

Package: repfishr (via r-universe)

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Title Fisheries data reporting flows

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Depends R (>= 4.2)

Imports R6, methods, tibble, magrittr, jsonlite, yaml, readr, mime,
lubridate, sf, terra, vrule, fdi4R, fdisfdata, writexl,
openxlsx

Remotes fdiwg/vrule, fdiwg/fdi4R, fdiwg/fdisfdata

Suggests parallel, testthat

Description R framework to facilitate fisheries data reporting flows,
with first intention to help countries to validate, format and
send data to relevant organizations including regional
fisheries management organizations or bodies handling data
collection reference frameworks, and FAO.

URL <https://github.com/fdiwg/repfishr>,
<https://fdiwig.github.io/repfishr/>

BugReports <https://github.com/fdiwg/repfishr/issues>

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LazyLoad yes

Encoding UTF-8

RoxygenNote 7.3.3

Roxygen list(r6 = TRUE)

Config/pak/sysreqs

libabsl-dev cmake libgdal-dev gdal-bin libgeos-dev make libicu-dev libpng-dev libuv1-
dev libxml2-dev libssl-dev libproj-dev libsqlite3-dev libudunits2-dev libx11-dev zlib1g-dev

Repository <https://fdiwig.r-universe.dev>

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get_reporting_flow_actors	
<i>Get reporting flow actors</i>	

Description

Get reporting flow actors

Usage

get_reporting_flow_actors()

iccat_fill_report_dataset	
<i>Fills an ICCAT template workbook with a dataset</i>	

Description

Fills an ICCAT template workbook with a dataset

Usage

iccat_fill_report_dataset(wb, sheet, x, startRow, startCol)

Arguments

- | | |
|----------|---|
| wb | a Workbook object from openxlsx |
| sheet | a sheet index |
| x | an object of class data.frame |
| startRow | start row index |
| startCol | start column index |

Value

the modified Workbook object

iccat_fill_report_dataset_characteristics
<i>Fills an ICCAT template workbook with dataset characteristics information</i>

Description

Fills an ICCAT template workbook with dataset characteristics information

Usage

```
iccat_fill_report_dataset_characteristics(  
  wb, reporting_flag, from, to,  
  report_version, report_type, report_coverage, notes  
)
```

Arguments

wb	a Workbook object from openxlsx
reporting_flag	reporting flag
from	start year/date
to	end year/date
report_version	report version (Final, Preliminary)
report_type	report type
report_coverage	report coverage
notes	notes

Value

the modified Workbook object

```
iccat_fill_report_statistical_correspondent
```

Fills an ICCAT template workbook with statistical correspondent information

Description

Fills an ICCAT template workbook with statistical correspondent information

Usage

```
iccat_fill_report_statistical_correspondent(wb, metadata)
```

Arguments

wb	a Workbook object from openxlsx
metadata	a named list with business metadata

Value

the modified Workbook object

repfishr	<i>Fisheries data reporting flows</i>
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Description

R framework to facilitate fisheries data reporting flows, with first intention to help countries to validate, format and send data to relevant organizations including regional fisheries management organizations or bodies handling #' data collection reference frameworks, and FAO.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

See Also

Useful links:

- <https://github.com/fdiwg/repfishr>
- <https://fdiwig.github.io/repfishr/>
- Report bugs at <https://github.com/fdiwg/repfishr/issues>

reporting_actor	<i>reporting_actor</i>
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Description

reporting_actor

reporting_actor

Format[R6Class](#)**Value**Object of class [R6Class](#) for modelling a reporting actor**Public fields**

id id

name name,

type type

Methods**Public methods:**

- [reporting_actor\\$new\(\)](#)
- [reporting_actor\\$clone\(\)](#)

Method `new()`: Initializes a reporting sender*Usage:*`reporting_actor$new(id, name = NULL, type = NULL)`*Arguments:*

id id

name name

type type

Method `clone()`: The objects of this class are cloneable with this method.*Usage:*`reporting_actor$clone(deep = FALSE)`*Arguments:*

deep Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

reporting_flow	<i>reporting_flow</i>
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Description

reporting_flow

reporting_flow

Format[R6Class](#)**Value**Object of class [R6Class](#) for modelling a reporting flow**Public fields**sender sender object of class [reporting_sender](#)**Methods****Public methods:**

- [reporting_flow\\$new\(\)](#)
- [reporting_flow\\$getSender\(\)](#)
- [reporting_flow\\$getReceivers\(\)](#)
- [reporting_flow\\$getReceiverIds\(\)](#)
- [reporting_flow\\$getReceiver\(\)](#)
- [reporting_flow\\$clone\(\)](#)

Method [new\(\)](#): Initializes a reporting flow*Usage:*[reporting_flow\\$new](#)(sender, sender_type)*Arguments:*

sender sender id

sender_type type of sender

Method [getSender\(\)](#): Get sender*Usage:*[reporting_flow\\$getSender\(\)](#)*Returns:* an object of class [reporting_sender](#)**Method** [getReceivers\(\)](#): Get list of valid receivers for the selected sender*Usage:*

```
reporting_flow$getReceivers(raw = FALSE)
```

Arguments:

raw raw

Returns: an object of class [data.frame](#) or a list of [reporting_receiver](#)

Method `getReceiverIds()`: Get list of valid receivers IDs

Usage:

```
reporting_flow$getReceiverIds()
```

Method `getReceiver()`: Get a receiver by its id

Usage:

```
reporting_flow$getReceiver(id)
```

Arguments:

id id

Returns: an object of class [reporting_receiver](#)

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

Usage:

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

Arguments:

deep Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

reporting_format

reporting_format

Description

reporting_format

reporting_format

Format

[R6Class](#)

Value

Object of class [R6Class](#) for modelling a reporting format

Public fields

id id
 name name
 ref ref format specification link
 spec format specification object of class [format_spec](#)

Methods**Public methods:**

- [reporting_format\\$new\(\)](#)
- [reporting_format\\$clone\(\)](#)

Method `new()`: Initializes a reporting task

Usage:

`reporting_format$new(id, name, ref)`

Arguments:

id id
 name name
 ref ref

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

Usage:

`reporting_format$clone(deep = FALSE)`

Arguments:

deep Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondell@gmail.com>

reporting_receiver	<i>reporting_receiver</i>
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Description

reporting_receiver
 reporting_receiver

Format

[R6Class](#)

Value

Object of class [R6Class](#) for modelling a reporting receiver

Super class

```
repfishr::reporting_actor -> reporting_receiver
```

Public fields

sender sender

tasks tasks

Methods**Public methods:**

- [reporting_receiver\\$new\(\)](#)
- [reporting_receiver\\$setSender\(\)](#)
- [reporting_receiver\\$getTasks\(\)](#)
- [reporting_receiver\\$getTaskDefinitions\(\)](#)
- [reporting_receiver\\$getTaskDefinitionById\(\)](#)
- [reporting_receiver\\$clone\(\)](#)

Method [new\(\)](#): Initializes a reporting receiver

Usage:

```
reporting_receiver$new(id, name = NULL, type = NULL)
```

Arguments:

id id

name name

type type

Method [setSender\(\)](#): Set sender

Usage:

```
reporting_receiver$setSender(sender)
```

Arguments:

sender sender object of class [reporting_sender](#)

Method [getTasks\(\)](#): Get task IDs

Usage:

```
reporting_receiver$getTasks()
```

Returns: the list of task IDs

Method [getTaskDefinitions\(\)](#): Get tasks

Usage:

```
reporting_receiver$getTaskDefinitions(raw = FALSE)
```

Arguments:

raw raw

Returns: a list of [reporting_task](#)

Method `getTaskDefinitionById()`: Get task definition by ID

Usage:

`reporting_receiver$getTaskDefinitionById(id)`

Arguments:

id id

Returns: an object of class [reporting_task](#)

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

Usage:

`reporting_receiver$clone(deep = FALSE)`

Arguments:

deep Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

reporting_sender

reporting_sender

Description

reporting_sender

reporting_sender

Format

[R6Class](#)

Value

Object of class [R6Class](#) for modelling a reporting sender

Super class

[repfishr::reporting_actor](#) -> reporting_sender

Methods

Public methods:

- `reporting_sender$new()`
- `reporting_sender$clone()`

Method `new()`: Initializes a reporting sender

Usage:

```
reporting_sender$new(id, name = NULL, type = NULL)
```

Arguments:

`id` `id`

`name` `name`

`type` `type`

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

Usage:

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

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

reporting_task

reporting_task

Description

reporting_task

reporting_task

Format

`R6Class`

Value

Object of class `R6Class` for modelling a reporting task

Public fields

sender sender
receiver receiver
id id
name name
context context
measurement measurement
formats formats
process_fun process handler (function)
report_fun report handler (function)
report_data data to report
report_metadata metadata to report

Methods**Public methods:**

- [reporting_task\\$new\(\)](#)
- [reporting_task\\$setSender\(\)](#)
- [reporting_task\\$process\(\)](#)
- [reporting_task\\$report\(\)](#)
- [reporting_task\\$clone\(\)](#)

Method `new()`: Initializes a reporting task

Usage:

`reporting_task$new(receiver = NULL, file = NULL, task = NULL)`

Arguments:

receiver receiver
file file
task task (as list object)

Method `setSender()`: Set sender

Usage:

`reporting_task$setSender(sender)`

Arguments:

sender sender object of class [reporting_sender](#)

Method `process()`: Process data before reporting

Usage:

```
reporting_task$process(  
  data,  
  metadata,  
  params = list(),  
  path,  
  parallel = FALSE,  
  ...  
)
```

Arguments:

data object of class [data.frame](#)

metadata metadata object

params additional parameters. Optional. Default is an empty list

path path for the output file

parallel whether data validation should be run in parallel

... any other arguments to be passed to **vrule** validation method

Method report(): Reports data

Usage:

```
reporting_task$report(  
  data,  
  metadata,  
  params = list(),  
  path,  
  parallel = FALSE,  
  ...  
)
```

Arguments:

data object of class [data.frame](#)

metadata metadata object

params additional parameters. Optional. Default is an empty list

path path for the output file

parallel whether data validation should be run in parallel

... any other arguments to be passed to **vrule** validation method

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

Usage:

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

Arguments:

deep Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

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