

Package: formbuildr (via r-universe)

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Title Form builder

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Version 0.0.0.9000

Description Build forms with the command line interface.

Depends R (>= 3.2)

License GPL-3

Imports cli, crayon, glue, yaml

Suggests knitr, testthat, rmarkdown

URL <https://github.com/inSileco/formbuildr>,
<http://insileco.github.io/formbuildr>

BugReports <https://github.com/inSileco/formbuildr/issues>

Encoding UTF-8

VignetteBuilder knitr

RoxygenNote 7.1.1

Roxygen list(markdown = TRUE)

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

RemoteUrl <https://github.com/inSileco/formbuildr>

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export_answer	<i>Export answers.</i>
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Description

Export answers.

Usage

```
export_answer(x, file, format = "yaml")
```

Arguments

x	object of class form_answers.
file	file name.
format	So far only YAML is available.

fob_among	<i>A binary question to be answered by Yes or No.</i>
-----------	---

Description

A binary question to be answered by Yes or No.

Usage

```
fob_among(question, choices, field_name = "", output = "choice", ...)
fob_month(question, field_name = "", output = c("choice", "id"), ...)
fob_weekday(question, field_name = "", output = c("choice", "id"), ...)
```

Arguments

question	The question to be asked.
choices	A vector of choices.
field_name	Name of the field (optional).
output	Either "choice" or "id".
...	further arguments to be passed to generate_form_choices() .

Value

Return the choice selected either as the choice value or its identifier (an integer).

Functions

- fob_month: One month.
- fob_weekday: One weekday.

fob_any	<i>Generate any kind of question.</i>
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Description

Generate any kind of question.

Usage

```
fob_any(type, ...)
```

Arguments

type	Type of answer expected.
...	Further arguments passed to the question function.

fob_int	<i>Generate one question.</i>
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Description

Generate one question.

Usage

```
fob_int(question, field_name = "", prompt = NULL)
fob_num(question, field_name = "", prompt = NULL)
fob_date(question, field_name = "", format = "%Y-%m-%d", prompt = NULL, ...)
fob_char(question, field_name = "", prompt = NULL)
fob_yorn(question, field_name = "", prompt = "Enter [Y]es or [N]o:", ...)
fob_bool(question, field_name = "", prompt = "Enter [T]RUE or [F]ALSE:", ...)
```

Arguments

question	The question to be asked.
field_name	Name of the field (optional).
prompt	The string printed when prompting the user for input (see readline()).
format	Date format.
...	Further arguments to be passed to generate_form_pattern() .

Value

one integer.

Functions

- fob_num: one numeric.
- fob_date: one date.
- fob_char: a character.
- fob_yorn: TRUE for yes and FALSE for no.
- fob_bool: one boolean/logical (i.e. TRUE or FALSE).

fob_output

Add an output.

Description

Add an output.

Usage

```
fob_output(FUN, field_name = NULL)
```

Arguments

FUN	a function a character string that will be displayed.
field_name	Field name.

Value

An object of class output.

fob_pattern	<i>A binary question to be answered by Yes or No.</i>
-------------	---

Description

A binary question to be answered by Yes or No.

Usage

```
fob_pattern(
    question,
    pattern,
    field_name = "",
    prompt = "Enter your answer:",
    ...
)
```

Arguments

question	The question to be asked.
pattern	Pattern to be matched.
field_name	Name of the field (optional).
prompt	The string printed when prompting the user for input (see readline()).
...	Further arguments passed to generate_form_pattern() .

Value

answer validated.

fob_section	<i>Add a section.</i>
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Description

Add a section.

Usage

```
fob_section(msg)
```

Arguments

msg	a character string that will be displayed.
-----	--

Value

A section object.

fob_word	<i>A binary question to be answered by Yes or No.</i>
----------	---

Description

A binary question to be answered by Yes or No.

Usage

```
fob_word(question, field_name = "", prompt = NULL, ...)
```

```
fob_text(question, field_name = "", max = NULL, prompt = NULL, ...)
```

```
fob_email(question, field_name = "", prompt = NULL, ...)
```

Arguments

question	The question to be asked.
field_name	Name of the field (optional).
prompt	the string printed when prompting the user for input (see readline()).
...	further arguments to be passed to generate_form_pattern() .
max	maximum of characters (ignored if NULL).

Value

a word.

Functions

- fob_text: a character string.
- fob_email: a character string.

form_from_file	<i>Create a form from a connection.</i>
----------------	---

Description

Create a form from a connection.

Usage

```
form_from_file(con)
```

Arguments

con a connection object or a character string (see [readLines\(\)](#)).

Details

This function reas

- q: question
- t: type
- p: prompt message (optional)
- f: field name (optional)
- #' a section

generate_form

Generate form partials

Description

Functions that generate object of class form_partials.

Usage

```
generate_form(  
  prompt = "",  
  question = NULL,  
  choices = NULL,  
  validate = NULL,  
  confirm = FALSE,  
  pre = NULL,  
  post = NULL,  
  field_name = "",  
  extra_space = " "  
)  
  
generate_form_pattern(  
  prompt = "",  
  question = NULL,  
  choices = NULL,  
  pattern = "*"  
  confirm = FALSE,  
  pre = NULL,  
  post = NULL,  
  field_name = ""  
)  
  
generate_form_choices(  
  prompt = "",  
  question = NULL,  
  choices = NULL,  
  validate = NULL,  
  confirm = FALSE,  
  pre = NULL,  
  post = NULL,  
  field_name = ""  
)
```

```

prompt = "",
question = NULL,
choices,
confirm = FALSE,
pre = NULL,
post = NULL,
field_name = ""
)

```

Arguments

prompt	The string printed when prompting the user for input (see readline()).
question	The question to be asked.
choices	A vector of choices.
validate	A function used to validate the answer (see details), if NULL then validation step is ignored.
confirm	a logical. Should the answer be confirmed (default is FALSE).
pre	A function for pre-processing.
post	A function for post-processing.
field_name	Field name (optional) that will be used in the list of answer.
extra_space	extra space in prompt line.
pattern	pattern to be matched (see grepl()).

Details

The object of class `form_partial` returned is a function with one argument (`x`) that triggers the following actions once called:

1. displays a question to be asked (`question`);
2. prompts a message (`prompt`) that is used to specify the nature of the input;
3. if `confirm = TRUE` then a confirmation messages will be prompted;
4. (optional) calls the function `pre` that transforms the input;
5. validates the input (`validate`), i.e. returns TRUE if the input (that may have been transformed) is valid;
6. (optional) applies a function (`post`) to the validated input that thereby becomes output

The argument `x` of a `form_partial` is set to NULL, it can however be set to a different value. In such case, once the object is called, the interactive steps (the first three steps aforementioned) are skipped and the input goes through the 3 last steps. If the input is not validated then NA will be returned.

Value

A object of class `form_partial`.

Functions

- generate_form_pattern: match pattern.
- generate_form_choices: list fo choices.

join	<i>objects of class form_partial or form</i>
------	--

Description

objects of class form_partial or form

Usage

```
join(...)
```

```
x %+% y
```

Arguments

...	object(s) of class form_partial, form, section or output.
x, y	objects of class form_partial, form, section or output.

Value

A form.

Functions

- %%+: join operator.

multi	<i>Repeat a form.</i>
-------	-----------------------

Description

Fill out the same form by multiple participants.

Usage

```
multi(x, n = 1, names = NULL)
```

Arguments

x	a object of class form.
n	number of participants.
names	participants names.

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