

CHAPTER IV

Analysis and Design

4.1 Analysis

4.1.1 Use Case

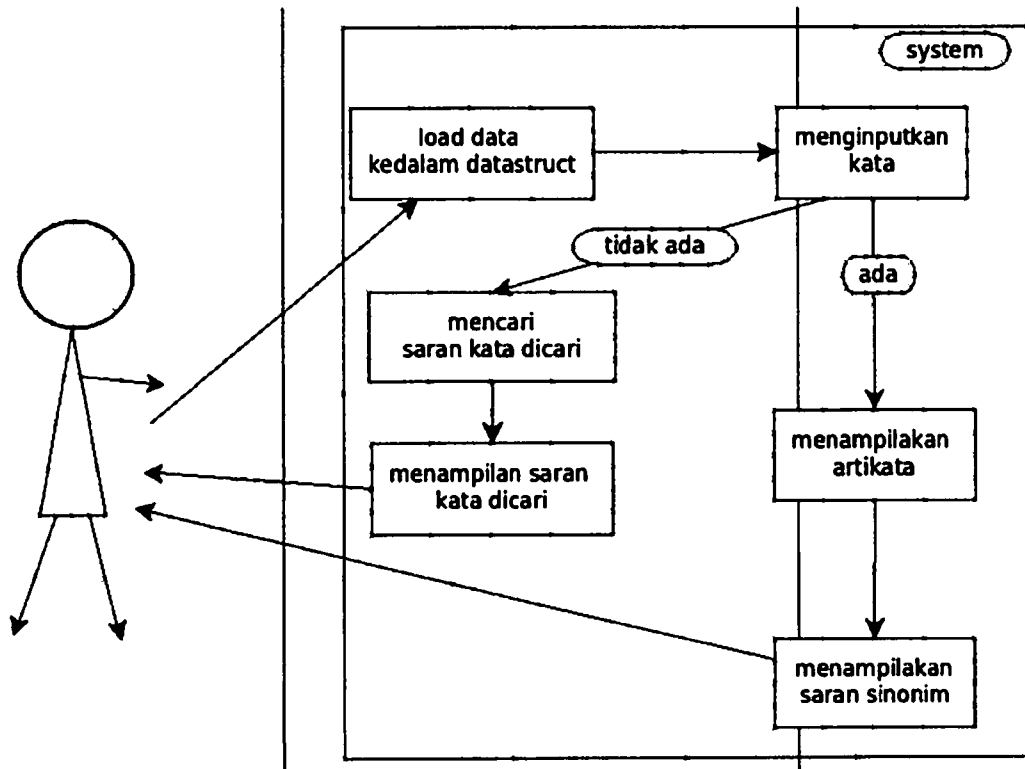


Figure 4.1 Use Case Diagram

4.2 Design

4.2.1 Class Diagram Kamus

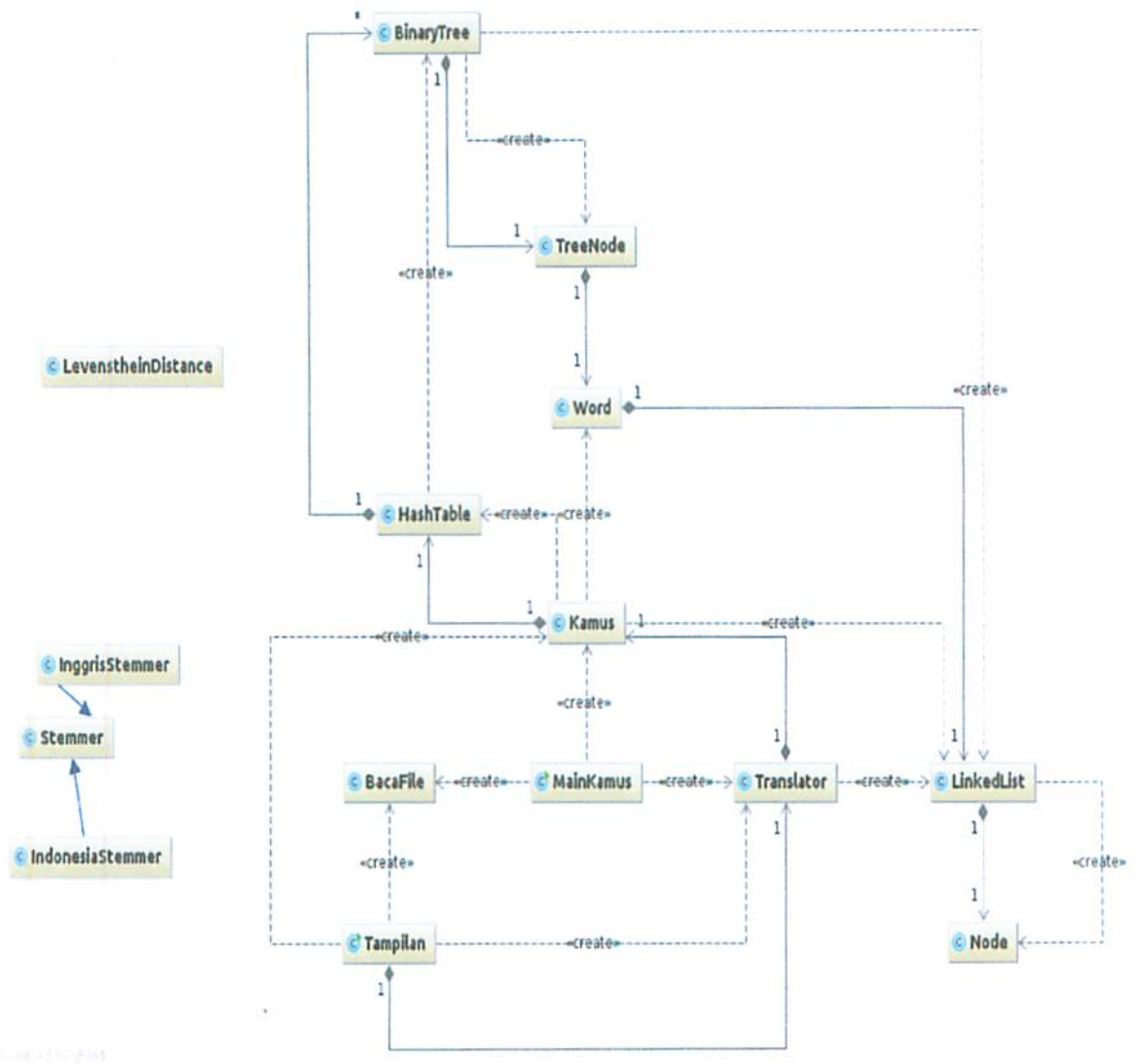


Figure 4.2 Class Diagram Kamus

4.2.2 Class Diagram Detail

4.2.2.1 Class BacaFile

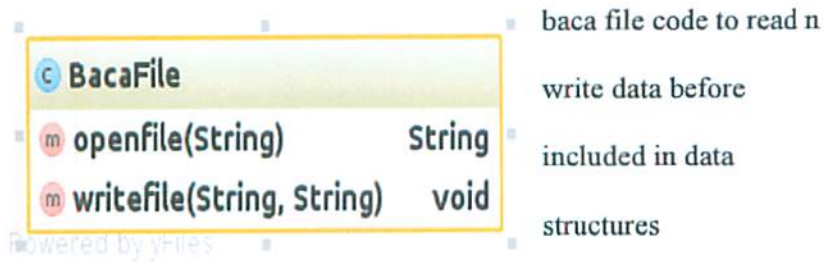


Figure 4.3 BacaFile Class

4.2.2.2 Class BinnaryTree

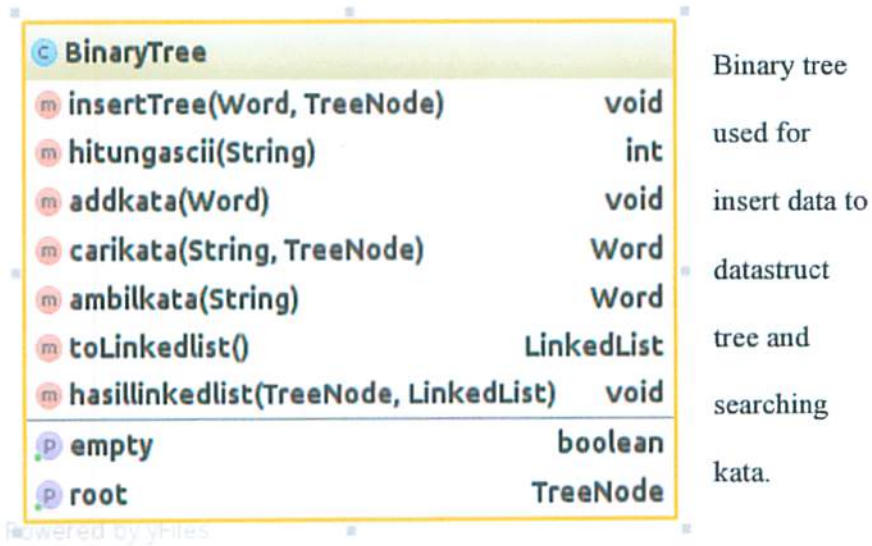


Figure 4.4 BinnaryTree Class

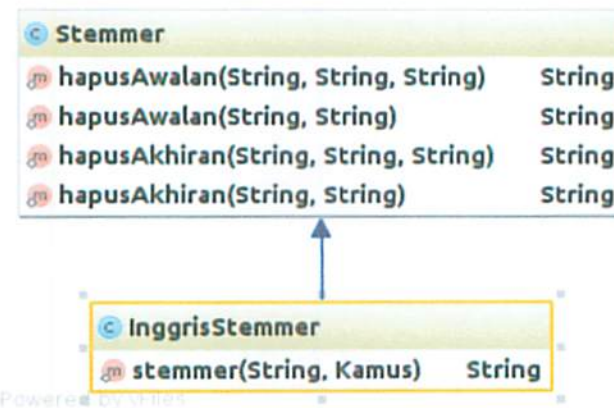
4.2.2.3 Class HashTable



Hash table used for search the position of kata and connected tree as datastruct.

Figure 4.5 HashTable Class

4.2.2.4 class InggrisStemmer



inggris stemmer used algorithm to get root word in english word.

Figure 4.6 InggrisStemmer Class

4.2.2.5 Class IndonesiaStemmer

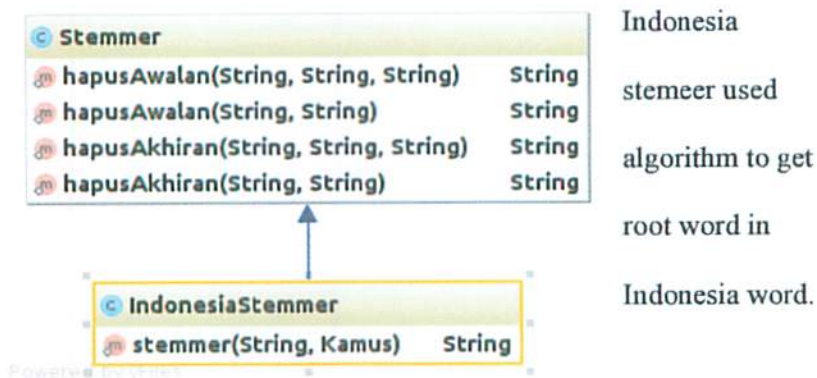


Figure 4.7 IndonesiaStemmer Class

4.2.2.6 class Kamus

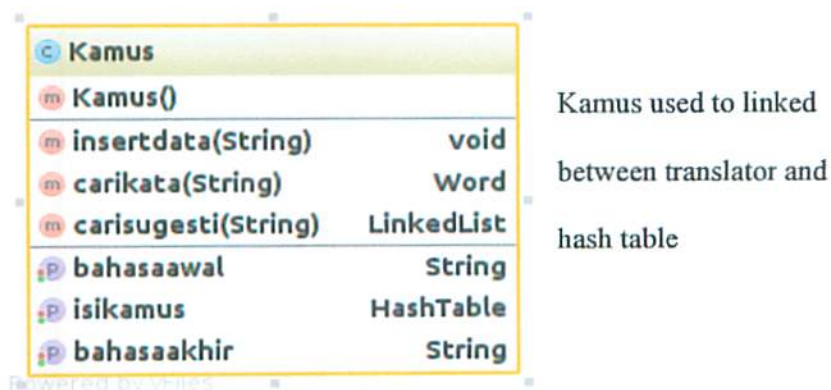


Figure 4.8 Kamus Class

4.2.2.7 class LevenstheinDistance

LevenstheinDistance		levensthein distance	
m	minimum(int, int, int)	int	is algorithm for get
m	LevenshteinDistance(String, String)	int	value string of word

Figure 4.9 LevenstheinDistance Class

4.2.2.8 class LinkedList

LinkedList		LinkedList used to	
f	position	int	create linked list
f	head	Node	
f	tail	Node	
f	curr	Node	
m	LinkedList()		data structure
m	add(Object)	void	
m	finder(int)	boolean	
m	getValueAt(int)	Object	
m	setValueAt(int, Object)	boolean	
m	clear()	void	
m	toString()	String	
p	size	int	

Figure 4.10 LinkedList Class

4.2.2.9 class MainKamus

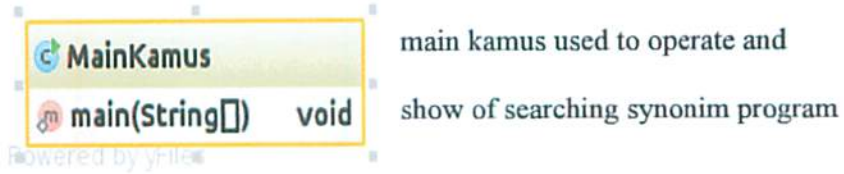


Figure 4.11 MainKamus Class

4.2.2.10 class Node

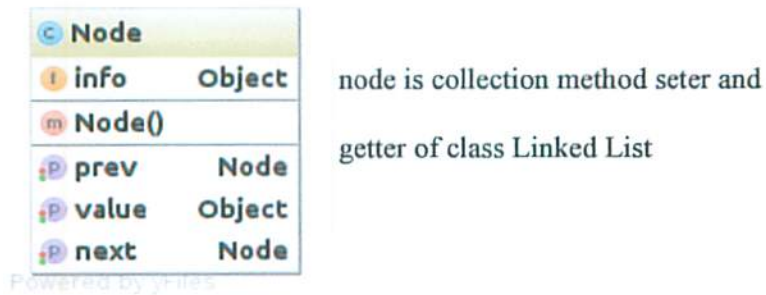


Figure 4.12 Node Class

4.2.2.11 class Stemmer

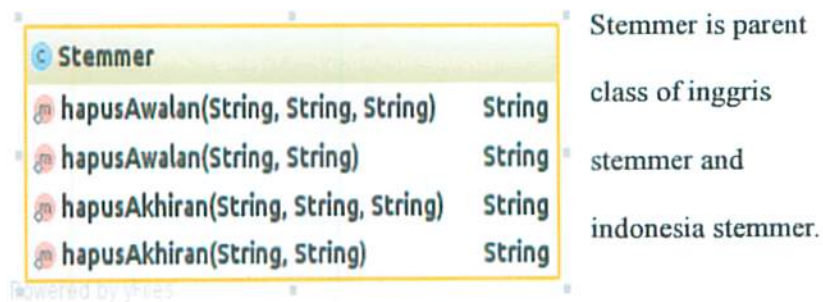
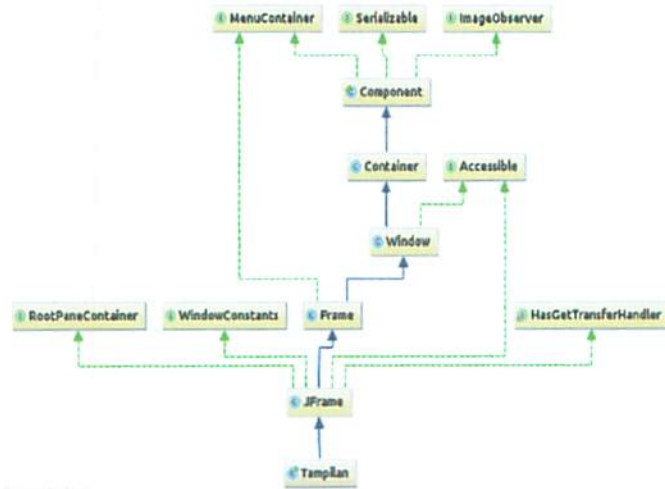


Figure 4.13 Stemmer Class

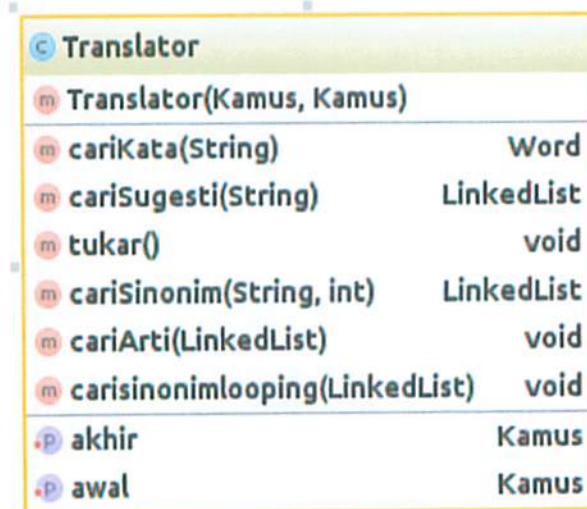
4.2.2.12 class Tampilan



Tampilan class
for show gui
of the program

Figure 4.14 Tampilan Class

4.2.2.12 class Translator



Translator class
for conected
between main
kamus and
kamus, in there
any method for
searching
synonim

Figure 4.15 Translator Class

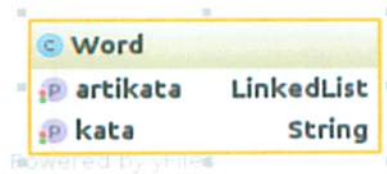
4.2.2.1 class TreeNode



Tree node used for collection setter and getter of BinaryTree class.

Figure 4.16 TreeNode Class

4.2.2.1 class Word



Word is class for set kata, get kata and get artikata kata

Figure 4.17 Word Class