

Abstract

A medical record is private data about a patient's medical history that ever suffered by a patient. It is also very beneficial for the actors, especially the medical doctors treating patients especially in providing prescription drugs to patients especially for patients who have had drug allergies. Therefore, the required record keeping medical records are neat and easily accessible by medical actors.

Electronic Medical Record (EMR) is a patient's medical record in digital form designed a dynamic, flexible and has high scalability. In this final task, will be built EMR data model.

The problems that often arise in the EMR is the continued increase in patient data, and this will surely continue to grow. This will affect the speed of data retrieval of patient data of patients who have given so much. At this final project will use the method ontology Tove in building a flexible data model EMR. In building this hierarchy of EMR data model, used by the Protege tool using the SPARQL query.

In this case, the method of retrieving the ontology Tove has a relatively better than other methods. Whereas in doing the update, Tove method can update correctly on the appropriate class.

Keyword : EMR, Ontology, TOVE, protégé, SPARQL.