Web-based Customer Information Management System for National Information Super-Highway

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-

.   Web

Web   -

Java   Java Script

,

.

Web

(GUI: Graphical User Interface)   ,

,   ,

.   Client

(Query)   , Web   -

Java   Java

Script   .

,

.

1.

Web   -

(GUI)

Web   -

.   Web   .

,

,   ,   (   )

.

Web browser   .

.   ,   Web

Web browser   (Group)   Web

,

.   .   Web

.

.

Web

[2].

Java Script . **:**

1)
Web , 2)
3)
, Web -
(GUI) **:**
Java Script 1)
2)

. , 3)
4)
. 5)

7
, 2 -
. 3 ,

. ,

,

- ,
4 . 5
.
Web HTML Java Script[1]
3.
,
(load) 3.1 Workflow

. 6
, 7 ,
.

2. Client-Server [3].

- .

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,
. , (:
. Packet, Frame Relay, ,)
,
.

. . 1

, .

1.

3.2   Database   . ,
                                                                                       ,
                                                                    ,   3
            ,   1   [3].   3
                                                                                                                  ,
                    (,   ,   ,   )   ,   ,
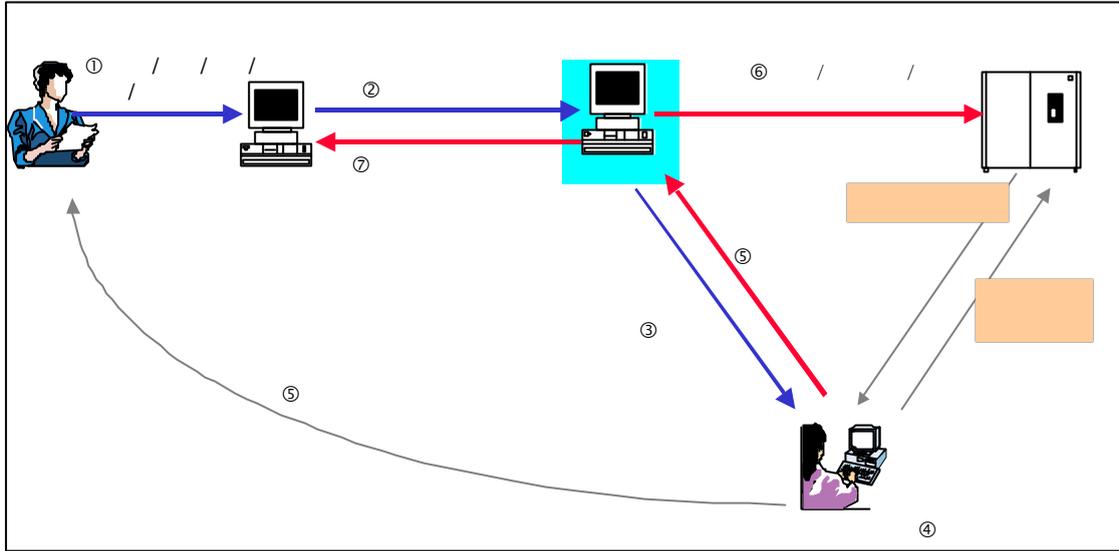   ,   (HiNet   ,   , Notification
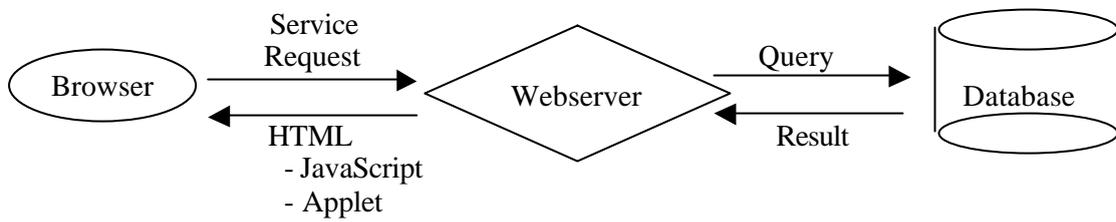P/F,   ,   )   .   .
                    ,   .

            :   ,
            ,   ,   ,
            Database   ,   ,
                                                                                                            . Text
            .   .

                            :   :
                            ,   ,   .
                        ,

                                        Notification   :
.   ,   ,

                            :

그림.   그림.

Web

Push   .   .

Web   Database

,   ,   ,   ,

Web Browser

.   .   2

Web

:   ,   .

Backup

	Service Request →		Query →	
Browser		Webserver		Database
	← HTML - JavaScript - Applet		← Result	

2.

4.   (run-time)   (binding)   .
                                 Database   Web

        3   ,

                                        Parsing process   . Parsing
        .   process

                ,
HTML   radio   checkbox   .

                                            ,   3   ,
        . ,   (:   ,
(   )   ,   /   )

                        .   .   ,
   , checkbox   ,   ,
        .   .

                    .   .   , parsing process
         , checkbox   (
                embedded SQL   )   .
          (Query)   SQL   .
   Database   Dynamic SQL[4]   parsing
            . Dynamic SQL   process   Dynamic SQL
CGI   Program   embed   parsing
                                                 process   .
        selection field

                                                ,

parsing process

.

.

T^s

,

3.

$$T^s = \sum_i^n \left(T_i^q + T_i^p \right)$$

, T^q

, T^p

parsing   , n
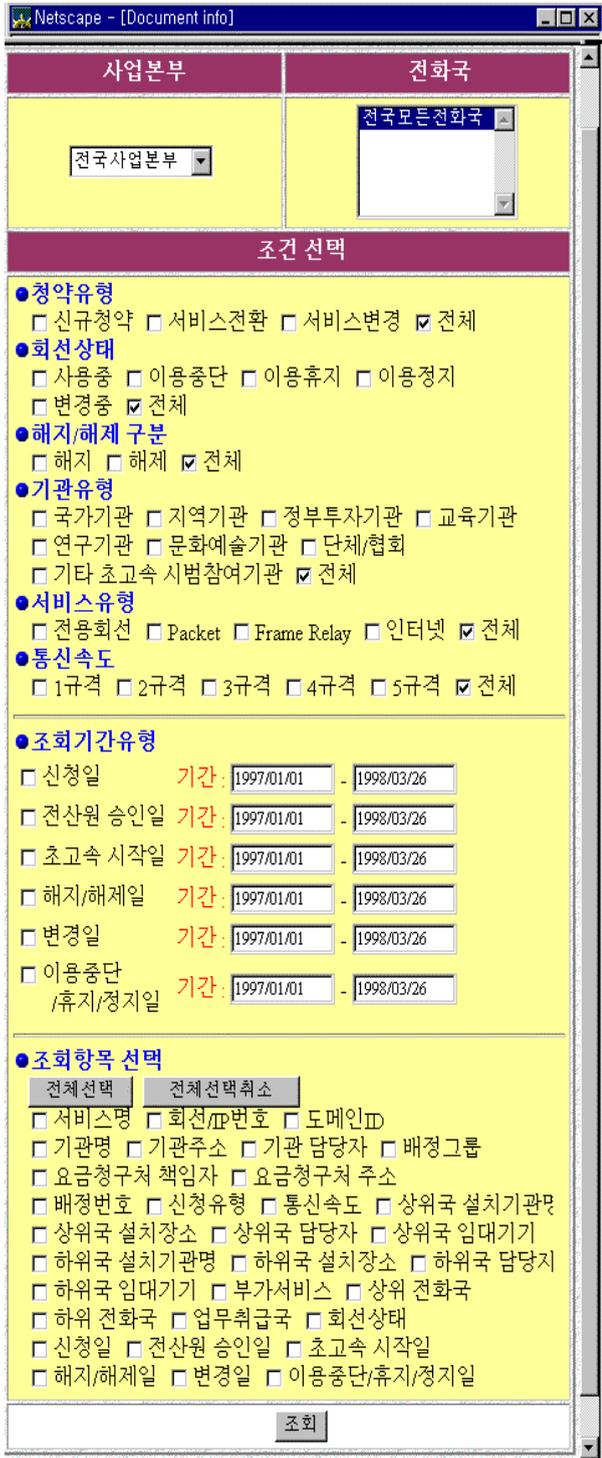
.

5. Java-based Smart Client

Parsing
,
. ,
checkbox
string
,
.   ,   3
,   ,
, kukka=*default* & jiyok=1 &
jungbu_tuja=1   &   kyoyuk=*default*   &
yeonku=*default* & munhwa=1 & danchae=*default*
& kita=*default* & kigwan_all=*default*   parsing
process   (jiyok,   jungbu_tuja,
munhwa)   string   .   string
SQL   where   .
,
,   string
.

.   , Web
Java script   applet
.   4

HTML
.

```
<HTML><HEAD>                          <BODY>
<SCRIPT LANGUAGE=JavaScript>          <form name="xx" method="POST"
<!--                                  action="procedure_name target="_parent">
.....                                 .......
function check_string_submit()        <input type="button" name="ok" value="     "
                                      onClick="check_string_submit()">
 // checkbox                           </form>
 //                                    </BODY
 // string    variable    assign>      </HTML>
 // variable     submit
//-->
</SCRIPT>
</HEAD>
```
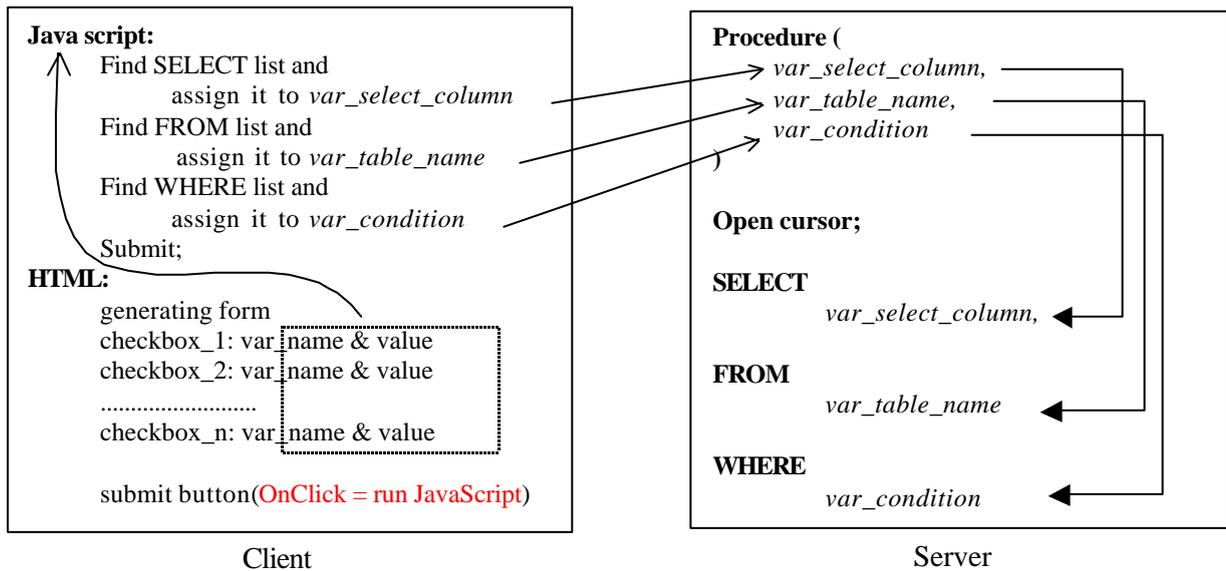
4. Java Script

HTML   Body   form
Form   .   Form   radio button,
checkbox, textbox, list-box   .   ,   SELECT,
.   form   FROM, WHERE   string
                                    ,   string
, submit button   Java Script   DB   .
check_string_submit()   .   5   .

```
Java script:                              Procedure (
    Find SELECT list and                      var_select_column,
         assign it to var_select_column       var_table_name,
    Find FROM list and                        var_condition
          assign it to var_table_name     )
    Find WHERE list and
         assign it to var_condition        Open cursor;
Submit;
HTML:                                       SELECT
    generating form                                var_select_column,
    checkbox_1: var name & value
    checkbox_2: var name & value            FROM
    ........................                        var_table_name
    checkbox_n: var name & value
                                            WHERE
    submit button(OnClick = run JavaScript)        var_condition
```

Client   Server

5.   Client   string   Server

6.

5   4   5
parsing process

,

.   parsing

,

$T^{s'}$

$$T^{s'} = \sum_{i}^{n} T_i^q + T^c$$

, T^c

checkbox

,   (:

)   string(: jiyok, jungbu_tuja, munhwa)

.

.

1   query

.   ,

(High)

(Low)   query

(Low)

parsing process   query

.

Web

(:   3),

Java

.

.

1.

	Client		
High	High	High	$T^s > T^{s'}$
High	High	Low	$T^s > T^{s'}$
High	Low	High	$T^s > T^{s'}$
High	Low	Low	$T^s < T^{s'}$
Low	High	High	$T^s \gg T^{s'}$
Low	High	Low	$T^s > T^{s'}$
Low	Low	High	$T^s > T^{s'}$
Low	Low	Low	$T^s > T^{s'}$

,

.

(Client

: High,   n : High)

7.

.   ,

Web

, Web

Client   ,

Web   -

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Web browser
,

Web browser

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Web
Java script
(Query)

.

Web
Client

, Web

-

Java Script
,   (Server   Client)

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Web   /

Java

Scrip   Java Applet

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,   *Using Java Script*,   ,
1997

[2]   ,   ,   , "   /
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1999   ,
1999-   ,
<   >   ,   Host
IDS   ,

1986 KAIST
1996 KAIST
1986 ~
(.
)
<   > Distributed Processing, Load
Balancing, Network Management, DBMS

1984
1986
1986-

1983
1980-

1998-　　　　TM Forum Board of
Trustee

1986
1991 Univ. of Missouri

1995 Univ. of Missouri

1991-95 Univ. of Missouri, Research/Teaching Assistant
1995-96
1996-99
1999-
<　　　>　　　　　　　　, Data Mining,