type list : < arr : array

Neff : integer[1....N] >

type pengguna: < id : integer

username : string

nama : string

password : string

alamat : string

role : string [admin/user] >

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procedure clrs () {- Berguna untuk membersihkan layar konsol -}

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function parser (dipisah : string, pemisah : character) -> array of string

kamus lokal

split\_value : array of string

tmp : string

i : integer

x : integer

algoritma lokal

i <- 1

x <- 1

while dipisah do

if dipisah[i] = pemisah then

split\_value[x] <- tmp

x <- x + 1

tmp <- ""

i <- i + 1

else

tmp <- tmp + dipisah[i]

i <- i + 1

-> split\_value

--------------------------------------------------------------------------------------------------

function convert\_line\_to\_data(line : string) -> array

kamus lokal

array\_of\_data : array

algoritma

array\_of\_data <- parser(line,";")

-> array\_of\_data

--------------------------------------------------------------------------------------------------

function buka\_data(nama\_data : string) -> array, list

kamus lokal

raw\_header : array of string

header : array of string

datas : list of array

i : integer

f : Seqfile of string

ss : string

mark = ''

algoritma lokal

assign (f, nama\_data)

open(f, ss)

raw\_header <- ss

header <- convert\_line\_to\_data(raw\_header)

while ss do

array\_of\_data <- convert\_line\_to\_data(ss)

datas.arr[i] <- array\_of\_data

i <- i + 1

datas.Neff <- i

close(f)

-> header, datas

--------------------------------------------------------------------------------------------------

function cek (entri : string, data : list , kolom : integer) -> boolean

kamus lokal

algoritma lokal

baris Traversal Data

isi Traversal baris

if isi = entri then

-> True

-> False

function convert\_datas\_to\_string(header : array , body : list) -> string

kamus lokal

string\_data : string

algoritma lokal

string\_data <- header + body

-> string\_data

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function ayo\_ambil\_sebagian(array\_data : array , pencari : string, kolom\_pencari : integer, kolom\_dicari : integer) -> string

kamus lokal

algoritma lokal

--------------------------------------------------------------------------------------------------

procedure register(input/output data\_pengguna\_global : list of pengguna)

kamus lokal

new\_user\_id : integer

new\_user\_nama : string

new\_user\_username : string

new\_