

Package ‘configulaR’

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Title Manage Application Settings via '.env' or '.ini' Files

Version 0.1.1

Description Provides a simple way to manage application settings by loading configuration values from '.env' or '.ini' files. It supports default values, type casting, and environment variable overrides, enabling a clean separation of configuration from code. Ideal for managing credentials, API keys, and deployment-specific settings.

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URL <https://dataupsurge.github.io/configulaR/>,
<https://github.com/dataupsurge/configulaR>

BugReports <https://github.com/dataupsurge/configulaR/issues>

Imports assertthat, here, magrittr, stringr

Suggests covr (>= 3.6.4), docopt (>= 0.7.1), git2r (>= 0.35.0), lintr (>= 3.1.2), precommit (>= 0.4.3), roxygen2 (>= 7.3.2), styler (>= 1.10.3), testthat (>= 3.0.0), withr (>= 2.1.2)

Encoding UTF-8

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cast_as	<i>Helper function to cast data from keyword of function</i>
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Description

Helper function to cast data from keyword of function

Usage

```
cast_as(variable, cast)
```

Arguments

variable	String to be casted
cast	Casting function or keyword

Value

casted variable

find_config_files	<i>Config file search</i>
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Description

Config file search

Usage

```
find_config_files(path)
```

Arguments

path	The directory from which the config file search is initialized. Look in current and root directories until finding a config file reaching the primary root.
------	---

Value

the full path of the config file found. If no config file are found, it returns a 'NULL'.

get_config	<i>Search for config files and return variable / value pairs as a list.</i>
------------	---

Description

configulaR currently supports only .env files. 'get_config' will search if the specified directory and its parent a '.env' file. If no file is found, an empty list is returned.

Usage

```
get_config(path = NULL)
```

Arguments

path	a path from where a config is searched for. Parent directories will be evaluated if no config file is found is the specified directory. If NULL, the current directory will be taken as default.
------	--

Details

Env file:

Simply create a .env text file on your repository's root directory in the form:

```
DEBUG=True
TEMPLATE_DEBUG=True
SECRET_KEY=ARANDOMSECRETKEY
DATABASE_URL=mysql://myuser:mypassword@myhost/mydatabase
PERCENTILE=90
#COMMENTED=42
```

Value

a list with variables / values from config file. If no config file has been found, an empty list is returned.

Examples

```
config <- get_config()
config
```

```
get_config_filename_from_dir
```

Return config file path found in a directory

Description

Return config file path found in a directory

Usage

```
get_config_filename_from_dir(path)
```

Arguments

path The directory were config files are looking for.

Value

the full path of the config file found. If no config file are found, it returns a 'NULL'.

```
get_var
```

Retrive the value of the variable

Description

Get a variable from, in order of priority, environment variable, .env or settings.ini, or default values. Data type can be cast to boolean or integer.

Usage

```
get_var(
    config = NULL,
    var_name = NULL,
    path = NULL,
    default = structure("UNDEFINED_", class = "UNDEFINED_"),
    cast = NULL
)
```

Arguments

config an object returned by the `init_config` function. If NULL, the config will be evaluated from the `path` argument.

var_name the variable of interest

path the path from where config files are searched for. If NULL, the current directory will be considered as default.

default	a default value
cast	Either a function or a type of cast. Currently implemented options are ‘integer’, ‘boolean’ or ‘float’.

Value

The value associated to the config variable. The type depends on the cast argument. Default is string.

Examples

```
config <- get_config()
get_var(config, "test", default = "yes", cast = "bool")
```

is_undefined	<i>Test if object if of class _UNDEFINED</i>
--------------	--

Description

Test if object if of class _UNDEFINED

Usage

```
is_undefined(x)
```

Arguments

x an object.

Value

a boolean

load_dot_env	<i>Load environment variables from the specified file</i>
--------------	---

Description

The file is parsed, and line is expected to have one of the following formats:

```
VARIABLE=value
VARIABLE2="quoted value"
VARIABLE3='another quoted variable'
# Comment line
export EXPORTED="exported variable"
export EXPORTED2=another
```

Usage

```
load_dot_env(fpath = ".env")
```

Arguments

fpath The path to the ‘.env’ config file

Details

Load variables defined in the given file, as environment variables.

Detailed specification:

- A leading `export` is ignored, to keep the file compatible with Unix shells.
- No whitespace is allowed right before or after the equal sign, again, to promote compatibility with Unix shells.
- No multi-line variables are supported currently. The file is strictly parsed line by line.
- Unlike for Unix shells, unquoted values are *not* terminated by whitespace.
- Comments start with `#`, without any leading whitespace. You cannot mix variable definitions and comments in the same line.
- Empty lines (containing whitespace only) are ignored.

It is suggested to keep the file in a form that is parsed the same way with `dotenv` and `bash` (or other shells).

Value

A named list of environment variables, where names are the variable names and values are the variable values

Examples

```
# Load from a file
tmp <- tempfile()

cat("dotenvexamplefoo=bar\n", file = tmp)
load_dot_env(tmp)

# Clean up
unlink(tmp)
```

parse_dot_line	<i>Parse environment variables from lines in a .env file</i>
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Description

Parse environment variables from lines in a .env file

Usage

```
parse_dot_line(lines)
```

Arguments

lines Character vector containing lines from a .env file

Value

A named list where names are environment variable names and values are their corresponding values

random_string	<i>Generate a random string of specified length</i>
---------------	---

Description

Generate a random string of specified length

Usage

```
random_string(string_length = 6, replace = TRUE)
```

Arguments

string_length Integer, length of the string to generate.
replace Boolean, Use replace in the sampling procedure.

Value

A random string.

remove_comments	<i>Parse config file and remove comment lines</i>
-----------------	---

Description

Parse config file and remove comment lines

Usage

```
remove_comments(lines)
```

Arguments

lines	A list of config file lines.
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Value

A list of config file lines where comment lines have been filtered out.

remove_empty_lines	<i>Parse config file and remove empty lines</i>
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Description

Parse config file and remove empty lines

Usage

```
remove_empty_lines(lines)
```

Arguments

lines	A list of config file lines.
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Value

A list of config file lines where empty lines have been filtered out.

to_logical	<i>Convert categorical representations of true/false values to a logical</i>
------------	--

Description

Allow the conversion of logical related data to actual Boolean

Usage

```
to_logical(x)
```

Arguments

x a vector of boolean compatible values.

Value

a vector of boolean

Examples

```
to_logical(c("yes", "no"))
```

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