

# Package ‘shidashi’

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**Type** Package

**Title** A Shiny Dashboard Template Modular System with Chat Bot Support

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**URL** <https://dipterix.org/shidashi/>,  
<https://github.com/dipterix/shidashi>

**BugReports** <https://github.com/dipterix/shidashi/issues>

**License** MIT + file LICENSE

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**Description** A template dashboard system with AI agent integrated.

Comes with default themes that can be customized.

Developers can upload modified templates on 'Github', and users can easily download templates with 'RStudio' project wizard.

The key features of the default template include light and dark theme switcher, resizing graphs, synchronizing inputs across sessions, new notification system, fancy progress bars, and card-like flip panels with back sides, as well as various of 'HTML' tool widgets.

**Imports** utils, tools, bslib, digest (>= 0.6.27), ellmer (>= 0.4.0), fastmap (>= 1.1.0), formatR (>= 1.11), httr2, S7, shiny (>= 1.7.0), shinychat, yaml, jsonlite

**Suggests** cli, coro, logger (>= 0.2.1), processx, promises, later, rstudioapi (>= 0.13), htmltools, httpuv, ggplot2, ggExtra, testthat (>= 3.0.0)

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---

accordion	<i>Generates an 'accordion' tab-set</i>
-----------	---

---

### Description

Generates an 'accordion' tab-set that only one tab is expanded at a time. This feature is experimental and has bugs in some situations. Please use it at your own risk.

### Usage

```
accordion(
  ...,
  id = rand_string(prefix = "accordion-"),
  class = NULL,
  style_header = NULL,
  style_body = NULL,
  env = parent.frame(),
  extras = list(),
  root_path = template_root()
)

accordion_operate(
  id,
  itemId,
  item_title,
  method = c("expand", "collapse", "toggle"),
  session = shiny::getDefaultReactiveDomain()
)
```

### Arguments

...	'accordion' items, generated by <a href="#">accordion_item</a>
id	the element id, must be unique
class	the additional 'HTML' class
style_header	additional 'CSS' styles for header
style_body	additional 'CSS' styles for content body
env	environment to evaluate ...
extras	key-value pairs that overrides the parameters in <a href="#">accordion_item</a>
root_path	see <a href="#">template_root</a>
itemId	<a href="#">accordion_item</a> id
item_title	<a href="#">accordion_item</a> title, if item id is specified, this title will be ignored
method	operation, choices are 'expand' (default), 'collapse', or 'toggle'
session	shiny session

**Value**

'shiny.tag.list' 'HTML' tags

**See Also**

[accordion\\_item](#)

**Examples**

```
if(interactive()) {  
  
  library(shiny)  
  library(shidashi)  
  
  accordion(  
    id = "input-set",  
    accordion_item(  
      title = "Input Group A",  
      textInput("input_1", "Input 1"),  
      collapsed = FALSE,  
      footer = "Anim pariatur cliche reprehenderit dolor brunch."  
    ),  
    accordion_item(  
      title = "Input Group B",  
      textInput("input_2", "Input 2"),  
      footer = actionButton("btn1", "OK"),  
      collapsed = FALSE  
    )  
  )  
}
```

---

accordion_item	<i>'Accordion' items</i>
----------------	--------------------------

---

**Description**

'Accordion' items

**Usage**

```
accordion_item(  
  title,  
  ...,  
  footer = NULL,  
  class = "",  
  collapsed = TRUE,  
  parentId = rand_string(prefix = "accordion-"),
```

```

    itemId = rand_string(prefix = "accordion-item-"),
    style_header = NULL,
    style_body = NULL,
    root_path = template_root()
  )

```

### Arguments

title	character title to show in the header
...	body content
footer	footer element, hidden if NULL
class	the class of the item
collapsed	whether collapsed at the beginning
parentId	parent <a href="#">accordion</a> id
itemId	the item id
style_header, style_body	'CSS' style of item header and body
root_path	see <code>template_root</code>

### Value

'shiny.tag.list' 'HTML' tags

### See Also

[accordion](#)

---

add-remove-html-class *Add or remove 'HTML' class from 'RAVE' application*

---

### Description

Only works in template framework provided by 'shidashi' package, see [use\\_template](#)

### Usage

```
add_class(selector, class, session = shiny::getDefaultReactiveDomain())
```

```
remove_class(selector, class, session = shiny::getDefaultReactiveDomain())
```

### Arguments

selector	'CSS' selector
class	class to add or to remove from selected elements
session	shiny session

**Value**

No value is returned

**Examples**

```
server <- function(input, output, session){  
  
  # Add class `hidden` to element with ID `elemid`  
  add_class("#elemid", "hidden")  
  
  # Remove class `hidden` from element with class `shiny-input-optional`  
  remove_class(".shiny-input-optional", "hidden")  
}
```

---

adminlte

*Generates 'AdminLTE' theme-related 'HTML' tags*

---

**Description**

These functions should be called in 'HTML' templates. Please see vignettes for details.

**Usage**

```
adminlte_ui(root_path = template_root())  
  
adminlte_sidebar(  
  root_path = template_root(),  
  settings_file = "modules.yaml",  
  shared_id = rand_string(26)  
)
```

**Arguments**

`root_path` the root path of the website project; see [template\\_settings](#)  
`settings_file` the settings file containing the module information  
`shared_id` a shared identification by session to synchronize the inputs; assigned internally.

**Value**

'HTML' tags

---

as_badge	<i>Generates badge icons</i>
----------	------------------------------

---

**Description**

Usually used along with [card](#), [card2](#), and [card\\_tabset](#). See `tools` parameters in these functions accordingly.

**Usage**

```
as_badge(badge = NULL)
```

**Arguments**

`badge` characters, "shiny.tag" object or NULL

**Details**

When `badge` is NULL or empty, then `as_badge` returns empty strings. When `badge` is a "shiny.tag" object, then 'HTML' class 'right' and 'badge' will be appended. When `badge` is a string, it should follow the syntax of "message|class". The text before "|" will be the badge message, and the text after the "|" becomes the class string.

**Value**

'HTML' tags

**Examples**

```
# Basic usage
as_badge("New")

# Add class `bg-red` and `no-padding`
as_badge("New|bg-red no-padding")
```

---

as_icon	<i>Convert characters, shiny icons into 'fontawesome' 4</i>
---------	---

---

**Description**

Convert characters, shiny icons into 'fontawesome' 4

**Usage**

```
as_icon(icon = NULL, class = "fas")
```

**Arguments**

icon	character or <a href="#">icon</a>
class	icon class; change this when you are using 'fontawesome' professional version. The choices are 'fa' (compatible), 'fas' (strong), 'far' (regular), 'fal' (light), and 'fad' (duo-tone).

**Value**

'HTML' tag

**Examples**

```
if(interactive()){
  as_icon("bookmark", class = "far")
  as_icon("bookmark", class = "fas")

# no icon
as_icon(NULL)
}
```

---

back_top_button	<i>'HTML' code to generate small back-to-top button</i>
-----------------	---

---

**Description**

This function is a template function that should be called in 'HTML' templates before closing the "</body>" tag.

When `open_drawer = TRUE`, an additional button is rendered that fires a `"button.click"` shidashi-event with `type = "open_drawer"`. Module server code (or [chatbot\\_server](#)) can observe this event via [register\\_session\\_events](#) and call `drawer_open / shiny::renderUI` to fill the drawer with content.

**Usage**

```
back_top_button(
  icon = "chevron-up",
  title = "Jump to",
  open_drawer = TRUE,
  drawer_icon = "ellipsis"
)
```

**Arguments**

icon	the icon for back-to-top button
title	the expanded menu title
open_drawer	logical; whether to include a drawer-toggle button. Defaults to TRUE if a .shidashi-drawer element will be present in the page (e.g. from <code>module_drawer()</code> ).
drawer_icon	the icon for the drawer-toggle button; defaults to "ellipsis" (three dots). Use e.g. "robot" for AI-agent modules.

**Value**

'HTML' tags

**Examples**

```
back_top_button()
back_top_button("rocket")
back_top_button("rocket", drawer_icon = "robot")
```

---

bslib\_dependency      *Get Bootstrap 5 dependencies via **bslib***

---

**Description**

Returns Bootstrap 5 HTML dependencies provided by **bslib**. Intended to be called from HTML templates so that `headContent()` renders Bootstrap 5 CSS and JavaScript.

**Usage**

```
bslib_dependency(...)
```

**Arguments**

...      additional arguments passed to `bslib::bs_theme`

**Value**

An `tagList` containing Bootstrap 5 dependencies

---

card

*Card-like 'HTML' element*

---

### Description

Card-like 'HTML' element

### Usage

```
card(  
  title,  
  ...,  
  footer = NULL,  
  tools = NULL,  
  inputId = NULL,  
  class = "",  
  class_header = "",  
  class_body = "",  
  class_foot = "",  
  style_header = NULL,  
  style_body = NULL,  
  start_collapsed = FALSE,  
  resizable = FALSE,  
  root_path = template_root()  
)
```

```
card2(  
  title,  
  body_main,  
  body_side = NULL,  
  footer = NULL,  
  tools = NULL,  
  inputId = NULL,  
  class = "",  
  class_header = "",  
  class_body = "min-height-400",  
  class_foot = "",  
  style_header = NULL,  
  style_body = NULL,  
  start_collapsed = FALSE,  
  root_path = template_root()  
)
```

```
card2_open(inputId, session = shiny::getDefaultReactiveDomain())
```

```
card2_close(inputId, session = shiny::getDefaultReactiveDomain())
```

```

card2_toggle(inputId, session = shiny::getDefaultReactiveDomain())

card_operate(
  inputId,
  title,
  method,
  session = shiny::getDefaultReactiveDomain()
)

```

### Arguments

title	the title of the card
...	the body content of the card
footer	the footer of the card; will be hidden if footer=NULL
tools	a list of tools or badges to be displayed at top-right corner, generated by <a href="#">as_badge</a> or <a href="#">card_tool</a>
inputId	the id of the card
class	the 'HTML' class of the entire card
class_header	the the 'HTML' class of the card header
class_body	the the 'HTML' class of the card body
class_foot	the the 'HTML' class of the card footer
style_header	'CSS' style of the header
style_body	'CSS' style of the body
start_collapsed	whether the card starts as collapsed
resizable	whether the card body can be resized vertically; notice that if true, then the default padding for body will be zero
root_path	see <a href="#">template_root</a>
body_main, body_side	used by card2, the body content of the front and back sides of the card
session	shiny session domain
method	action to expand, minimize, or remove the cards; choices are "collapse", "expand", "remove", "toggle", "maximize", "minimize", and "toggleMaximize"

### Value

'HTML' tags

### Examples

```

library(shiny)
library(shidashi)

# Used for example only
ns <- I

```

```

session <- MockShinySession$new()

# ----- Basic usage -----
card(
  title = "Badges", div(
    class = "padding-20",
    p(
      "Add badges to the top-right corner. ",
      "Use `|` to indicate the badge classes; ",
      "for example: `badge-info`, `badge-warning`..."
    ),
    hr(), p(
      "Use `resizable = TRUE` to make card resizable."
    )
  ),
  tools = list(
    as_badge("New|badge-info"),
    as_badge("3|badge-warning")
  ),
  class_body = "height-300",
  resizable = TRUE
)

# ----- With tools -----
card(
  title = "Default Tools",
  plotOutput(
    ns("card_defaulttool_plot"),
    height = "100%"
  ),
  tools = list(
    card_tool(
      widget = "link",
      href = "https://github.com/dipterix"
    ),
    card_tool(widget = "collapse"),
    card_tool(widget = "maximize")
  ),
  class_body = "height-300",
  resizable = TRUE
)

# ----- Card2 example -----
card2(
  title = "Card2 Example", body_main =
  plotOutput(
    outputId = ns("card2_plot"),
    height = "100%"
  ),
  body_side = fluidRow(
    column(
      6L, textInput(
        ns("card2_plot_title"),

```

```

        "Plot title"
      )
    ),
    column(
      6L, sliderInput(
        ns("card2_plot_npts"),
        "# of points", min = 1, max = 100,
        value = 10, step = 1, round = TRUE
      )
    )
  ),
  tools = list(
    card_tool(widget = "link",
              href = "https://github.com/dipterix"),
    card_tool(widget = "collapse"),
    card_tool(widget = "maximize")
  ),
  class_body = "height-300"
)

```

---

 card\_tabset

*Generates a set of card panels*


---

## Description

To insert, remove, or active card panels, see [card\\_tabset\\_operate](#).

## Usage

```

card_tabset(
  ...,
  inputId = rand_string(prefix = "tabset-"),
  title = NULL,
  names = NULL,
  active = NULL,
  tools = NULL,
  footer = NULL,
  class = "",
  class_header = "",
  class_body = "",
  class_foot = ""
)

```

## Arguments

... 'HTML' tags; each tag will be placed into a card  
 inputId the id of the card-set, must start with letters

title	the title of the card-set
names	title of the tabs
active	the title that will be active on load
tools	a list of tools or badges generated by <a href="#">card_tool</a> or <a href="#">as_badge</a>
footer	the footer element of the card-set
class	the 'HTML' class the of card-set
class_header, class_body, class_foot	additional 'HTML' class the of card header, body, and footer accordingly

**Value**

'HTML' tags

**See Also**

[card\\_tabset\\_operate](#)

**Examples**

```
library(shiny)
library(shidashi)

# Fake session to operate on card_tabset without shiny
session <- MockShinySession$new()

card_tabset(
  inputId = "card_set",
  title = "Cardset with Tools",
  `Tab 1` = p("Tab content 1"),
  class_body = "height-500",
  tools = list(
    as_badge(
      "New|badge-success"
    ),
    card_tool(
      widget = "collapse"
    ),
    card_tool(
      widget = "maximize"
    )
  )
)

card_tabset_insert(
  inputId = "card_set",
  title = "Tab 2",
  p("New content"),
  session = session
)
```

```
card_tabset_activate(  
  inputId = "card_set",  
  title = "Tab 1",  
  session = session  
)  
  
card_tabset_remove(  
  inputId = "card_set",  
  title = "Tab 2",  
  session = session  
)
```

---

card\_tabset\_operate    *Add, active, or remove a card within [card\\_tabset](#)*

---

## Description

Add, active, or remove a card within [card\\_tabset](#)

## Usage

```
card_tabset_insert(  
  inputId,  
  title,  
  ...,  
  active = TRUE,  
  notify_on_failure = TRUE,  
  session = shiny::getDefaultReactiveDomain()  
)  
  
card_tabset_remove(  
  inputId,  
  title,  
  notify_on_failure = TRUE,  
  session = shiny::getDefaultReactiveDomain()  
)  
  
card_tabset_activate(  
  inputId,  
  title,  
  notify_on_failure = TRUE,  
  session = shiny::getDefaultReactiveDomain()  
)
```

**Arguments**

inputId	the element id of <a href="#">card_tabset</a>
title	the title of the card to insert, activate, or to remove
...	the content of the card
active	whether to set the card to be active once added
notify_on_failure	whether to show notifications on failure
session	shiny session domain

**Value**

These functions execute `session$sendCustomMessage` and return whatever value generated by that function; usually nothing.

**See Also**

[card\\_tabset](#)

---

card_tool	<i>Generates small icon widgets</i>
-----------	-------------------------------------

---

**Description**

The icons can be displayed at header line within [accordion](#), [card](#), [card2](#), [card\\_tabset](#). See their examples.

**Usage**

```
card_tool(
  inputId = NULL,
  title = NULL,
  widget = c("maximize", "collapse", "remove", "flip", "refresh", "link", "custom"),
  icon,
  class = "",
  href = "#",
  target = "_blank",
  start_collapsed = FALSE,
  ...
)
```

**Arguments**

inputId	the button id, only necessary when widget is "custom"
title	the tip message to show when the mouse cursor hovers on the icon
widget	the icon widget type; choices are "maximize", "collapse", "remove", "flip", "refresh", "link", and "custom"; see 'Details'
icon	icon to use if you are unsatisfied with the default ones
class	additional class for the tool icons
href, target	used when widget is "link", will open an external website; default is open a new tab
start_collapsed	used when widget is "collapse", whether the card should start collapsed
...	passed to the tag as attributes

**Details**

There are 7 widget types:

"maximize" allow the elements to maximize themselves to full-screen

"collapse" allow the elements to collapse

"remove" remove a [card](#) or [card2](#)

"flip" used together with [flip\\_box](#), to allow card body to flip over

"refresh" refresh all shiny outputs

"link" open a hyper-link pointing to external websites

"custom" turn the icon into a `actionButton`. in this case, `inputId` must be specified.

**Value**

'HTML' tags to be included in `tools` parameter in [accordion](#), [card](#), [card2](#), [card\\_tabset](#)

---

clipboardOutput

*Generates outputs that can be written to clipboards with one click*

---

**Description**

Generates outputs that can be written to clipboards with one click

**Usage**

```

clipboardOutput(
  outputId = rand_string(prefix = "clipboard"),
  message = "Copy to clipboard",
  clip_text = "",
  class = NULL,
  as_card_tool = FALSE
)

renderClipboard(
  expr,
  env = parent.frame(),
  quoted = FALSE,
  outputArgs = list()
)

```

**Arguments**

outputId	the output id
message	tool tip to show when mouse hovers on the element
clip_text	the initial text to copy to clipboards
class	'HTML' class of the element
as_card_tool	whether to make the output as <a href="#">card_tool</a>
expr	expression to evaluate; the results will replace clip_text
env	environment to evaluate expr
quoted	whether expr is quoted
outputArgs	used to replace default arguments of clipboardOutput

**Value**

'HTML' elements that can write to clip-board once users click on them.

**Examples**

```
clipboardOutput(clip_text = "Hey there")
```

---

 drawer

*Open, close, or toggle the drawer panel*


---

**Description**

Send messages to the client to open, close, or toggle the off-canvas drawer panel on the right side of the dashboard.

**Usage**

```

drawer_open(session = shiny::getDefaultReactiveDomain())

drawer_close(session = shiny::getDefaultReactiveDomain())

drawer_toggle(session = shiny::getDefaultReactiveDomain())

```

**Arguments**

```

session      shiny session

```

**Value**

No value is returned (called for side effect).

**Examples**

```

server <- function(input, output, session){
  # Open the drawer
  drawer_open()

  # Close the drawer
  drawer_close()

  # Toggle the drawer
  drawer_toggle()
}

```

---

flex_container	<i>Generate 'HTML' tags with 'flex' layout</i>
----------------	--

---

**Description**

Generate 'HTML' tags with 'flex' layout

**Usage**

```

flex_container(
  ...,
  style = NULL,
  direction = c("row", "column"),
  wrap = c("wrap", "nowrap", "wrap-reverse"),
  justify = c("flex-start", "center", "flex-end", "space-around", "space-between"),
  align_box = c("stretch", "flex-start", "center", "flex-end", "baseline"),
  align_content = c("stretch", "flex-start", "flex-end", "space-between", "space-around",
    "center")
)

```

```

flex_item(
  ...,
  size = 1,
  style = NULL,
  order = NULL,
  flex = as.character(size),
  align = c("flex-start", "flex-end", "center"),
  class = NULL,
  .class = "fill-width padding-5"
)

flex_break(..., class = NULL)

```

### Arguments

...	for flex_container, it's elements of flex_item; for flex_item, ... are shiny 'HTML' tags
style	the additional 'CSS' style for containers or inner items
direction, wrap, justify, align_box, align_content	'CSS' styles for 'flex' containers
size	numerical relative size of the item; will be ignored if flex is provided
order, align, flex	CSS' styles for 'flex' items
class, .class	class to add to the elements

### Value

'HTML' tags

### Examples

```

x <- flex_container(
  style = "position:absolute;height:100vh;top:0;left:0;width:100%",
  flex_item(style = 'background-color:black;'),
  flex_item(style = 'background-color:red;')
)
# You can view it via `htmltools::html_print(x)`

```

---

flip\_box

*An 'HTML' container that can flip*

---

### Description

An 'HTML' container that can flip

**Usage**

```
flip_box(  
  front,  
  back,  
  active_on = c("click", "click-front", "manual"),  
  inputId = NULL,  
  class = NULL  
)  
  
flip(inputId, session = shiny::getDefaultReactiveDomain())
```

**Arguments**

front	'HTML' elements to show in the front
back	'HTML' elements to show when the box is flipped
active_on	the condition when a box should be flipped; choices are 'click': flip when double-click on both sides; 'click-front': only flip when the front face is double-clicked; 'manual': manually flip in R code (see {flip(inputId)} function)
inputId	element 'HTML' id; must be specified if active_on is not 'click'
class	'HTML' class
session	shiny session; default is current active domain

**Value**

flip\_box returns 'HTML' tags; flip should be called from shiny session, and returns nothing

**Examples**

```
# More examples are available in demo  
  
library(shiny)  
library(shidashi)  
  
session <- MockShinySession$new()  
  
flip_box(front = info_box("Side A"),  
         back = info_box("Side B"),  
         inputId = 'flip_box1')  
  
flip('flip_box1', session = session)
```

---

format_text_r	<i>Get re-formatted R expressions in characters</i>
---------------	---

---

### Description

Get re-formatted R expressions in characters

### Usage

```
format_text_r(  
  expr,  
  quoted = FALSE,  
  reformat = TRUE,  
  width.cutoff = 80L,  
  indent = 2,  
  wrap = TRUE,  
  args.newline = TRUE,  
  blank = FALSE,  
  ...  
)  
  
html_highlight_code(  
  expr,  
  class = NULL,  
  quoted = FALSE,  
  reformat = TRUE,  
  copy_on_click = TRUE,  
  width.cutoff = 80L,  
  indent = 2,  
  wrap = TRUE,  
  args.newline = TRUE,  
  blank = FALSE,  
  ...,  
  hover = c("overflow-visible-on-hover", "overflow-auto")  
)
```

### Arguments

expr	R expressions
quoted	whether expr is quoted
reformat	whether to reformat
width.cutoff, indent, wrap, args.newline, blank, ...	passed to <a href="#">tidy_source</a>
class	class of <pre> tag
copy_on_click	whether to copy to clipboard if user clicks on the code; default is true
hover	mouse hover behavior

**Value**

format\_text\_r returns characters, html\_highlight\_code returns the 'HTML' tags wrapping expressions in <pre> tag

**See Also**

[get\\_construct\\_string](#)

**Examples**

```
s <- format_text_r(print(local({a<-1;a+1})))
cat(s)

x <- info_box("Message", icon = "cogs")
s <- format_text_r(get_construct_string(x),
                  width.cutoff = 15L, quoted = TRUE)
cat(s)
```

---

get\_construct\_string *Get R expression used to generate the 'HTML' tags*

---

**Description**

This function only works on the elements generated by this package

**Usage**

```
get_construct_string(x)
```

**Arguments**

x                    'HTML' tags

**Value**

Quoted R expressions that can generate the 'HTML' tags

**See Also**

[format\\_text\\_r](#)

**Examples**

```
x <- info_box("Message")
get_construct_string(x)
```

---

guess_body_class	<i>Guess the 'AdminLTE' body class for modules, used internally</i>
------------------	---

---

**Description**

Guess the 'AdminLTE' body class for modules, used internally

**Usage**

```
guess_body_class(cls)
```

**Arguments**

cls	the class string of the <body> tag in 'index.html'
-----	--

**Value**

The proposed class for <body> tag

---

include_view	<i>Template function to include 'snippets' in the view folder</i>
--------------	---

---

**Description**

Store the reusing 'HTML' segments in the views folder. This function should be used in the 'index.html' template

**Usage**

```
include_view(file, ..., .env = parent.frame(), .root_path = template_root())
```

**Arguments**

file	files in the template views folder
...	ignored
.env, .root_path	internally used

**Value**

rendered 'HTML' segments

**Examples**

```

## Not run:
# in your 'index.html' file
<html>
<header>
{{ shidashi::include_view("header.html") }}
</header>
<body>

</body>
<!-- Before closing html tag -->
{{ shidashi::include_view("footer.html") }}
</html>

## End(Not run)

```

---

info\_box

*Generates 'HTML' info box*


---

**Description**

Generates 'HTML' info box

**Usage**

```

info_box(
  ...,
  icon = "envelope",
  class = "",
  class_icon = "bg-info",
  class_content = "",
  root_path = template_root()
)

```

**Arguments**

...	box content
icon	the box icon; default is "envelope", can be hidden by specifying NULL
class	class of the box container
class_icon	class of the icon
class_content	class of the box body
root_path	see <a href="#">template_root</a>

**Value**

'HTML' tags

### Examples

```
library(shiny)
library(shidashi)

info_box("Message", icon = "cogs")

info_box(
  icon = "thumbs-up",
  span(class = "info-box-text", "Likes"),
  span(class = "info-box-number", "12,320"),
  class_icon = "bg-red"
)

info_box("No icons", icon = NULL)
```

---

init\_app

*Initialize a shidashi application*

---

### Description

Creates a fresh environment holding all per-application global stores (session registry, per-module input registries, etc.). This function is designed to be called from a 'global.R' file generated by [render\(\)](#), not for user's call.

### Usage

```
init_app(env = parent.frame())
```

### Arguments

env                    environment where the application is initialized into.

### Value

Nothing.

### Examples

```
init_app(env = new.env())
```

---

javascript-tunnel      *The 'JavaScript' tunnel*

---

## Description

The 'JavaScript' tunnel

## Usage

```
register_session_id(  
  session = shiny::getDefaultReactiveDomain(),  
  shared_id = NULL,  
  shared_inputs = NA  
)  
  
register_session_events(session = shiny::getDefaultReactiveDomain())  
  
get_theme(event_data, session = shiny::getDefaultReactiveDomain())  
  
get_jsevent(  
  event_data,  
  type,  
  default = NULL,  
  session = shiny::getDefaultReactiveDomain()  
)
```

## Arguments

session	shiny reactive domain
shared_id	the shared id of the session, usually automatically set
shared_inputs	the input names to share to/from other sessions
event_data	a reactive value list returned by register_session_events
type	event type; see 'Details'
default	default value if type is missing

## Details

The `register_session_id` should be used in the module server function. It registers a `shared_id` and a `private_id` to the session. The sessions with the same `shared_id` can synchronize their inputs, specified by `shared_inputs` even on different browser tabs.

`register_session_events` will read the session events from 'JavaScript' and passively update these information. Any the event fired by `shidashi.broadcastEvent` in 'JavaScript' will be available as reactive value. `get_jsevent` provides a convenient way to read these events provided the right event types. `get_theme` is a special `get_jsevent` that with event type `"theme.changed"`.

Function `register_session_id` and `register_session_events` should be called at the beginning of server functions. They can be called multiple times safely. Function `get_jsevent` and `get_theme` should be called in reactive contexts (such as `observe`, `observeEvent`).

### Value

`register_session_id` returns a list of function to control "sharing" inputs with other shiny sessions with the same `shared_id`. `register_session_events` returns a reactive value list that reflects the session state. `get_jsevent` returns events fired by `shidashi.broadcastEvent` in 'JavaScript'. `get_theme` returns a list of theme, foreground, and background color.

### Examples

```
# shiny server function

library(shiny)
server <- function(input, output, session){
  sync_tools <- register_session_id(session = session)
  event_data <- register_session_events(session = session)

  # if you want to enable syncing. They are suspended by default
  sync_tools$enable_broadcast()
  sync_tools$enable_sync()

  # get_theme should be called within reactive context
  output$plot <- renderPlot({
    theme <- get_theme(event_data)
    mar(bg = theme$background, fg = theme$foreground)
    plot(1:10)
  })
}
```

---

mcp\_wrapper

*Wrap an MCP Tool Generator Function*

---

### Description

Creates a wrapper around a generator function to ensure it returns valid Model Context Protocol (MCP) tool definitions. The wrapper validates input and filters output to contain only 'ellmer::ToolDef' objects.

### Usage

```
mcp_wrapper(generator)
```

**Arguments**

generator      A function that accepts a 'session' parameter and returns either a single tool object or a list/vector of such objects; see [tool](#).

**Details**

The wrapper performs the following validations: - Ensures 'generator' is a function - Checks that 'generator' accepts a 'session' parameter

The returned function automatically handles both single tool definitions and lists of tools, providing a consistent interface for MCP tool registration.

**Value**

A wrapped function with class 'shidashi\_mcp\_wrapper' that: - Accepts a 'session' parameter - Calls the generator function with the session - Normalizes the output to a list - Filters to keep only valid tool objects - Returns a list of tool objects (possibly empty)

**Examples**

```
# Define a generator function that returns tool definitions
my_tool_generator <- function(session) {
  # Define MCP tools using ellmer package

  tool_rnorm <- tool(
    function(n, mean = 0, sd = 1) {
      shiny::updateNumericInput(session, "rnorm", value = rnorm)
    },
    description = "Draw numbers from a random normal distribution",
    arguments = list(
      n = type_integer("The number of observations. Must be positive"),
      mean = type_number("The mean value of the distribution."),
      sd = type_number("The standard deviation of the distribution.")
    )
  )

  # or `list(tool_rnorm)`
  tool_rnorm
}

# Wrap the generator
wrapped_generator <- mcp_wrapper(my_tool_generator)
```

**Description**

Emits a minimal `.shidashi-drawer` container with a `uiOutput` placeholder inside, plus the drawer overlay. The drawer starts empty; module server code fills it dynamically via `shiny::renderUI`.

Typical usage in a `'module-ui.html'` template:

```
{{ shidashi::module_drawer() }}
```

Then in the module server:

```
output$shidashi_drawer <- shiny::renderUI({
  shiny::tagList(
    shiny::h5("My settings"),
    shiny::p("Custom drawer content here.")
  )
})
```

The `ns()` function from the module's template evaluation environment is used automatically so that the output ID is properly scoped to the module namespace.

**Usage**

```
module_drawer(output_id = "shidashi_drawer")
```

**Arguments**

`output_id` character; the output ID for the `uiOutput` placeholder inside the drawer. Defaults to `"shidashi_drawer"`.

**Value**

A `shiny::tagList` containing the drawer div and its overlay.

---

module\_info

*Obtain the module information*

---

**Description**

`current_module` returns the information of the currently running module. It looks up the `.module_id` variable in the calling environment (set automatically when a module is loaded), then retrieves the corresponding row from the module table.

`active_module` returns a *reactive* value with information about the module that is currently visible in the `iframe` tab (or the standalone module if no `iframe` manager is present). Unlike `current_module` which is static and always returns the module whose server code is running, `active_module` dynamically tracks which module the user is looking at from any context.

**Usage**

```

module_info(root_path = template_root(), settings_file = "modules.yaml")

current_module(
  session = shiny::getDefaultReactiveDomain(),
  root_path = template_root()
)

active_module(
  session = shiny::getDefaultReactiveDomain(),
  root_path = template_root()
)

load_module(
  root_path = template_root(),
  request = list(QUERY_STRING = "/"),
  env = parent.frame()
)

```

**Arguments**

<code>root_path</code>	the root path of the website project
<code>settings_file</code>	the settings file containing the module information
<code>session</code>	shiny reactive domain; used to extract the module id from the URL query string when <code>.module_id</code> is not found.
<code>request</code>	'HTTP' request string
<code>env</code>	environment to load module variables into

**Details**

The module files are stored in `modules/` folder in your project. The folder names are the module id. Within each folder, there should be one `"server.R"`, `R/`, and a `"module-ui.html"`.

The `R/` folder stores R code files that generate variables, which will be available to the other two files. These variables, along with some built-ins, will be used to render `"module-ui.html"`. The built-in functions are

**ns** shiny name-space function; should be used to generate the id for inputs and outputs. This strategy avoids conflict id effectively.

**.module\_id** a variable of the module id

**module\_title** a function that returns the module label

The `"server.R"` has access to all the code in `R/` as well. Therefore it is highly recommended that you write each 'UI' component side-by-side with their corresponding server functions and call these server functions in `"server.R"`.

`active_module` works by reading the '@shidashi\_active\_module@' Shiny input that is set by the JavaScript front-end whenever a module tab is activated. Because it accesses `session$rootScope().input`,

the return value is reactive: when called inside an observe or reactive context it will re-fire whenever the user switches modules.

If the input has not been set yet (e.g. before any module is opened), the function falls back to `current_module()`.

### Value

A data frame with the following columns that contain the module information:

`id` module id, folder name

`order` display order in side-bar

`group` group menu name if applicable, otherwise NA

`label` the readable label to be displayed on the side-bar

`icon` icon that will be displayed ahead of label, will be passed to `as_icon`

`badge` badge text that will be displayed following the module label, will be passed to `as_badge`

`url` the relative 'URL' address of the module.

`current_module`: a named list with `id`, `group`, `label`, `icon`, `badge`, and `url` of the current module, or NULL if no module is active.

`active_module`: a named list with `id`, `group`, `label`, `icon`, `badge`, and `url` of the currently active (visible) module, or NULL if no module is active.

### Examples

```
library(shiny)
module_info()

# load master module
load_module()

# load specific module
module_data <- load_module(
  request = list(QUERY_STRING = "?module=module_id"))
env <- module_data$environment

if (interactive()){

# get module title
env$module_title()

# generate module-specific shiny id
env$ns("input1")

# generate part of the UI
env$ui()

}
```

---

notification	<i>The 'Bootstrap' notification</i>
--------------	-------------------------------------

---

## Description

The 'Bootstrap' notification

## Usage

```
show_notification(
  message,
  title = "Notification!",
  subtitle = "",
  type = c("default", "info", "warning", "success", "danger", "white", "dark"),
  close = TRUE,
  position = c("topRight", "topLeft", "bottomRight", "bottomLeft"),
  autohide = TRUE,
  fixed = TRUE,
  delay = 5000,
  icon = NULL,
  collapse = "",
  session = shiny::getDefaultReactiveDomain(),
  class = NULL,
  ...
)
```

```
clear_notifications(class = NULL, session = shiny::getDefaultReactiveDomain())
```

## Arguments

message	notification body content, can be 'HTML' tags
title, subtitle	title and subtitle of the notification
type	type of the notification; can be "default", "info", "warning", "success", "danger", "white", "dark"
close	whether to allow users to close the notification
position	where the notification should be; choices are "topRight", "topLeft", "bottomRight", "bottomLeft"
autohide	whether to automatically hide the notification
fixed	whether the position should be fixed
delay	integer in millisecond to hide the notification if autohide=TRUE
icon	the icon of the title
collapse	if message is a character vector, the collapse string
session	shiny session domain

`class` the extra class of the notification, can be used for style purposes, or by `clear_notifications` to close specific notification types.

`...` other options; see <https://adminlte.io/docs/3.1//javascript/toasts.html#options>

### Value

Both functions should be used in shiny reactive contexts. The messages will be sent to shiny 'JavaScript' interface and nothing will be returned.

### Examples

```
## Not run:

# the examples must run in shiny reactive context

show_notification(
  message = "This validation process has finished. You are welcome to proceed.",
  autohide = FALSE,
  title = "Success!",
  subtitle = "type='success'",
  type = "success"
)

show_notification(
  message = "This notification has title and subtitle",
  autohide = FALSE,
  title = "Hi there!",
  subtitle = "Welcome!",
  icon = "kiwi-bird",
  class = "notification-auto"
)

# only clear notifications with class "notification-auto"
clear_notifications("notification-auto")

## End(Not run)
```

---

open\_url

*Open a URL in a new browser tab*

---

### Description

Sends a message to the client to open the specified URL in a new browser window/tab.

### Usage

```
open_url(url, target = "_blank", session = shiny::getDefaultReactiveDomain())
```

**Arguments**

url	character string, the URL to open
target	the window.open target; default is "_blank" (new tab)
session	shiny session

**Value**

No value is returned (called for side effect).

---

progressOutput	<i>Progress bar in shiny dashboard</i>
----------------	--

---

**Description**

For detailed usage, see demo application by running `render()`.

**Usage**

```
progressOutput(
  outputId,
  ...,
  description = "Initializing",
  width = "100%",
  class = "bg-primary",
  value = 0,
  size = c("md", "sm", "xs")
)

renderProgress(expr, env = parent.frame(), quoted = FALSE, outputArgs = list())
```

**Arguments**

outputId	the element id of the progress
...	extra elements on the top of the progress bar
description	descriptive message below the progress bar
width	width of the progress
class	progress class, default is "bg-primary"
value	initial value, ranging from 0 to 100; default is 0
size	size of the progress bar; choices are "md", "sm", "xs"
expr	R expression that should return a named list of value and description
env	where to evaluate expr
quoted	whether expr is quoted
outputArgs	a list of other parameters in progressOutput

**Value**

progressOutput returns 'HTML' tags containing progress bars that can be rendered later via [shiny\\_progress](#) or renderProgress. renderProgress returns shiny render functions internally.

**Examples**

```
library(shiny)
library(shidashi)
progressOutput("sales_report_prog1",
               description = "6 days left!",
               "Add Products to Cart",
               span(class="float-end", "123/150"),
               value = 123/150 * 100)

# server function
server <- function(input, output, session, ...){
  output$sales_report_prog1 <- renderProgress({
    return(list(
      value = 140 / 150 * 100,
      description = "5 days left!"
    ))
  })
}
```

---

register\_global\_reactiveValues

*Register global reactive list*

---

**Description**

Creates or get reactive value list that is shared within the same shiny session

**Usage**

```
register_global_reactiveValues(
  name,
  session = shiny::getDefaultReactiveDomain()
)
```

**Arguments**

name	character, the key of the list
session	shiny session

**Value**

A shiny [reactiveValues](#) object

**Description**

Wrap shiny input and output constructors to register metadata so that MCP (Model Context Protocol) agent tools can discover, read, and update them at runtime. When called inside a module loaded by shidashi, the input/output specification is recorded as a side effect and the UI element is returned. When called outside that context (e.g. in a plain Shiny app), the functions fall back to simply evaluating `expr`.

**Usage**

```
register_input(
  expr,
  inputId,
  update,
  description = "",
  writable = TRUE,
  quoted = FALSE,
  env = parent.frame()
)
```

```
register_output(
  expr,
  outputId,
  description = "",
  quoted = FALSE,
  env = parent.frame()
)
```

**Arguments**

<code>expr</code>	a call expression that creates a shiny input or output widget, e.g. <code>shiny::textInput(inputId = ns("x"), label = "X")</code> or <code>shiny::plotOutput(ns("plot1"), height = "100%")</code> .
<code>inputId</code>	character string. The shiny input ID (without the module namespace prefix).
<code>update</code>	character string. The fully qualified update function, e.g. <code>"shiny::updateTextInput"</code> . Field mappings such as <code>"shiny::updateSelectInput(value=selected)"</code> override the default argument names passed to the update function.
<code>description</code>	character string. A human-readable description of the input or output purpose, exposed to LLM agents via MCP tools.
<code>writable</code>	logical (default TRUE). Whether the MCP update tool is allowed to change this input.
<code>quoted</code>	logical (default FALSE). If TRUE, <code>expr</code> is treated as already quoted; otherwise it is captured with <code>substitute()</code> .

env                   the environment in which to evaluate expr.  
outputId             character string. The shiny output ID (without the module namespace prefix).

### Value

The evaluated UI element produced by expr. The input or output specification is registered as a side effect.

### See Also

[init\\_app](#), [mcp\\_wrapper](#)

### Examples

```
## Not run:  
# inside a shidashi module UI function:  
ns <- shiny::NS("demo")  
  
register_input(  
  expr = shiny::sliderInput(  
    inputId = ns("threshold"),  
    label = "Threshold",  
    min = 0, max = 1, value = 0.5  
  ),  
  inputId = "threshold",  
  update = "shiny::updateSliderInput",  
  description = "Filter threshold for the plot"  
)  
  
register_output(  
  expr = shiny::plotOutput(ns("my_plot"), height = "100%"),  
  outputId = "my_plot",  
  description = "Scatter plot of filtered data"  
)  
  
## End(Not run)
```

---

render

*Render a 'shidashi' project*

---

### Description

Render a 'shidashi' project

**Usage**

```
render(
  root_path = template_root(),
  ...,
  prelaunch = NULL,
  prelaunch_quoted = FALSE,
  launch_browser = TRUE,
  as_job = TRUE,
  test_mode = getOption("shiny.testmode", FALSE)
)
```

**Arguments**

root_path	the project path, default is the demo folder from <code>template_root()</code>
...	additional parameters passed to <code>runApp</code> , such as host, port
prelaunch	expression to execute before launching the session; the expression will execute in a brand new session
prelaunch_quoted	whether the expression is quoted; default is false
launch_browser	whether to launch browser; default is TRUE
as_job	whether to run as 'RStudio' jobs; this options is only available when 'RStudio' is available
test_mode	whether to test the project; this options is helpful when you want to debug the project without relaunching shiny applications

**Value**

This functions runs a 'shiny' application, and returns the job id if 'RStudio' is available.

**Examples**

```
template_root()

if(interactive()){
  render()
}
```

---

reset\_output

*Reset shiny outputs with messages*


---

**Description**

Forces outdated output to reset and show a silent message.

**Usage**

```
reset_output(
  outputId,
  message = "This output has been reset",
  session = shiny::getDefaultReactiveDomain()
)
```

**Arguments**

outputId	output ID
message	output message
session	shiny reactive domain

**Value**

No value

---

shiny_progress	<i>Wrapper of shiny progress that can run without shiny</i>
----------------	---

---

**Description**

Wrapper of shiny progress that can run without shiny

**Usage**

```
shiny_progress(
  title,
  max = 1,
  ...,
  quiet = FALSE,
  session = shiny::getDefaultReactiveDomain(),
  shiny_auto_close = FALSE,
  log = NULL,
  outputId = NULL
)
```

**Arguments**

title	the title of the progress
max	max steps of the procedure
...	passed to initialization method of <a href="#">Progress</a>
quiet	whether the progress needs to be quiet
session	shiny session domain

shiny\_auto\_close           whether to close the progress once function exits

log                         alternative log function

outputId                 the element id of `progressOutput`, or NULL to use the default shiny progress

**Value**

a list of functions that controls the progress

**Examples**

```
{
  progress <- shiny_progress("Procedure A", max = 10)
  for(i in 1:10){
    progress$inc(sprintf("Step %s", i))
    Sys.sleep(0.1)
  }
  progress$close()
}

if(interactive()){
  library(shiny)

  ui <- fluidPage(
    fluidRow(
      column(12, actionButton("click", "Click me"))
    )
  )

  server <- function(input, output, session) {
    observeEvent(input$click, {
      progress <- shiny_progress("Procedure B", max = 10,
                                shiny_auto_close = TRUE)

      for(i in 1:10){
        progress$inc(sprintf("Step %s", i))
        Sys.sleep(0.1)
      }
    })
  }

  shinyApp(ui, server)
}
```

## Description

Please write your own version. This function is designed for demo-use only.

## Usage

```
show_ui_code(  
    x,  
    class = NULL,  
    code_only = FALSE,  
    as_card = FALSE,  
    card_title = "",  
    class_body = "bg-gray-70",  
    width.cutoff = 80L,  
    indent = 2,  
    wrap = TRUE,  
    args.newline = TRUE,  
    blank = FALSE,  
    copy_on_click = TRUE,  
    ...  
)
```

## Arguments

x	'HTML' tags generated by this package
class	additional 'HTML' class
code_only	whether to show code only
as_card	whether to wrap results in <a href="#">card</a>
card_title, class_body	used by <a href="#">card</a> if as_card=TRUE
width.cutoff, indent, wrap, args.newline, blank, copy_on_click, ...	passed to <a href="#">html_highlight_code</a>

## Value

'HTML' tags

## See Also

[html\\_highlight\\_code](#)

---

`skill_wrapper`*Wrap a Skill Directory as an MCP Tool Generator*

---

### Description

Creates a closure that produces an `ellmer::tool` dispatching on an action enumerator:

`readme` Returns the full `SKILL.md` instructions. Must be called first to unlock other actions.

`reference` Returns content from a reference file in the skill directory (gated behind `readme`).

`script` Executes a script in the `scripts/` subdirectory via `processx::run()` (gated behind `readme`).

### Usage

```
skill_wrapper(skill_path)
```

### Arguments

`skill_path` Path to the skill directory containing `SKILL.md`. Can be absolute or relative to the project root.

### Details

The returned tool enforces a soft gate: calling `reference` or `script` before `readme` is allowed, but if the call errors the message is augmented with a condensed summary (~200 tokens) instructing the AI to read the full instructions first. This minimizes token waste (the summary is only sent on failure).

The gate state is per-instance: each call to the wrapper produces a closure with an independent `readme_unlocked` flag.

### Value

A function with class `c("shidashi_skill_wrapper", "function")` that returns an `ellmer::ToolDef` object.

### Examples

```
skill_dir <- system.file(  
  "builtin-templates/bslib-bare/agents/skills/greet",  
  package = "shidashi"  
)  
wrapper <- skill_wrapper(skill_dir)  
tool_def <- wrapper()  
cat(tool_def(action = "readme"))
```

---

template_settings	<i>Configure template options that are shared across the sessions</i>
-------------------	---

---

### Description

Configure template options that are shared across the sessions

### Usage

```
template_settings
template_settings_set(...)
template_settings_get(name, default = NULL)
template_root()
```

### Arguments

...	key-value pair to set options
name	character, key of the value
default	default value if the key is missing

### Format

An object of class `list` of length 3.

### Details

The settings is designed to store static key-value pairs that are shared across the sessions. The most important key is "root\_path", which should be a path pointing to the template folder.

### Value

`template_settings_get` returns the values represented by the corresponding keys, or the default value if key is missing.

### Examples

```
# Get current website root path
template_root()
```

---

use_template	<i>Download 'shidashi' templates from 'Github'</i>
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---

### Description

Download 'shidashi' templates from 'Github'

### Usage

```
use_template(  
  path,  
  user = "dipterix",  
  theme = "bslib",  
  repo = "shidashi-templates",  
  branch = "main",  
  ...  
)
```

### Arguments

path	the path to create 'shidashi' project
user	'Github' user name
theme	the theme to download
repo	repository if the name is other than 'shidashi-templates'
branch	branch name if other than 'main' or 'master'
...	ignored

### Details

To publish a 'shidashi' template, create a 'Github' repository called 'shidashi-templates', or fork the [built-in templates](#). The theme is the sub-folder of the template repository.

An easy way to use a template in your project is through the 'RStudio' project widget. In the 'RStudio' navigation bar, go to "File" menu, click on the "New Project..." button, select the "Create a new project" option, and find the item that creates 'shidashi' templates. Use the widget to set up template directory.

### Value

the target project path

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