

# Package ‘FormShare’

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**Type** Package

**Title** A Simple Connection Between the 'FormShare App' and 'R' for  
Advanced Analytics

**Version** 1.0.1

**Description** Provides analytics directly from 'R'. It requires:  
'FormShare App': <<https://github.com/qlands/FormShare> >= 2.22.0> .  
Analytics plugin: <[https://github.com/qlands/formshare\\_analytics\\_plugin](https://github.com/qlands/formshare_analytics_plugin)> .  
Remote SQL plugin: <[https://github.com/qlands/formshare\\_sql\\_plugin](https://github.com/qlands/formshare_sql_plugin)> .

**URL** <https://github.com/qlands/formshare-R-package>

**BugReports** <https://github.com/qlands/formshare-R-package/issues>

**Depends** R (>= 3.0)

**Imports** R6, httr, jsonlite

**License** GPL-3

**Encoding** UTF-8

**RoxygenNote** 7.2.2

**StagedInstall** yes

**Suggests** testthat (>= 3.0.0)

**Config/testthat/edition** 3

**NeedsCompilation** no

**Author** Carlos Quiros [aut, cre] (ORCID:  
<<https://orcid.org/0000-0002-9485-9961>>)

**Maintainer** Carlos Quiros <cquiros@qlands.com>

**Repository** CRAN

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FormShare

*An R6 Class Representing a connection to FormShare*

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**Description**

The main FormShare class.

**Details**

This class encapsulates all functions to execute analytics in FormShare.

**Public fields**

`user_id` The user ID in FormShare.

`api_key` The API key used to connect to FormShare.

`api_secret` The API secret used to connect to FormShare

`server_url` The FormShare server to connect to

`logged_in` Whether the user has a valid connection

`api_token` Token to use in other functions

`token_url` FormShare URL to retrieve a valid token

**Methods****Public methods:**

- `FormShare$new()`
- `FormShare$get_api_key()`
- `FormShare$set_api_key()`
- `FormShare$get_api_secret()`
- `FormShare$set_api_secret()`
- `FormShare$get_server_url()`
- `FormShare$set_server_url()`
- `FormShare$login()`
- `FormShare$get_repositories()`
- `FormShare$get_tables()`
- `FormShare$get_fields()`
- `FormShare$execute()`
- `FormShare$get_table()`
- `FormShare$clone()`

**Method** `new()`: Create a new FormShare object.

*Usage:*

```
FormShare$new(  
  server_url = "https://formshare.org",  
  user_id = "",  
  api_key = "",  
  api_secret = ""  
)
```

*Arguments:*

`server_url` Server URL. By default `https://formshare.org`

`user_id` The user ID to use

`api_key` The API Key to use.

`api_secret` The API Secret to use.

*Returns:* A new FormShare object.

**Method** `get_api_key()`: Get the current API key.

*Usage:*

```
FormShare$get_api_key()
```

**Method** `set_api_key()`: Sets the current API key.

*Usage:*

```
FormShare$set_api_key(new_key)
```

*Arguments:*

`new_key` New API key

**Method** `get_api_secret()`: Get the current API secret

*Usage:*

```
FormShare$get_api_secret()
```

**Method** `set_api_secret()`: Sets the current API secret.

*Usage:*

```
FormShare$set_api_secret(new_secret)
```

*Arguments:*

`new_secret` New API secret

**Method** `get_server_url()`: Get the current server URL

*Usage:*

```
FormShare$get_server_url()
```

**Method** `set_server_url()`: Sets the current server URL.

*Usage:*

```
FormShare$set_server_url(new_url)
```

*Arguments:*

`new_url` New server URL

**Method** `login()`: Log-in to the FormShare server and stores a API token

*Usage:*

```
FormShare$login()
```

*Returns:* True or False if the connection was successful.

**Method** `get_repositories()`: Return the repositories that the user has access to.

*Usage:*

```
FormShare$get_repositories()
```

*Returns:* A data frame with repositories that the user has access to.

**Method** `get_tables()`: Get the tables in a repository.

*Usage:*

```
FormShare$get_tables(repository)
```

*Arguments:*

`repository` The repository to use

*Returns:* A data frame with tables inside a repository.

**Method** `get_fields()`: Get the fields in a table of a repository.

*Usage:*

```
FormShare$get_fields(repository, table)
```

*Arguments:*

`repository` The repository to use

`table` The table to use

*Returns:* A data frame with fields inside a table.

**Method** `execute()`: Executes an SQL and returns its result.

*Usage:*

```
FormShare$execute(repository, sql)
```

*Arguments:*

`repository` The repository to use

`sql` SQL to execute

*Returns:* A data frame with the result of the execution.

**Method** `get_table()`: A convenient function to return the contents of a table.

*Usage:*

```
FormShare$get_table(repository, table)
```

*Arguments:*

`repository` The repository to use

`table` Table to retrieve

*Returns:* A data frame with data of the table

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
FormShare$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

**Examples**

```
# This class requires an API key and secret
# you can get one at https://formshare.org/
#
# Create a new connection to FormShare
my_connection = FormShare$new(server_url = "https://formshare.org",
user_id = "my_user",api_key = "my_api_key",api_secret = "my_api_secret")

# Log in with your account credentials
my_connection$login()

# Get the repositories that your account has access to
repositories = my_connection$get_repositories()

# Get the tables in a repository
tables = my_connection$get_tables("a_repository")

# Get the fields in a table
fields = my_connection$get_fields("a_repository", "a_table")

# Execute a SQL
data = my_connection$execute("a_repository", "SELECT * FROM maintable")

# Get the data from a table
data = my_connection$get_table("a_repository", "a_table")
```

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