



**Rest Services Users Manual**

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## Malayalam WordNet

WordNet is a semantic dictionary that was designed as a network following the idea that representing words and concepts as an interrelated system. WordNet groups words into sets of synonyms and provides short definitions and usage examples, also records a number of relations among these synonym sets or their members. WordNet's structure makes it a useful tool for computational linguistics and natural language processing.

WordNet can be seen as a combination of dictionary and thesaurus. WordNet superficially resembles a thesaurus, in that it groups words together based on their meanings. However, there are some important distinctions. First, WordNet interlinks not just word forms, but specific senses of words. As a result, words that are found in close proximity to one another in the network are semantically disambiguated. Second, WordNet labels the semantic relations among words, whereas the groupings of words in a thesaurus does not follow any explicit pattern other than meaning similarity.

Malayalam WordNet (മലയാളം വേർഡ് നെറ്റ്) is an on line WordNet created for Malayalam Language. Malayalam WordNet has been developed by the Department of Computer Science ,Cochin University Of Science And Technology. It gives information about the meaning of the word, position in ontology, an example sentence for the synset and the following relationships:

- Synsets/ Synonyms
- Hyponymy and hypernymy
- Holonymy
- Meronymy
- Antonyms

## Basic Structure of a Malayalam WordNet JSON/XML Object

Variable	Details
<b>Search_Result</b>	It returns the available synsets. The below fields will be included if it contains data. Else it will be empty
<b>sid</b>	Gives the id for the Synset
<b>synset</b>	Gives the synset. It list all synonyms[array form]
<b>meaning</b>	Gives the meaning of the Synset
<b>example</b>	Gives an example statement for the synset. Any one of the words in the synonym will be used in example
<b>pos</b>	Gives the POS of the word
<b>hypernym</b>	Gives the list of all related Hypernyms. Hypernyms will be represented as a sub object containing { <b>sid,synset,meaning example</b> and <b>pos</b> }
<b>hyponym</b>	Gives the list of all related Hyponyms. Hyponyms will be represented as a sub object containing { <b>sid,synset,meaning example</b> and <b>pos</b> }
<b>meronym</b>	Gives the list of all related Meronyms. Meronyms will be represented as a sub object containing { <b>sid,synset,meaning example</b> and <b>pos</b> }
<b>holonym</b>	Gives the list of all related Holonyms. Holonyms will be represented as a sub object containing { <b>sid,synset,meaning example</b> and <b>pos</b> }
<b>antonym</b>	Gives the list of all related Antonyms. Antonyms will be represented as a sub object containing { <b>sid,synset,meaning example</b> and <b>pos</b> }

## JSON Services

### Search By Word

Users could interact with Malayalam WordNet via HTTP Get method. The format of URL is as follows

[http://malayalamwordnet.cusat.ac.in/searchByWordJson.do?queryword=<word\\_to\\_be\\_searched>](http://malayalamwordnet.cusat.ac.in/searchByWordJson.do?queryword=<word_to_be_searched>)

#### Input Parameter

*queryword* – The word to be searched is assigned to the parameter. If the entered word is present in any of the synsets , they will be returned.

#### Example

<http://malayalamwordnet.cusat.ac.in/searchByWordJson.do?queryword=തെങ്ങുപ്പ>

### Search By Id

Users could interact with Malayalam WordNet via HTTP Get method. The format of URL is as follows

[http://malayalamwordnet.cusat.ac.in/searchByIdJson.do?sid=<id\\_to\\_be\\_searched>](http://malayalamwordnet.cusat.ac.in/searchByIdJson.do?sid=<id_to_be_searched>)

#### Input Parameter

*sid* – The sid to be searched is assigned to the parameter. If the synset Id is present corresponding will be returned.

#### Example

<http://malayalamwordnet.cusat.ac.in/searchByIdJson.do?sid=6828>

### Search By Word and Pos

Users could interact with Malayalam WordNet via HTTP Get method. The format of URL is as follows

[http://malayalamwordnet.cusat.ac.in/searchByWordAndPosJson.do?queryword=<word\\_to\\_be\\_searched>&id=<id\\_to\\_be\\_searched>](http://malayalamwordnet.cusat.ac.in/searchByWordAndPosJson.do?queryword=<word_to_be_searched>&id=<id_to_be_searched>)

#### Input Parameter

*queryword* – The word to be searched is assigned to the parameter. If the entered word is present in any of the synsets , they will be returned after matching the Pos.

Pos- The pos of the synset to be searched is added

#### Example

[http://malayalamwordnet.cusat.ac.in/searchByWordAndPosJson.do?queryword=തെങ്ങുപ്പ  
&pos=noun](http://malayalamwordnet.cusat.ac.in/searchByWordAndPosJson.do?queryword=തെങ്ങുപ്പ&pos=noun)

## XML Services

### Search By Word

Users could interact with Malayalam WordNet via HTTP Get method. The format of URL is as follows

<http://malayalamwordnet.cusat.ac.in/searchByWordXml.do?queryword=<word to be searched>>

#### Input Parameter

*queryword* – The word to be searched is assigned to the parameter. If the entered word is present in any of the synsets , they will be returned.

#### Example

<http://malayalamwordnet.cusat.ac.in/searchByWordXml.do?queryword=തെളിപ്പ്>

### Search By Id

Users could interact with Malayalam WordNet via HTTP Get method. The format of URL is as follows

<http://malayalamwordnet.cusat.ac.in/searchByIdXml.do?sid=<id to be searched>>

#### Input Parameter

*sid* – The sid to be searched is assigned to the parameter. If the synset Id is present corresponding will be returned.

#### Example

<http://malayalamwordnet.cusat.ac.in/searchByIdXml.do?sid=6828>

### Search By Word and Pos

Users could interact with Malayalam WordNet via HTTP Get method. The format of URL is as follows

<http://malayalamwordnet.cusat.ac.in/searchByWordAndPosXml.do?queryword=<word to be searched>&id=<id to be searched>>

#### Input Parameter

*queryword* – The word to be searched is assigned to the parameter. If the entered word is present in any of the synsets , they will be returned after matching the Pos.

Pos- The pos of the synset to be searched is added

#### Example

<http://malayalamwordnet.cusat.ac.in/searchByWordAndPosXml.do?queryword=തെളിപ്പ്&pos=noun>