

Dynamic Patient Data Entry Module

kind	Bachelor thesis
workingtitle	Development of an input module for dynamic processing of patient data in a clinical information system

The “EMT Operating System” (EOS) is a field hospital information system tailored to the requirements of specialized units in disaster operations. Its idea was developed and designed as part of the European Modular Field Hospital project. The system supports the entire patient treatment process from triage to discharge and is highly configurable to adapt to the needs of paramedics. Although EOS is primarily designed as an electronic patient record, it also includes essential functions for field hospital management.

The demanding circumstances of a field hospital require simple data processing measures to keep clinicians focused on patient care. Digital documentation represents a clear added value to paper-based patient records, but electronic entries are generally no less cumbersome or practicable. For this reason, studies must be carried out to develop the most efficient input mechanisms possible.

The aim of this work is to develop a dynamic input module that focuses on efficient processing of the necessary patient data. The data is stored in the standardized HL7 FHIR format.

requirements

- Bachelor's degree in the field of computer science, medical technology, bioinformatics, engineering
- Good knowledge of the programming languages Java, JavaScript, Typescript and web technologies
- Experience with HL7 FHIR desirable
- Independence, reliability, good knowledge of English

contact

University of Leipzig
Innovation Center Computer Assisted Surgery (iCCAS)
Jan Gaebel
E-Mail: jan.gaebel@medizin.uni-leipzig.de
Web: www.iccas.de