

# Package ‘shinyNotes’

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**Title** Shiny Module for Taking Free-Form Notes

**Version** 0.0.2

**Description** An enterprise-targeted scalable and customizable 'shiny' module providing an easy way to incorporate free-form note taking or discussion boards into applications. The package includes a 'shiny' module that can be included in any 'shiny' application to create a panel containing searchable, editable text broken down by section headers. Can be used with a local 'SQLite' database, or a compatible remote database of choice.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**Imports** shinyjs, shiny, shinyWidgets, dplyr, DBI, dbplyr, RSQLite, magrittr, stringr, markdown, rlang, utils

**RoxygenNote** 7.2.0

**URL** <https://github.com/danielkovtun/shinyNotes>

**BugReports** <https://github.com/danielkovtun/shinyNotes/issues>

**Suggests** testthat (>= 2.1.0), knitr, rmarkdown

**VignetteBuilder** knitr

**NeedsCompilation** no

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connect_sqlite	<i>Connect to an SQLite database</i>
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## Description

Wrapper function to return a [SQLiteConnection](#) object for local development.

## Usage

```
connect_sqlite(auto_disconnect = TRUE)
```

## Arguments

`auto_disconnect`  
Should the connection be automatically closed when the `src` is deleted? Set to `TRUE` if you initialize the connection the call to `src_dbi()`. Pass `NA` to auto-disconnect but print a message when this happens.

## Value

Returns an S4 object that inherits from `DBIConnection`. This object is used to communicate with the database engine. Under the hood, `dbConnect()` returns an object of class `SQLiteConnection`. See [dbConnect\(\)](#) for more details.

## Examples

```
connect_sqlite()
```

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create_schema	<i>Add schema to a SQLite database</i>
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**Description**

Wrapper function to create a new schema in a SQLite database for local development.

**Usage**

```
create_schema(schema, con)
```

**Arguments**

schema	Schema name
con	A <a href="#">SQLiteConnection-class</a> object, produced by <a href="#">dbConnect()</a> or <code>shinyNotes::connect_sqlite()</code>

**Value**

None. Executes SQL query and returns silently.

**Examples**

```
con <- connect_sqlite()
create_schema(con, schema = "demo")
```

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db.read_table	<i>Read remote database tables into data frames with additional validation</i>
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**Description**

Wrapper function to read table from default or custom schema, and return NA by default if an error is encountered.

**Usage**

```
db.read_table(con, table, schema = NA, collect = TRUE, error_value = NA)
```

**Arguments**

con	An object that inherits from <a href="#">DBIConnection-class</a> , typically generated by <a href="#">dbConnect()</a>
table	A character string specifying the DBMS table name.
schema	A character string specifying the schema in which the table is nested.
collect	A logical specifying whether the query results should be collected into memory or left as a lazy query.
error_value	Error value to return if <a href="#">dbReadTable()</a> fails. Default is NA.

**Value**

If the SQL query executes successfully, the return value will be an object of class `tibble`. If an error is encountered, the return value will be inherited from the `error_value` argument provided (default is NA).

**Examples**

```
con <- connect_sqlite(auto_disconnect = FALSE)
dplyr::copy_to(con, iris, "df", temporary = FALSE)
db.read_table(con = con, table = 'df')
```

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db.write_table	<i>Write data frames to remote database tables with additional validation</i>
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**Description**

Wrapper function to write data to table in default or custom schema. Returns TRUE if successful, FALSE otherwise.

**Usage**

```
db.write_table(
  con,
  data,
  table,
  schema = NA,
  append_only = FALSE,
  drop_overwrite = NA
)
```

**Arguments**

con	An object that inherits from <code>DBIConnection-class</code> , typically generated by <code>dbConnect()</code>
data	A <code>data.frame</code> , <code>tbl</code> , or other valid SQL data type containing the data to write to the database.
table	A character string specifying the DBMS table name.
schema	A character string specifying the schema in which the table is nested.
append_only	A logical specifying whether the operation is INSERT or UPDATE. Default of <code>append_only = FALSE</code> means execute DELETE on table, and update with new data.
drop_overwrite	A logical specifying whether the operation is DROP and INSERT. This will overwrite any existing field types.

**Value**

Returns TRUE if the SQL query executes successfully, FALSE otherwise.

**Examples**

```
connection <- connect_sqlite(auto_disconnect = FALSE)

db.write_table(con = connection, table = 'iris', data = iris)
```

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demo\_notes

*Demo notes for testing shinynote module.*

---

**Description**

A dataset containing package functions and their titles for the shiny, shinyWidgets and dplyr packages. Formatted in a structure compatible with the shinyNotes::shinyNotes module.

**Usage**

```
demo_notes
```

**Format**

A tibble with 274 rows and 3 variables:

**package** package title, character class

**category** function name, character class

**update** function title, character class ...

**Source**

[shiny help pages](#)

[shinyWidgets help pages](#)

[dplyr help pages](#)

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emojis

*Demo notes for testing shinynote module.*


---

### Description

A dataset containing package functions and their titles for the shiny, shinyWidgets and dplyr packages. Formatted in a structure compatible with the shinyNotes::shinynotes module.

### Usage

```
emojis
```

### Format

A named list of length 2 with elements of length 1510:

**name** emoji name, character class

**url** emoji image url, character class ...

### Source

[GitHub emojis API](#)

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markdown\_notes

*Demo notes formatted with markdown for testing shinynote module.*


---

### Description

A dataset containing examples of markdown syntax for including emojis, headers, and code blocks. Formatted in a structure compatible with the shinyNotes::shinynotes module.

### Usage

```
markdown_notes
```

### Format

A tibble with 3 rows and 3 variables:

**formatting** text format type, character class

**category** type of markdown formatter, character class

**update** text with markdown syntax, character class ...

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runExample	<i>Run shinyNotes examples</i>
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**Description**

Launch a rpredictit example Shiny app that shows how to easily use shinyNotes in a Shiny app.

Run without any arguments to see a list of available example apps.

**Usage**

```
runExample(example)
```

**Arguments**

example	The app to launch
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**Value**

None. Runs a demo Shiny application. This function normally does not return; interrupt R to stop the application.

**Examples**

```
## Only run this example in interactive R sessions
if (interactive()) {
  # List all available example apps
  runExample()

  runExample("demo")
}
```

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shinynotes	<i>Shiny notes module - server function</i>
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**Description**

Server function for the shinynotes module.

## Usage

```
shinynotes(  
  input,  
  output,  
  session,  
  group_column,  
  selected_group,  
  group_options,  
  table_id,  
  db_conn,  
  category_options = NA,  
  style_options = default_styles()  
)
```

## Arguments

input	Standard shiny input
output	Standard shiny output
session	Standard shiny session
group_column	Column in table to group and filter notes by.
selected_group	Currently selected group column value.
group_options	Group column row value options.
table_id	Named list with member 'table' and 'schema' referring to a database table containing notes.
db_conn	An object that inherits from <a href="#">DBIConnection-class</a> , typically generated by <a href="#">dbConnect()</a>
category_options	Category column row value options. Useful if table is empty. Default is NA (retrieved from data)
style_options	Optional named list of CSS styles to apply to note panel elements.

## Details

The `style_options` argument contains the following default values:

- type = "paragraph"
- header
  - color = "#4b2c71"
  - style = "font-weight: bold; text-decoration: underline;"
- panel
  - status = "default"
  - background = "#fdfeff"
  - scrollY = "scroll"
  - max\_height = "600px"



- height = "100"
- padding = "4px"
- width = "100"
- border\_width = "2px"
- border\_radius = "4px"
- border\_style = "solid"
- border\_color = "#f5f5f5"
- style = "text-align:left; margin-right:1px;"
- paragraph\_style = "margin: 0px 0px 1px;white-space: pre-wrap;"
- bullet\_style = "white-space: pre-wrap;"
- hr\_style = "margin-top:10px; margin-bottom:10px;"
- ignoreCase = TRUE

### Value

Module server component. Reactive expression containing the currently selected note data and database connection.

### Examples

```
if(interactive()){
  shiny::callModule(
    module = shinynotes,
    id = "paragraph",
    style_options = shiny::reactive({
      list(
        "type" = "bullets",
        "header" = list("color" = "#ccc"),
        "panel" = list("scrolly" = TRUE)
      )
    }),
    group_column = "package",
    selected_group = shiny::reactive("shiny"),
    group_options = c("shiny", "shinyWidgets", "dplyr"),
    table_id = list(table = "scroll_demo", schema = "notes"),
    db_conn = connect_sqlite(auto_disconnect = FALSE)
  )
}
```

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shinynotesUI

*Shiny notes module - UI function*


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### Description

UI function for the shinynotes module.

**Usage**

```
shinynotesUI(id)
```

**Arguments**

`id` An ID string that will be used to assign the module's namespace.

**Value**

Note module UI, containing note panel and control buttons. An HTML tag object that can be rendered as HTML using [as.character\(\)](#).

**Examples**

```
if(interactive()){  
  shinynotesUI(id = 'paragraph')  
}
```

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