on any standard (attribute that hinders interoperability), these designs are not good for long term projects and might not be viable for small and middle sized software companies. EHRServer comes with a standard-based design out of the box, with interoperability as a core requirement, and a vendor-neutral approach. It aims to help these companies with a solution that allows them to focus on their clients, while designing better architectures based on services.

EHRServer allows to store and retrieve any kind of data structure that complies with the openEHR specifications, supporting more structures without the need of changing the source code or the database schema, removing the need of custom clinical data repositories.

Since openEHR is complementary to other standards, openEHR data can be mapped to HL7 v2.x, CDA, FHIR and DICOM formats, which allows interoperability with other systems without the need to modify the EHRServer. It also supports any terminology standard like SNOMED CT, LOINC and ICD. Specially, the EHRServer supports SNOMED CT at in the queries, to add semantic filters to them, allowing to retrieve very specific data, documents or EHRs, which allows better clinical decision support out of the box.

Who is this workshop for?

This workshop is aimed to IT professionals (software architects, programmers, tech leads, among others), with interest in health information systems. It is recommended to have programming knowledge, and experience with XML, JSON and HTTP.

Syllabus

1. Introduction, history, purpose
2. Main features
3. Code and documentation
4. Project management and problem report
5. Installing and configuring (linux)
6. Internal organization: accounts, users, permissions
7. Internal organization: health records and documents
8. Introduction to the openEHR Information Models
9. Working with openEHR Archetypes and Templates
10. EHRServer REST API
11. Authentication modes on the REST API
12. Creating and managing clinical data queries
13. Integrating EHRServer with clinical record apps

Modalities

This workshop is offered online and on-site for companies, organizations and events. To request a quote please contact info@cabolabs.com

It is also offered online with live/synchronous sessions or on-demand with pre-recorded sessions. This modality works in established periods, generally twice a year. To get notification when the next enrollment period opens, sign to the Waiting List found here: <https://www.cabolabs.com/en/education>

For the online editions:

- We have a virtual campus with the materials and a forum
- We have a videoconference tool to provide the live online sessions
- All the sessions are recorded to watch later
- All the materials needed for each module will be available before the correspondent session

In the on-demand modality, the only difference is two session recordings will be published each week.

Certification

ACHISA y CaboLabs, will emit PARTICIPATION certificates for all the students that sign up to this workshop.

Trainer

The workshop will be delivered by Pablo Pazos Gutiérrez, who created the EHRServer and designed the workshop taking into account the openEHR specifications and summarizing 12+ years of experience working with openEHR.



Bio

Pablo is a Computer Engineer from Uruguay, specialized in the eHealth domain. Director of CaboLabs: Health Information Systems, Standards and Interoperability, and creator of the courses delivered through CaboLabs with the support of ACHISA. With 12+ years of experience in eHealth, 500+ trained professionals from 16 countries.

- Computer Engineer degree, Universidad de la República, Uruguay
- Director at [CaboLabs](#) Health Informatics
- Educator at [Asociación Chilena de Informática en Salud](#)
- [openEHR Ambassador for Latin America](#)
- Coordinator at [openEHR community in spanish](#)
- Qualified Member of openEHR's programs (specification, software, localization, education)

Acknowledgements

ACHISA and CaboLabs thank Hospital Italiano de Buenos Aires for the provision of the videoconference platform that allow us to deliver this workshop.

**ACHISA supports knowledge dissemination in the Health Informatics discipline,
especially about the available standards and specifications.**

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Health Informatics, Standards and Interoperability