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1 /*-----
2 | The "cgiParse"-class contains
3 | REXX Methods to handle CGI-Environment variables
4 | e.g. parse the query-string, ...
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7 | based on CGI_Parse by Sacha Prins
8 | (slightly modified version) 24.11.2000
9 |-----*/
10
11 ::CLASS cgiParse PUBLIC                                -- works only with CGI-GET-Method
12
13 ::METHOD parseQueryString
14     queryString = self~getEnv('QUERY_STRING')          --retrieve query string from the environment
15     queryString= TRANSLATE(queryString, ' ', '+')      --retranslate '+'-Symbols to Spaces
16     DO WHILE LENGTH(queryString) > 0
17         varCouple= ''
18         PARSE VAR queryString varCouple '&' queryString --find parts between '&'-Symbol
19         PARSE VAR varCouple varName '=' varVal          --and split them into varName and varValue
20         IF varName = '' || varVal= '' THEN ITERATE      --anything empty? => then find next part
21         varName= 'cgi.' || self~urlDecode(varName)      --prepare stem-variable name, decode '%'-Expressions
22         varVal= self~urlDecode(varVal)                  --prepare value and decode '%'-Expressions
23         IF SYMBOL(varName) = 'BAD' THEN ITERATE         --varName cannot be used as a Rexx-Variable, find next part
24
25                                                         --multiple assignments to the same variable?
26                                                         --retain old value and append new, separated by 'Linefeed'
27         IF VALUE(varName) \= TRANSLATE(varName) THEN call VALUE varName, VALUE(varName) || '0a'x || varVal
28         ELSE call VALUE varName, varVal                 --assign the variable to the Rexx-Stem-Variable
29     END
30     RETURN cgi.                                         --return Stem Variable
31
32 /*****
33 :: METHOD URLDecode PRIVATE
34     IF ARG()\=1 THEN RETURN ''                        --only one argument permitted
35     line= ARG(1)
36     lineLen= LENGTH(line)
37     newLine= ''
38     i=1

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39         DO WHILE i <= lineLen
40             c= SUBSTR(line, i, 1)
41             IF c \= '%' THEN newLine = newLine || c      --normal character? => then append
42             ELSE IF i+2 <= lineLen THEN                  --is tested char = '%' (special char in query strings)?
43                 DO
44                     newLine= newLine || x2c(SUBSTR(line, i+1, 2)) --append decoded character
45                     i=i+2
46                 END
47             i= i+1
48         END
49         RETURN newLine                                --return completely decoded string
50
51     /*****/
52     ::METHOD getEnv PRIVATE
53         RETURN VALUE(ARG(1),, 'ENVIRONMENT')            --retrieves variable from environment
54
55     /*****/
56     ::METHOD putEnv PRIVATE                             --sets an environment variable
57         RETURN VALUE(ARG(1), ARG(2), 'ENVIRONMENT')    --(not used here)
58 /*****/
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