Package ‘xmlrpc2’

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Type Package

Title Implementation of the Remote Procedure Call Protocol ('XML-RPC')

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Description The 'XML-RPC' is a remote procedure call protocol based on 'XML'. The 'xmlrpc2' package is inspired by the 'XMLRPC' package but uses the 'curl' and 'xml2' packages instead of 'RCurl' and 'XML'.

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Imports curl, xml2, base64enc

RoxygenNote 6.1.0

NeedsCompilation no

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  from_xmlrpc  Convert from the XML-RPC Format into an R Object.

Description

  Convert an object of class "xml_code" or a character in the XML-RPC Format into an R Object.
Usage

from_xmlrpc(xml, raise_error = TRUE)

Arguments

xml a character string containing XML in the remote procedure call protocol format.
raise_error a logical controlling the behavior if the XML-RPC signals a fault. If TRUE an error is raised, if FALSE an object inheriting from "c("xmlrpc_error", "error")" is returned.

Value

an R object derived from the input.

Examples

params <- list(1L, 1:3, rnorm(3), LETTERS[1:3], charToRaw("A"))
xml <- to_xmlrpc("some_method", params)
from_xmlrpc(xml)

rpc_serialize Convert R Objects into the XML-RPC Format

Description

Serialize R Objects so they can be passed to to_xmlrpc as parameters.

Usage

rpc_serialize(x, ...)

Arguments

x an R object.
... additional optional arguments (currently ignored).

Value

an object of class "xml_node".

Examples

rpc_serialize(1L)
rpc_serialize(1:2)
rpc_serialize(LETTERS[1:2])
to_xmlrpc

Create a XML-RPC Call

Description

abc

Usage

to_xmlrpc(method, params)

Arguments

method a character string giving the name of the method to be invoked.
params a list containing the parameters which are added to the XML file sent via the remote procedure call.

Value

an object of class "xml_node" containing a XML-RPC call.

Examples

params <- list(1L, 1:3, rnorm(3), LETTERS[1:3], charToRaw("A"))
cat(as.character(to_xmlrpc("some_method", params)))

xmlrpc

Call the Remote Procedure

Description

Call a remote procedure with the XML-RPC protocol.

Usage

xmlrpc(url, method, params = list(), handle = NULL, opts = list(),
convert = TRUE, useragent = "xmlrpc", raise_error = TRUE)
Arguments

url a character string giving the url to the server.
method a character string giving the name of the method to be invoked.
params a list containing the parameters which are added to the XML file sent via the remote procedure call.
handle a object of class "curl_handle".
opts a list of options passed to the function "handle_setopt".
convert a logical, if convert is TRUE (default) the curl response is converted else it is left unchanged.
useragent a character string giving the name of the "User-Agent".
raise_error a logical controlling the behavior if the status code of curl_fetch_memory signals an error. If raise_error is TRUE an error is raised, if raise_error is FALSE no error is raised and an object inheriting from c("fetch_error", error") is returned. This object is the return value from \code{curl_fetch_memory} where just the class \code{c("fetch_error", error")} is added.

Value

the response of curl or the response converted to R objects.

Examples

## Not run:
url <- "https://www.neos-server.org"
xmlrpc(url, "listAllSolvers")
xmlrpc(url, "listSolversInCategory", params = list(category = "socp"))

## End(Not run)
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