Package ‘xmlrpc2’

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Type Package
Title Implementation of the Remote Procedure Call Protocol ('XML-RPC')
Version 1.1
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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 'RCurl' and 'XML'.
License GPL-3
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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.
from_xmlrpc(xml, raise_error = TRUE)

Arguments
xml
raise_error

Value

Examples
params <- list(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
...

Value
an object of class "xml_node".

Examples
rpc_serialize(1:3)
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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