

# Package ‘ReviewR’

September 2, 2021

**Title** A Light-Weight, Portable Tool for Reviewing Individual Patient Records

**Version** 2.3.7

**Description** A portable Shiny tool to explore patient-level electronic health record data and perform chart review in a single integrated framework. This tool supports browsing clinical data in many different formats including multiple versions of the 'OMOP' common data model as well as the 'MIMIC-III' data model. In addition, chart review information is captured and stored securely via the Shiny interface in a 'REDCap' (Research Electronic Data Capture) project using the 'REDCap' API. See the 'ReviewR' website for additional information, documentation, and examples.

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**URL** <https://reviewr.thewileylab.org/>,  
<https://github.com/thewileylab/ReviewR/>

**BugReports** <https://github.com/thewileylab/ReviewR/issues>

**Depends** R (>= 3.5.0)

**Imports** bigrquery (>= 1.2.0), config, dashboardthemes, DBI, dbplyr, dplyr (>= 1.0.0), DT, gargle, glue, golem, httr, jsonlite, magrittr, pkgload, purrr, redcapAPI, REDCapR, rlang (>= 0.4.7), RPostgres, RSQLite, shiny (>= 1.5.0), shinycssloaders (>= 1.0.0), shinydashboard, shinydashboardPlus (>= 2.0.0), shinyjs, shinyWidgets (>= 0.6.0), snakecase, stringr, tibble, tidyr (>= 1.1.0)

**Suggests** fs, gt, here, htmltools, knitr, processx, readr, rmarkdown, rstudioapi, spelling, testthat (>= 2.1.0), usethis

**VignetteBuilder** knitr

**Encoding** UTF-8

**Language** en-US

**LazyData** true

**RoxygenNote** 7.1.1

**NeedsCompilation** no

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db\_function\_all\_patients\_table\_template  
*Database Table Function: All Patients Table Template*

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### Description

A character vector containing a function template for creating the 'All Patients' table as displayed on the "Patient Search" Tab

### Usage

```
db_function_all_patients_table_template
```

### Format

A character vector with 22 elements

### See Also

Other Development Templates: [db\\_function\\_subject\\_table\\_template](#), [db\\_module\\_template](#)

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db\_function\_subject\_table\_template

*Database Table Function: Subject Table Template*

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### **Description**

A character vector containing a function template for creating the 'Subject Filtered' tables as displayed on the "Chart Review" Tab

### **Usage**

db\_function\_subject\_table\_template

### **Format**

A character vector with 15 elements

### **See Also**

Other Development Templates: [db\\_function\\_all\\_patients\\_table\\_template](#), [db\\_module\\_template](#)

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db\_module\_template

*Database Module Template*

---

### **Description**

A character vector containing a database module template

### **Usage**

db\_module\_template

### **Format**

A character vector with 52 elements

### **See Also**

Other Development Templates: [db\\_function\\_all\\_patients\\_table\\_template](#), [db\\_function\\_subject\\_table\\_template](#)

dev\_add\_database\_module

*Develop A Database Module*

---

### Description

This function will create a database module skeleton with required elements already populated, based on user inputs. Common database module packages are imported automatically, but developers should add imports to the roxygen skeleton as necessary to both the UI and server functions to collect user info and create a DBI connection object, respectively.

### Usage

```
dev_add_database_module(mod_name = NULL, display_name = NULL)
```

### Arguments

mod_name	<i>Required.</i> A string, denoting the module suffix eg: 'mariadb'
display_name	<i>Required.</i> A string, denoting the module display name eg: 'MariaDB Server'. This is the 'user viewable' name that will appear in the database module selector dropdown.

### Value

A .R file populated with a database module skeleton

### See Also

Other Development Functions: [dev\\_add\\_data\\_model\(\)](#)

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dev\_add\_data\_model

*Develop Data Model Table Functions*

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### Description

This function will assist in adding a new supported data model to ReviewR. A schema file, stored as a CSV will be added to the namespace, such that the database can be identified by the data model detection module. Additionally, a database\_tables.R file will be created and opened in R/ with basic table skeletons created based on the schema stored in the user supplied CSV.

### Usage

```
dev_add_data_model(csv)
```

### Arguments

csv *Required.* The file path of a CSV file containing a data model schema

### Value

A .R file populated with basic database table functions

### See Also

Other Development Functions: [dev\\_add\\_database\\_module\(\)](#)

---

redcap\_survey\_complete  
*REDCap Survey Complete*

---

### Description

A dataset containing valid REDCap "Survey Complete" Values.

### Usage

```
redcap_survey_complete
```

### Format

A data frame with 2 rows and 2 variables:

**redcap\_survey\_complete\_names** The human readable "Survey Complete" Responses

**redcap\_survey\_complete\_values** REDCap API values for "Survey Complete" Responses ...

---

redcap\_widget\_map *REDCap Widget Map*

---

### Description

A dataset that maps REDCap question types and common validations to native shiny widgets through custom functions.

### Usage

```
redcap_widget_map
```

**Format**

A data frame with 9 rows and 3 variables:

**redcap\_field\_type** A REDCap Question Type

**redcap\_field\_validation** Custom REDCap Question Type Validation

**shinyREDCap\_widget\_function** shinyREDCap function to use when mapping to native Shiny widget ...

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ReviewR	<i>ReviewR: A light-weight, portable tool for reviewing individual patient records</i>
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**Description**

ReviewR is a portable Shiny tool to help you explore data across different data models. Within ReviewR, you can browse patient data stored in either the OMOP or MIMIC-III data model. In addition to viewing patient data, you may also connect to a REDCap project to perform a chart review.

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run_app	<i>Run Application</i>
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**Description**

Start the ReviewR Application in a browser on port 1410.

```

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      \/\      \/\      \/\      \/\

```

by WileyLab

Making manual record review fun since 2019!

authors: Laura Wiley, Luke Rasmussen, David Mayer

**Usage**

```
run_app(...)
```

**Arguments**

- ...
- A list of options to pass to the app including:
- **secrets\_json**: A string, containing a file path to a Google OAuth 2.0 Client ID JSON

**Value**

No return value, called to start the ReviewR Shiny Application!

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supported\_data\_models *Supported Data Model Schemas*

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**Description**

A dataset containing data model information along with the corresponding version and nested schema information.

**Usage**

```
supported_data_models
```

**Format**

A data frame with 12 rows and 4 variables:

**data\_model** Data model name

**model\_version** Version of the data model

**data** Nested database schemas, including included table and field mappings

**file\_path** Where schema was imported from ...

**Source**

<https://github.com/OHDSI/CommonDataModel/>

<https://github.com/MIT-LCP/mimic-code>

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