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 'RCurl' and 'XML'.

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Imports curl, xml2, base64enc

RoxygenNote 6.1.0

NeedsCompilation no

Repository CRAN

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R topics documented:

`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 controling 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 parmeters 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 reomte 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 parmeters 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 controling 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 reponse 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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