

MUDRLite – Health Record Tailored to Your Particular Needs

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Abstract. Nowadays most hospitals use an electronic form of health records as a part of their hospital information systems. However, these systems are more suitable for the hospital management than for physicians. The health record is not structured as much as necessary; it includes a lot of free-text information, and the set of collected attributes is fixed and practically impossible to be extended. Physicians, gathering information for the purpose of medical studies, often use varied proprietary solutions based on MS Access databases or MS Excel Sheets.

The EuroMISE Centre – Cardio is developing an electronic health record (EHR) application called MUDRLite, which could easily fulfill the gap among existing EHRs. MUDRLite is created within the applied research in the field of EHR design, which is based on experience gathered during cooperation in the TripleC project. MUDRLite development is an extra branch in the MUDR (MULTimedia Distributed Record) development; it simplifies both the MUDR architecture and the MUDR data-storing principles.

MUDRLite itself is an empty body, which has to be filled in with a configuration XML file. The XML file completely describes the visual aspects and the behavior of the EHR application. It includes simple 4GL-like constructions written in the MUDRLite Language (MLL). This enables - using the event-oriented programming principles - to program various handling of range of actions, e.g. clicking on a button fills in a form with a result of an SQL statement. MUDRLite can be tailored to particular needs of any health care providers. That makes the MUDRLite application easy to use in a specific environment. In the first instance, we are testing it in the Neurovascular Department of the Central Military Hospital in Prague.