Package 'chatgpt'

May 6, 2023

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chatgpt-package

'OpenAI's 'ChatGPT' https://chat.openai.com/ coding assistant for 'RStudio'. A set of functions and 'RStudio' addins that aim to help the R developer in tedious coding tasks.

Description

'OpenAI's 'ChatGPT' https://chat.openai.com/ coding assistant for 'RStudio'. A set of functions and 'RStudio' addins that aim to help the R developer in tedious coding tasks.

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See Also

Useful links:

- https://github.com/jcrodriguez1989/chatgpt
- Report bugs at https://github.com/jcrodriguez1989/chatgpt/issues

 $ask_chatgpt$

Ask ChatGPT

Description

Note: See also 'reset_chat_session'.

Usage

ask_chatgpt(question)

Arguments

question

The question to ask ChatGPT.

Value

A character value with the response generated by ChatGPT.

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Examples

```
## Not run:
cat(ask_chatgpt("What do you think about R language?"))
## End(Not run)
```

comment_code

ChatGPT: Comment Code

Description

ChatGPT: Comment Code

Usage

```
comment_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code

The code to be commented by ChatGPT. If not provided, it will use what's copied on the clipboard.

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(comment_code("for (i in 1:10) {\n print(i ** 2)\n}"))
## End(Not run)
```

complete_code

ChatGPT: Complete Code

Description

ChatGPT: Complete Code

Usage

```
complete_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

create_unit_tests

Arguments

code

The code to be completed by ChatGPT. If not provided, it will use what's copied on the clipboard.

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(complete_code("# A function to square each element of a vector\nsquare_each <- function("))
## End(Not run)</pre>
```

create_unit_tests

ChatGPT: Create Unit Tests

Description

Create 'testthat' test cases for the code.

Usage

```
create_unit_tests(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code

The code for which to create unit tests by ChatGPT. If not provided, it will use what's copied on the clipboard.

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(create_unit_tests("squared_numbers <- function(numbers) {\n numbers ^ 2\n}"))
## End(Not run)</pre>
```

create_variable_name 5

create_variable_name

ChatGPT: Create Variable Name

Description

ChatGPT: Create Variable Name

Usage

```
create_variable_name(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code

The code for which to give a variable name to its result. If not provided, it will use what's copied on the clipboard.

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(create_variable_name("sapply(1:10, function(i) i ** 2)"))
## End(Not run)
```

document_code

ChatGPT: Document Code (in roxygen2 format)

Description

ChatGPT: Document Code (in roxygen2 format)

Usage

```
document_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code

The code to be documented by ChatGPT. If not provided, it will use what's copied on the clipboard.

Value

A character value with the response generated by ChatGPT.

find_issues_in_code

Examples

```
## Not run:
cat(document_code("square_numbers <- function(numbers) numbers ** 2"))
## End(Not run)</pre>
```

explain_code

ChatGPT: Explain Code

Description

ChatGPT: Explain Code

Usage

```
explain_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code

The code to be explained by ChatGPT. If not provided, it will use what's copied on the clipboard.

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(explain_code("for (i in 1:10) {\n print(i ** 2)\n}"))
## End(Not run)
```

find_issues_in_code

ChatGPT: Find Issues in Code

Description

ChatGPT: Find Issues in Code

Usage

```
find_issues_in_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

gpt_get_completions 7

Arguments

code

The code to be analyzed by ChatGPT. If not provided, it will use what's copied on the clipboard.

Value

A character value with the response generated by ChatGPT.

Examples

gpt_get_completions

Get GPT Completions Endpoint

Description

Get GPT Completions Endpoint

Usage

```
gpt_get_completions(
  prompt,
  openai_api_key = Sys.getenv("OPENAI_API_KEY"),
  messages = NULL
)
```

Arguments

```
prompt The prompt to generate completions for.

openai_api_key OpenAI's API key.

messages Available variable, to send the needed messages list to ChatGPT.
```

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optimize_code

ChatGPT: Optimize Code

Description

```
ChatGPT: Optimize Code
```

Usage

```
optimize_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code

The code to be optimized by ChatGPT. If not provided, it will use what's copied on the clipboard.

Value

A character value with the response generated by ChatGPT.

Examples

parse_response

Parse OpenAI API Response

Description

Takes the raw response from the OpenAI API and extracts the text content from it.

Usage

```
parse_response(raw_responses)
```

Arguments

```
raw_responses The raw response object returned by the OpenAI API.
```

Value

Returns a character vector containing the text content of the response.

refactor_code 9

refactor_code

ChatGPT: Refactor Code

Description

ChatGPT: Refactor Code

Usage

```
refactor_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code

The code to be refactored by ChatGPT. If not provided, it will use what's copied on the clipboard.

Value

A character value with the response generated by ChatGPT.

Examples

reset_chat_session

Reset Chat Session

Description

This function is intended to be used with 'ask_chatgpt'. If we are using 'ask_chatgpt' to chat with ChatGPT, and we want to start a new conversation, we must call 'reset_chat_session'.

Usage

```
reset_chat_session(system_role = "You are a helpful assistant.")
```

Arguments

system_role ChatGPT's role as an AI assistant.

run_addin

Run a ChatGPT RStudio Addin

Description

Run a ChatGPT RStudio Addin

Usage

```
run_addin(addin_name)
```

Arguments

addin_name

The name of the adding to execute.

Description

Opens an interactive chat session with ChatGPT

Usage

```
run_addin_ask_chatgpt()
```

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