

Approach of Real Integrated Price language in Automation of Marketing Research Tool -Resolving Issue with Backup of CBR

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Abstract— This research effort aims to automate the marketing research tool using real integrated price language and attempts to investigate its advantages over traditional expert systems approach. Real Integrated Price language work in various phases of tool Processing and Tool divided into the different parts on which the language show the capability:- a) Interface of Client Requirements Input b) URL Creator and Checker c) Streaming of the URL hit d) Crawling the web page e) Extract the information from the web Pages f) Creating the Final Report of the Extracted information g) Showing the All Data on the GUI interface. In this work input enter by the client is only manual process after this the complete process is process automatically by the tool and the language design for this is real integrated price language and it improve the efficiency of marketing research tool by 37 present and resolve the issue if phase by the system with case base reasoning approach.

Keywords— CBR, Marketing tool, Multi-agent system.

I. INTRODUCTION

Real Integrated Price Language is divided into the different parts RIPL is a scripting language like assembly[1], which is used to write the scripts for some specific needs. Generation of Dynamic URLs.

1. Crawling.
2. Extraction.
3. Report Generation.

But it is further subdivided in more parts. The collect the information like Hotel Name, Check-date, Checkout-date, Room Rate and Room Description with the help of this application i) Crawl the Web Pages from the different -2 sites with the help of URLs ii) Generation of URLs iii) Extract the information from the web Pages iii) Creating the Final Report of the Extracted information iv) Showing the All Data on the GUI interface[2]

II. COMMANDS IN REAL INTEGRATED PRICE LANGUAGE

Some Data type used in RIPL

a) **Int** :-

This instruction is used for declaring a integer variable.

b) **Mov** :-

This instruction is used to assign a value to a given variable.

c) **Writestring** :-

This instruction is used for copying string into HEAP.

d) **readline** :-

This instruction is used to read the specified Line into the RIPL interpreter file data buffer. This caching of data results in reduced disk access and faster processing of file data.

e) **Writech** :-

This instruction is used for accessing the HEAP at character level, to write value into it.

f) **writenewline** :-

This instruction is used to writing the specified Line into the a file interpreter file data buffer.

g) **Readpage** :-

This instruction is used to read the specified file data into the RIPL interpreter file data buffer.

h) **If=0** :-

This instruction helps in performing conditional branching

i) **if>0** :-

This instruction helps in performing conditional branching, if the first argument of this instruction evaluates to greater than zero.

j) **If<0** :-

This instruction helps in performing conditional branching, if the first argument of this instruction evaluates to less than zero.

k) **tostring** :-

This instruction helps in performing the type conversion. To string can convert the value into string.

l) **tono** :-

This instruction helps in performing the type conversion. To int can convert the value into Integer.

m) **print** :-

This instruction is currently used for monitoring purpose

n) **goto** :-

This instruction is used for performing unconditional branching.

o) **crawl** :-

This instruction is used for crawl the webpages corresponding to a particular URL.

p) **Readpage** :-

This instruction is used to read the specified file data into the RIPL interpreter file data buffer.

q) **SetHead** :-

This instruction is similar in behavior to set the Cursor of currently used RIs.

r) movehead:-

This instruction is similar in behavior to Move Cursor of currently used RIs.

s) scanfwd :-

This instruction is to take the file pointer to the location in file where a given search string exists.

t) gettext :-

This instruction starts copying from current file pointer position into HEAP at a specified address until the terminating string string expression is found.

u) exit :-

This instruction is to terminate the program execution. As soon as this instruction is encountered, the program execution terminates.

v) Broadcast :-

This instruction is used for printing the result which is on the Heap location.

III. PROCESSING AND EXECUTION OF STEPS IN REAL INTEGRATED PRICE LANGUAGE

Step 1

Interface of Client Requirements Input

Step 2

URL Creator and Checker

For collection of information like from web-link first of all url is generated according to SRS, url generated and maintain a file (Target page url may be from branded or commercial site according to specification)

```

20 int count
21 int found
22 int stringe
23 int reverse
24 int hotelid
25 wtech 6000 13
26 wtech 6002 10
27 int stringno
28 int startDay
29 int startMonth
30 int startYear
31 int ABP
32 wtech 13000 48
33 int tempMonth
34 int tempMonthLike
35 wtech "URL Out.txt" 8000
36 tno 0 hotelid
37 readline "Hotel id not hotelid 7500 found
38 if=0 found jump 500
39 tno 32 startDay
40 tno 04 startMonth
41 tno 06 startYear
42 m or tempMonth startMonth
43 tno 128 ABP
44 if=0 (cont.ABP) jump 540
45 newdate startDay startMonth startYear 1
46 tostring startDay 2500
47 tostring startMonth 2500
48 tostring startYear 2500
49 tno 2500 tempMonthOne
45 readline "UrlTemplate.txt" 0 7000 found
450 wtechnewline [8000] [7000]
451 wtechnewline [8000] [6]
452 readline "UrlTemplate.txt" jump 440
453 wtechnewline [8000] [13000]
454 wtechnewline [8000] [64]
455 readline "UrlTemplate.txt" 1 7000 found
456 wtechnewline [8000] [7000]
457 wtechnewline [8000] [2518]
458 if=0 (tempMonthOne) jump 455
459 wtechnewline [8000] [13000]
460 wtechnewline [8000] [2509]
461 readline "UrlTemplate.txt" 2 7000 found
462 wtechnewline [8000] [7000]
463 wtechnewline [8000] [64]
464 if=0 (tempMonth) jump 475
465 wtechnewline [8000] [13000]
466 wtechnewline [8000] [64]
467 readline "UrlTemplate.txt" 3 7000 found
468 wtechnewline [8000] [7000]
469 wtechnewline [8000] [64]
470 readline "UrlTemplate.txt" 4 7000 found
471 wtechnewline [8000] [7000]
472 wtechnewline [8000] [2518]
473 if=0 (tempMonthOne) jump 498
474 wtechnewline [8000] [13000]
475 wtechnewline [8000] [2509]
476 readline "UrlTemplate.txt" 5 7000 found
477 wtechnewline [8000] [7000]
478 wtechnewline [8000] [2500]
479 readline "UrlTemplate.txt" 6 7000 found
480 wtechnewline [8000] [7000]
481 wtechnewline [8000] [2500]
482 readline "UrlTemplate.txt" 7 7000 found
483 wtechnewline [8000] [7000]
484 wtechnewline [8000] [6000]
485 wtechnewline [8000] [6000]
486 copybytes 2500 32 8
487 copybytes 2518 94 8
488 m or const count+1
489 goto 555
490 exit
491 wtechnewline [8000] "Hotel Not Available"
492 exit
    
```

Fig-1. Dynamic URL generation code in RIPL

Step 3

Streaming of the URL hit:- Stream the url in particular order in which they hit

```

http://www.example.com/...
http://www.example.com/...
http://www.example.com/...
http://www.example.com/...
http://www.example.com/...
http://www.example.com/...
http://www.example.com/...
http://www.example.com/...
    
```

Fig-2. Streaming URL File

Step 4

Crawling the web page:- In this the target page is downloaded from the source in to particular location so that we can further use it for extraction the data

```

// *****Reading the URL from a URL file
43 writestring [160] 10000
44 writestring "URLOut.txt" 12000
45 mov iStringOneIndex 10000
46 mov iStringTwoIndex 12000
47 mov retaddress 50
48 goto 430
50 readline "URLOut.txt" urlno 33000 RdLineResult
51 if=0 RdLineResult jump 79
// **increment in the URLno for creating the Page no (1,2,3,4,5,6.....)
52 mov PageNo urlno+1
53 tostring PageNo 1031
// **Value of PageNo,*****
54 mov iStringOneIndex 1031
// **File Extension *****
55 mov iStringTwoIndex 1025
// **Assigning the value for returning by the function
56 mov retaddress 58
// Jump to strat() definition
57 goto 430
58 writestring [160] 7000
59 mov iStringOneIndex 7000
60 mov iStringTwoIndex 1031
61 mov retaddress 64
62 print [7000]
63 goto 430
// 50000 for null Value (Proxy)
64 crawl 7000 2000 33000 50000 PageSize PageState
65 if=0 urlno jump 83
66 mov PageSize PageSize/1024
67 print PageSize
68 if=0 One jump 75
69 mov Attempt Attempt+1
70 if=0 Attempt-4 jump 72
71 if=0 PageSize-SizeOne jump 80
72 mov Attempt 0
73 mov urlno urlno+1
74 goto 86
75 mov One One+1
76 mov urlno urlno+1
77 mov SizeOne PageSize
78 goto 86
79 Exit
80 print "Crawl-Error"
81 print [7000]
82 goto 64
85 goto 66
86 copybytes 7000 20000 32
87 goto 50
// End of Crawling here
// *****function Definition for strat() *****
430 int iSrcIndex
431 int iSuffixIndex
432 int iAscii
433 mov iSrcIndex iStringOneIndex
434 mov iSuffixIndex iStringTwoIndex
435 readch iSrcIndex iAscii
436 if=0 iAscii jump 439
437 mov iSrcIndex iSrcIndex+1
438 goto 434
439 readch iSuffixIndex iAscii
440 writch iSrcIndex iAscii
441 if=0 iAscii jump 445
442 mov iSuffixIndex iSuffixIndex+1
443 mov iSrcIndex iSrcIndex+1
444 goto 439
445 free iSrcIndex
446 free iSuffixIndex
447 free iAscii
448 goto retaddress
    
```

Fig-3. Crawling code in RIPL

VI. CONCLUSIONS

In this work input enter by the client is only manual process after this the complete process is process automatically by the tool and the language design for this is real integrated price language and it improve the efficiency of marketing research tool by 37 present and resolve the issue if phase by the system with case base reasoning approach

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