

Package ‘tab2xml’

April 1, 2025

Type Package

Title XML Generation from Tables

Version 1.1.0

Description Converting structured data from tables into XML format using predefined templates ensures consistency and flexibility, making it ideal for data exchange, reporting, and automated workflows.

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URL <https://josesamos.github.io/tab2xml/>,
<https://github.com/josesamos/tab2xml>

BugReports <https://github.com/josesamos/tab2xml/issues>

Imports readODS, readxl, stringr, tools

Suggests knitr, rmarkdown, testthat (>= 3.0.0), xml2

VignetteBuilder knitr

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.3.2

NeedsCompilation no

Author Jose Samos [aut, cre] (<<https://orcid.org/0000-0002-4457-3439>>),
Universidad de Granada [cph]

Maintainer Jose Samos <jsamos@ugr.es>

Repository CRAN

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 check_tab

Validate and Check Spreadsheet Data

Description

This function validates the structure of a spreadsheet file by checking its sheets, primary keys (PKs), and foreign keys (FKs). If a template file is provided, it also checks the column definitions.

Usage

```
check_tab(file_path, template_path = NULL)
```

Arguments

`file_path` Character. Path to the spreadsheet file to be validated.

`template_path` Character (optional). Path to the template file for validation. If 'NULL', only the sheet structure is checked.

Value

Logical. Returns "TRUE" but warns of possible errors.

 sheet2xml

Convert a Spreadsheet to XML

Description

It reads a spreadsheet file (Excel or ODS), processes it using a provided XML template, and generates an XML output file.

Usage

```
sheet2xml(file_path, template_path, xml_path = NULL, optimize = FALSE)
```

Arguments

`file_path` Character. Path to the spreadsheet file to be converted. Supports Excel (.xlsx) and ODS formats.

`template_path` Character. Path to the XML template file to guide the transformation process.

`xml_path` Character (optional). Output path for the generated XML file. If NULL, it is considered an XML file with the same name and location as the spreadsheet file.

`optimize` Boolean. Remove empty nodes from the xml file.

Value

Character. The file path of the generated XML document.

Examples

```
source_xml <- system.file("extdata", "schema_template.xml", package = "tab2xml")
```

```
source_xlsx <- system.file("extdata", "schema.xlsx", package = "tab2xml")  
temp_file1 <- tempfile(fileext = ".xml")  
sheet2xml(source_xlsx, source_xml, temp_file1)
```

```
source_ods <- system.file("extdata", "schema.ods", package = "tab2xml")  
temp_file2 <- tempfile(fileext = ".xml")  
sheet2xml(source_ods, source_xml, temp_file2)
```

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