

ABSTRACT

Medical record is very important to know when someone is having disease. Given this history so any action will be carried out in the decision to treat a person's disease will be more secure. Electronic Medical Record (EMR) is a record about disease of the patient that is designed with form-making and becomes an input for the EMR. Any data entered into the EMR will be digitally processed and each form has specific information.

The problem that arise from the implementation of EMR is the speed and ability to handle data that will be growing. Therefore in this final project used SENSUS methodologi to build sn ontology model for EMR that aims to analyze the methods applied. The analysis performed included the speed and ease of data retrieval and update the accuracy of the model ontology that has been built. To builds a hierarchical structure used tools called Protege and for testing the accuracy of relation between the classes used SPARQL query.

In this case, SENSUS ontology has a slow data retrieval speed when compared to other method. While for an update, SENSUS can categorize instance into the appropriate classes.

Keyword : Ontology, SENSUS, EMR, Protege, SPARQL