Object Oriented Design Approach to OriNet System: On line lexical database for Oriya language.

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Abstract

One of the major problems in the implementation of Natural Language Processing (NLP) or Machine Translation(MT) is a complete lexicon: the place where the systems information about words is stored. There are difficulties in deciding what information should be stored in a lexicon and even greater difficulties in acquiring this information in proper form. OriNet system designed to incorporate multiple lexical database and tools under one consistent functional interface in order to facilitate systems requiring syntactic, semantic and lexical information of Oriya language. We divide the whole work into two independent task. One task is to write the source file that contains the basic lexical data and the content of those files are the lexical substance of OriNet. Lexicographer did the major work of this task. In the second task was to create a set of programs those would accept the source files and processing it ultimately to display for the user. This paper describes an ongoing work on designing an Object Oriented model for OriNet system. The technology of Object Oriented programming in particular the rich library of classes and programming principles in which Java offers. It also provides a convenient tool to conceptualise the process of OriNet system. This technique also allows flexibility and extensibility of the system with more robustness.