

Package ‘shiny.pwa’

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Type Package

Title Progressive Web App Support for Shiny

Version 0.2.1

Description Adds Progressive Web App support for Shiny apps, including desktop and mobile installations.

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URL <https://github.com/pedrocoutinhosilva/shiny.pwa>

Encoding UTF-8

Imports shiny, htmltools, readr, utils, urltools

Suggests testthat

RoxygenNote 7.1.1

NeedsCompilation no

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applyTemplate	<i>Applies a provided template string to a list of arguments. Any arguments gives will be replaced in the template via placeholders wrapped in «argument»</i>
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Description

Applies a provided template string to a list of arguments. Any arguments gives will be replaced in the template via placeholders wrapped in «argument»

Usage

```
applyTemplate(template, arguments = list())
```

Arguments

template	A string with placeholders that can be replaced with the given arguments.
arguments	Named list with values used for the template placeholders.

Value

A string based on the template with the different arguments applied.

createDirectories	<i>Generates the folder structure required for the PWA files.</i>
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Description

Generates the folder structure required for the PWA files.

Usage

```
createDirectories()
```

See Also

[createServiceWorker()], [createIcon()], [createOfflinePage()], [createManifest()]

Other fileGen: [createIcon\(\)](#), [createManifest\(\)](#), [createOfflinePage\(\)](#), [createServiceWorker\(\)](#)

createIcon	<i>Creates the PWA icon file based on the given path.</i>
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Description

Creates the PWA icon file based on the given path.

Usage

```
createIcon(icon)
```

Arguments

icon	Path to the icon used for PWA installations.
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See Also

[createDirectories()], [createServiceWorker()], [createOfflinePage()], [createManifest()]

Other fileGen: [createDirectories\(\)](#), [createManifest\(\)](#), [createOfflinePage\(\)](#), [createServiceWorker\(\)](#)

createManifest	<i>Creates the manifest file.</i>
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Description

Creates the manifest file.

Usage

```
createManifest(title, start_url, color)
```

Arguments

title	title of the page when the PWA is running in offline mode.
start_url	The full url where the app is hosted.
color	An argument that can be used in the offline template to show a custom message.

See Also

[createDirectories()], [createServiceWorker()], [createIcon()], [createOfflinePage()]

Other fileGen: [createDirectories\(\)](#), [createIcon\(\)](#), [createOfflinePage\(\)](#), [createServiceWorker\(\)](#)

`createOfflinePage` *Creates the offline landing page.*

Description

Creates the offline landing page.

Usage

```
createOfflinePage(title, template, offline_message)
```

Arguments

<code>title</code>	title of the page when the PWA is running in offline mode.
<code>template</code>	HTML template to use. If null a default template is used.
<code>offline_message</code>	An argument that can be used in the offline template to show a custom message.

See Also

[[createDirectories\(\)](#)], [[createServiceWorker\(\)](#)], [[createIcon\(\)](#)], [[createManifest\(\)](#)]

Other fileGen: [createDirectories\(\)](#), [createIcon\(\)](#), [createManifest\(\)](#), [createServiceWorker\(\)](#)

`createServiceWorker` *Creates the service worker file based of the package template file.*

Description

Creates the service worker file based of the package template file.

Usage

```
createServiceWorker(output)
```

Arguments

<code>output</code>	Relative folder where to create the service worker file. Usually corresponds to the folder used by shiny to serve static files, this folder must exist and is usually the www folder of your shiny project.
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See Also

[[createDirectories\(\)](#)], [[createIcon\(\)](#)], [[createOfflinePage\(\)](#)], [[createManifest\(\)](#)]

Other fileGen: [createDirectories\(\)](#), [createIcon\(\)](#), [createManifest\(\)](#), [createOfflinePage\(\)](#)

generateFiles	<i>Generates the required files for enabling the pwa.</i>
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Description

Generates the required files for enabling the pwa.

Usage

```
generateFiles(  
  title,  
  domain,  
  location,  
  output,  
  offline_template,  
  offline_message,  
  icon,  
  color  
)
```

Arguments

title	The title of your Shiny app
domain	the base URL where the app is hosted
location	subdirectory where the app is hosted. Only required if the app is not on the root domain.
output	Relative folder where to create the service worker file. Usually corresponds to the folder used by shiny to serve static files, this folder must exist and is usually the www folder of your shiny project.
offline_template	Path to the offline template you want to use. If left NULL the default template is used.
offline_message	When using the default offline page template, message to be displayed.
icon	Icon Path to be used for the app. Size should be 512x512px. If left NULL a default icon is provided.
color	Color of the app. Used to color the browser elements when the pwa is installed.

Value

A UI definition that can be passed to the [shinyUI] function.

getTemplate *Get the full path for a default file template*

Description

Get the full path for a default file template

Usage

```
getTemplate(file)
```

Arguments

file Name of the file including the file extension.

loadDependencies *Returns a set of tags required for registering the pwa.*

Description

Returns a set of tags required for registering the pwa.

Usage

```
loadDependencies(title, icon, color, location)
```

Arguments

title Title of the app
icon Relative path of the icon file used in the pwa manifest file (Defaults to pwa/icon.png).
color color used for the UI on the installed pwa
location subdirectory where the app is hosted. Only required if the app is not on the root domain.

Value

A UI definition that can be passed to the [shinyUI] function.

See Also

[generateFiles()]

pwa	<i>Adds PWA support. Takes care of all the support required for browsers to recognize the application as a Progressive Web app.</i>
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Description

Adds PWA support. Takes care of all the support required for browsers to recognize the application as a Progressive Web app.

Usage

```
pwa(  
  domain,  
  title = "My Shiny PWA",  
  output = NULL,  
  icon = NULL,  
  color = "#000000",  
  offline_template = NULL,  
  offline_message = "Looks like you are offline :/"  
)
```

Arguments

domain	The base URL where the app is hosted
title	The title of your Shiny app
output	Relative folder where to create the service worker file. Usually corresponds to the folder used by shiny to serve static files, this folder must exist and is usually the www folder of your shiny project.
icon	Icon path to be used for the app, relative to the project root. Recommended size is 512x512px. If left NULL a default icon is provided.
color	Color of the app. Used to color the browser elements when the pwa is installed.
offline_template	Path to the offline template you want to use, relative to the project root folder. If left NULL the default template is used.
offline_message	When using the default offline page template defines the message to be displayed.

Value

A UI definition that can be passed to the [shinyUI] function.

Note

For additional details on progressive web apps, visit https://developer.mozilla.org/en-US/docs/Web/Progressive_web_apps

Examples

```
if (interactive()){
  library(shiny.pwa)
  ui <- fluidPage(
    pwa("https://myapp.com", output = "www")
  )
  server <- function(input, output, session) {
  }
  shinyApp(ui, server)
}
```

validateDomain	<i>Clears and validates the provided domain.</i>
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Description

Clears and validates the provided domain.

Usage

```
validateDomain(domain)
```

Arguments

domain A string representing the domain of the application

Value

A validated version of the domain

See Also

[[validateLocation\(\)](#)], [[validateIcon\(\)](#)]

Other validators: [validateIcon\(\)](#), [validateLocation\(\)](#)

validateIcon	<i>Validates the provided icon. If the icon does not exist returns a default one.</i>
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Description

Validates the provided icon. If the icon does not exist returns a default one.

Usage

```
validateIcon(icon)
```

Arguments

icon	Path location for an icon relative to the project root
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Value

A valid icon path

See Also

[validateDomain()], [validateLocation()]

Other validators: [validateDomain\(\)](#), [validateLocation\(\)](#)

validateLocation	<i>Clears and validates the provided location</i>
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Description

Clears and validates the provided location

Usage

```
validateLocation(location)
```

Arguments

location	a string representing the domain subfolder where the application is deployed.
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Value

A validated version of the location

See Also

[validateDomain()], [validateIcon()]

Other validators: [validateDomain\(\)](#), [validateIcon\(\)](#)

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