

Package ‘ipanema’

May 8, 2026

Type Package

Title Read Data from 'LimeSurvey'

Version 1.2.0

Description Read data from 'LimeSurvey'
(<https://www.limesurvey.org/>)
in a comfortable way.
Heavily inspired by 'limer'
(<https://github.com/cloudyr/limer/>),
which lacked a few comfort features for me.

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URL <https://gitlab.com/REDS1736/ipanema>

Encoding UTF-8

Imports base64enc, DBI, dplyr, httr, jsonlite, magrittr, RMySQL

RoxygenNote 7.3.2

Depends R (>= 2.10)

NeedsCompilation no

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base64_to_df *base64_to_df*

Description

Convert a base64 representation of a CSV table into a ‘data.frame’ object.

Usage

```
base64_to_df(x)
```

Arguments

x The base64-encoded CSV string

Value

A ‘data.frame’ object containing the data from ‘x’.

connect_to_limesurvey *connect_to_limesurvey*

Description

Connect to ‘LimeSurvey’ instance via the RPC and a direct MySQL connection. Store the RPC session key in ‘options(‘limesurvey_session_key’)’. Store the MySQL connection object in ‘options(‘limesurvey_mysql_connection’)’. Store the RPC URL in ‘options(‘limesurvey_api_url’)’.

Usage

```
connect_to_limesurvey(  
  api_url,  
  limesurvey_username,  
  limesurvey_password,  
  mysql_host,  
  mysql_port,  
  mysql_dbname,  
  mysql_table_prefix,  
  mysql_username,  
  mysql_password  
)
```

Arguments

api_url URL to the 'LimeSurvey' RPC, e.g. 'http://localhost/index.php/admin/remotecomtrol'
 limesurvey_username Username for the 'LimeSurvey' API
 limesurvey_password Password for the 'LimeSurvey' API
 mysql_host Hostname of the MySQL server used by 'LimeSurvey'
 mysql_port Port on which the MySQL server listens for connections
 mysql_dbname Name of the database on the MySQL server which is used by 'LimeSurvey'
 mysql_table_prefix Prefix for all table names, e.g. "lime_"
 mysql_username Username for the MySQL server
 mysql_password Password for the MySQL server

Value

No return value, called for side effects

Examples

```

# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server
## Not run:
connect_to_limesurvey(
  api_url = 'https://localhost/index.php/admin/remotecomtrol',
  limesurvey_username = 'admin',
  limesurvey_password = '1234admin',
  mysql_host = '127.0.0.1',
  mysql_port = 3306,
  mysql_dbname = 'limesurvey',
  mysql_table_prefix = '',
  mysql_username = 'lime',
  mysql_password = '1234lime'
)

## End(Not run)

```

fix_column_data_types *fix_column_data_types*

Description

Freshly exported data has all item-data columns as type "character". This function converts these columns to ideal types (e.g. integer). Currently simply converts all multiple-choice columns to integer. Future task: Add conversion to other data types as needed.

Usage

```
fix_column_data_types(df_in)
```

Arguments

`df_in` The 'data.frame' object to fix.

Value

A 'data.frame' object containing the data from 'df_in' but with fixed column data types.

```
get_answer_options     get_answer_options
```

Description

Get the answer options to a question with pre-defined answer options (e.g. a multiple choice question).

Usage

```
get_answer_options(question_code)
```

Arguments

`question_code` Code by which to identify the question. Follows a dot-based naming scheme: <group title>.<subquestion title>.

Value

'data.frame' object with the columns 'code' and 'answer' in which each row represents one answer option where 'code' is the encoded value (as found in datasets exported by 'get_survey_data()') and 'answer' is the answer option text as seen by survey users).

Examples

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the ID 123456.
# In this survey, a multiple-choice question identified by the code "bdi.01"
# is used.
# For this question, this example retrieves the possible answer options.
## Not run:
connect_to_limesurvey(
  api_url = 'https://localhost/index.php/admin/remotecontrol',
  limesurvey_username = 'admin',
  limesurvey_password = '1234admin',
  mysql_host = '127.0.0.1',
  mysql_port = 3306,
```

```
mysql_dbname = 'limesurvey',
mysql_table_prefix = '',
mysql_username = 'lime',
mysql_password = '1234lime'
)

answer_options <- get_answer_options("bdi.01")

## End(Not run)
```

get_question_text *get_question_text*

Description

Get the question text (e.g. "How have you been feeling?") to a question in the dataset.

Usage

```
get_question_text(question_code)
```

Arguments

question_code Code by which to identify the question. Follows a dot-based naming scheme:
<group title>.<subquestion title>.

Value

‘character’ object containing the question text

Examples

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the ID 123456.
# In this survey, a multiple-choice question identified by the code "bdi.01"
# is used.
# For this question, this example retrieves the question text which was shown
# to the user when answering the questionnaire.
## Not run:
connect_to_limesurvey(
  api_url = 'https://localhost/index.php/admin/remotecomtrol',
  limesurvey_username = 'admin',
  limesurvey_password = '1234admin',
  mysql_host = '127.0.0.1',
  mysql_port = 3306,
  mysql_dbname = 'limesurvey',
  mysql_table_prefix = '',
  mysql_username = 'lime',
```

```

    mysql_password = '1234lime'
  )

  q_text <- get_question_text("bdi.01")

  ## End(Not run)

```

<code>get_sql_varname</code>	<i>get_sql_varname</i>
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Description

Get the internal SQL field name (e.g. "697929X4X21") to a question from a specific survey in the dataset.

Usage

```
get_sql_varname(question_code, survey_id)
```

Arguments

`question_code` Code by which to identify the question. Follows a dot-based naming scheme: <group title>.<subquestion title>.

`survey_id` Survey-ID of the survey from which to select the question.

Value

‘character’ object containing the field name

Examples

```

# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the ID 123456.
# In this survey, a multiple-choice question identified by the code "bdi.01"
# is used.
# For this question, this example retrieves name of the SQL table field in
# which `LimeSurvey` internally stores the responses to this question.
## Not run:
connect_to_limesurvey(
  api_url = 'https://localhost/index.php/admin/remotecontrol',
  limesurvey_username = 'admin',
  limesurvey_password = '1234admin',
  mysql_host = '127.0.0.1',
  mysql_port = 3306,
  mysql_dbname = 'limesurvey',
  mysql_table_prefix = '',
  mysql_username = 'lime',

```

```
    mysql_password = '1234lime'  
  )  
  
  q_varname <- get_sql_varname("bdi.01", 123456)  
  
  ## End(Not run)
```

get_survey_data

get_survey_data

Description

Get collected data from a specific survey on the connected 'LimeSurvey' instance. Includes complete and incomplete cases! Returns 'NULL' if no data has been collected in this survey.

Usage

```
get_survey_data(survey_id, completion_status = "all")
```

Arguments

survey_id ID of the survey from which the collected data shall be extracted. 6-digit integer.
completion_status 'complete' = Return only complete cases; 'incomplete' = Return only incomplete cases; 'all' = Return both.

Value

A 'data.frame' object containing the survey data. Column names follow a dot-based naming scheme: <group title>.<subquestion title>. 'NULL' if no data has been collected.

Examples

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally  
# hosted MySQL server.  
# On this `LimeSurvey` instance, there is a survey with the ID 123456.  
## Not run:  
connect_to_limesurvey(  
  api_url = 'https://localhost/index.php/admin/remotecontrol',  
  limesurvey_username = 'admin',  
  limesurvey_password = '1234admin',  
  mysql_host = '127.0.0.1',  
  mysql_port = 3306,  
  mysql_dbname = 'limesurvey',  
  mysql_table_prefix = '',  
  mysql_username = 'lime',  
  mysql_password = '1234lime'  
)
```

```
df_data <- get_survey_data(123456)

## End(Not run)
```

get_survey_id	<i>get_survey_id</i>
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Description

Get numerical LimeSurvey ID of the survey with the given title.

Usage

```
get_survey_id(survey_title)
```

Arguments

survey_title Title of the survey. String.

Value

An integer Survey ID which can be used as a parameter in 'get_survey_data()'

Examples

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the title 'mysurvey'.
## Not run:
connect_to_limesurvey(
  api_url = 'https://localhost/index.php/admin/remotecontrol',
  limesurvey_username = 'admin',
  limesurvey_password = '1234admin',
  mysql_host = '127.0.0.1',
  mysql_port = 3306,
  mysql_dbname = 'limesurvey',
  mysql_table_prefix = '',
  mysql_username = 'lime',
  mysql_password = '1234lime'
)

survey_id <- get_survey_id('mysurvey')
df_data <- get_survey_data(survey_id)

## End(Not run)
```

`limesurvey_api_call` *limesurvey_api_call*

Description

Perform a call to the 'LimeSurvey' RPC API.

Usage

```
limesurvey_api_call(method, params = list(), ...)
```

Arguments

<code>method</code>	Name of the API method to call. A complete list of methods can be found here: https://api.limesurvey.org/classes/remotecontrol_handle.html
<code>params</code>	Parameters to pass to the API
<code>...</code>	Additional parameters passed from above

Value

A list containing the de-serialized response.

`wipe_survey_data` *wipe_survey_data*

Description

Delete all data collected by this survey.

Usage

```
wipe_survey_data(survey_id)
```

Arguments

<code>survey_id</code>	ID of the survey from which the collected data shall be deleted. 6-digit integer.
------------------------	---

Value

Nothing. Function is called for side effects on SQL table.

Examples

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the ID 123456.
## Not run:
connect_to_limesurvey(
  api_url = 'https://localhost/index.php/admin/remotecontrol',
  limesurvey_username = 'admin',
  limesurvey_password = '1234admin',
  mysql_host = '127.0.0.1',
  mysql_port = 3306,
  mysql_dbname = 'limesurvey',
  mysql_table_prefix = '',
  mysql_username = 'lime',
  mysql_password = '1234lime'
)

wipe_survey_data(123456)

## End(Not run)
```

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