

Package ‘factset.protobuf.stachextensions’

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Title 'FactSet' 'STACH' Extensions Package

Version 1.0.4

Description Allow clients to convert 'FactSet' 'STACH' formatted data to simpler tabular formats in the form of data frames. This package also provides helper methods to extract the meta data from 'FactSet' 'STACH' formatted data. See documentation on the 'GitHub' repository for more information.

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URL <https://github.com/factset/stach-extensions>

BugReports <https://github.com/factset/stach-extensions/issues>

Imports jsonlite, R6, stringr

Suggests testthat

SystemRequirements ProtoBuf libraries and compiler version 3.3.0 or later; On Debian/Ubuntu these can be installed as libprotoc-dev, libprotobuf-dev and protobuf-compiler, while on Fedora/CentOS protobuf-devel and protobuf-compiler are needed.

Encoding UTF-8

RoxygenNote 7.2.1

NeedsCompilation no

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Repository CRAN

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V2ColumnOrganizedStachExtension

V2ColumnOrganizedStachExtension

Description

The purpose of this class is to provide the helper methods for converting stach(column organized) to Tabular format and to get meta data from stach

Methods

Public methods:

- [V2ColumnOrganizedStachExtension\\$ConvertToDataFrame\(\)](#)
- [V2ColumnOrganizedStachExtension\\$GetMetadata\(\)](#)
- [V2ColumnOrganizedStachExtension\\$clone\(\)](#)

Method ConvertToDataFrame(): This function is used for converting stach to Tabular format

Usage:

```
V2ColumnOrganizedStachExtension$ConvertToDataFrame(package, mergeHeaders)
```

Arguments:

package Stach Data which is represented as a Package object

mergeHeaders Accepts Type as BOOLEAN,by default takes TRUE. If the value is TRUE, headers will be merged with column data as output in dataframe If the value is FALSE, headers will be added to column data as output in dataframe

Returns: Returns the List of data frame for the stach data

Method GetMetadata(): This function is used to get meta data from stach

Usage:

```
V2ColumnOrganizedStachExtension$GetMetadata(package)
```

Arguments:

package Stach Data which is represented as a Package object

Returns: Returns the List of metadata for the stach data

Method clone(): The objects of this class are cloneable with this method.

Usage:

```
V2ColumnOrganizedStachExtension$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

Examples

```
## Not run:
package <- 'Stach data which is converted into ColumnOrganized Package'
stachExtensioncol <-
factset.protobuf.stachextensions::V2ColumnOrganizedStachExtension$new()
dataFrame <- stachExtensioncol$ConvertToDataFrame(package)

## End(Not run)
```

V2ColumnOrganizedStachUtilities

V2ColumnOrganizedStachUtilities

Description

Provide helper functions for column organized stach

Methods**Public methods:**

- [V2ColumnOrganizedStachUtilities\\$GetPrimaryTableIds\(\)](#)
- [V2ColumnOrganizedStachUtilities\\$Decompress\(\)](#)
- [V2ColumnOrganizedStachUtilities\\$clone\(\)](#)

Method GetPrimaryTableIds(): Get Primary Table Ids

Usage:

V2ColumnOrganizedStachUtilities\$GetPrimaryTableIds(package)

Arguments:

package Stach Data which is represented as a Package object

Returns: Returns list of primary table ids

Method Decompress(): Get decompress stach data

Usage:

V2ColumnOrganizedStachUtilities\$Decompress(package)

Arguments:

package Stach Data which is represented as a Package object

Returns: Returns decompressed stach data

Method clone(): The objects of this class are cloneable with this method.

Usage:

V2ColumnOrganizedStachUtilities\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

Examples

```
## Not run:
compressedFilePath <- 'Path of your json file'
compressedData <- jsonlite::read_json(path=compressedFilePath,
auto_unbox=TRUE)
stachUtilities <-
factset.protobuf.stachextensions::V2ColumnOrganizedStachUtilities
primaryTableIds <-
stachUtilities$public_methods$GetPrimaryTableIds(compressedData)

## End(Not run)

## Not run:
compressedFilePath <- 'Path of your json file'
compressedData <- jsonlite::read_json(path=compressedFilePath,
auto_unbox=TRUE)
utility <-
factset.protobuf.stachextensions::V2ColumnOrganizedStachUtilities$new()
deCompressedData <- utility$Decompress(compressedData)

## End(Not run)
```

V2RowOrganizedStachExtension

V2RowOrganizedStachExtension

Description

The purpose of this class is to provide the helper methods for converting stach(row organized) to Tabular format and to get meta data from stach

Methods

Public methods:

- [V2RowOrganizedStachExtension\\$ConvertToDataFrame\(\)](#)
- [V2RowOrganizedStachExtension\\$GetMetadata\(\)](#)
- [V2RowOrganizedStachExtension\\$clone\(\)](#)

Method [ConvertToDataFrame\(\)](#): This function is used for converting stach to Tabular format

Usage:

```
V2RowOrganizedStachExtension$ConvertToDataFrame(package, mergeHeaders)
```

Arguments:

package Stach Data which is represented as a Package object

mergeHeaders Accepts Type as BOOLEAN, by default takes TRUE. If the value is TRUE, headers will be merged with column data as output in dataframe. If the value is FALSE, headers will be added to column data as output in dataframe

Returns: Returns the List of data frame for the stach data

Method GetMetadata(): This function is used to get meta data from stach

Usage:

V2RowOrganizedStachExtension\$GetMetadata(package)

Arguments:

package Stach Data which is represented as a Package object

Returns: Returns the List of metadata for the stach data

Method clone(): The objects of this class are cloneable with this method.

Usage:

V2RowOrganizedStachExtension\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

Examples

```
## Not run:
package <- 'Stach data which is converted into RowOrganized Package'
stachExtensionrow <-
factset.protobuf.stachextensions::V2RowOrganizedStachExtension$new()
dataFrame <- stachExtensionrow$ConvertToDataFrame(package)

## End(Not run)
```

V2StachUtilities

V2StachUtilities

Description

The purpose of this class is to provide the helper methods

Methods

Public methods:

- [V2StachUtilities\\$GetMappingObject\(\)](#)
- [V2StachUtilities\\$ValueToString\(\)](#)
- [V2StachUtilities\\$clone\(\)](#)

Method GetMappingObject(): Helper method for getting the value corresponding to the given key from the object.

Usage:

V2StachUtilities\$GetMappingObject(objectMap, key, keyname = "key")

Arguments:

objectMap Mapping object value
 key Mapping object corresponding key value
 keyname Mapping object corresponding key name

Returns: Returns the value corresponding to the given key from the object

Method ValueToString(): Helper method for converting value to string

Usage:

V2StachUtilities\$ValueToString(value)

Arguments:

value Value that should be converted to string

Returns: Returns the value by converting corresponding value to string

Method clone(): The objects of this class are cloneable with this method.

Usage:

V2StachUtilities\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

Examples

```
## Not run:
package <- 'Stach data which is converted into RowOrganized Package'
tableData <-
V2StachUtilities$public_methods$GetMappingObject(package$tables,
primaryTableId)$value

## End(Not run)
```

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