Package: safetyGraphics (via r-universe)

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Title Interactive Graphics for Monitoring Clinical Trial Safety

Version 2.1.1

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Description A framework for evaluation of clinical trial safety. Users
can interactively explore their data using the included 'Shiny'
application.

URL https://github.com/SafetyGraphics/safetyGraphics

BugReports https://github.com/SafetyGraphics/safetyGraphics/issues

Depends R (>= 4.0)

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---

app_startup   *Startup code for shiny app*

Description

Prepare inputs for safetyGraphics app - run before app is initialized.

Usage

```
app_startup(
  domainData = NULL,
  meta = NULL,
  charts = NULL,
  mapping = NULL,
  autoMapping = NULL,
  filterDomain = NULL,
  chartSettingsPaths = NULL,
  appName = NULL,
  hexPath = NULL,
  homeTabPath = NULL
)
```

Arguments

domainData	named list of data.frames to be loaded in to the app. Sample AdAM data from the safetyData package used by default
meta	data frame containing the metadata for use in the app. If no metadata is provided (default value is NULL), metatdata is generated by `makeMeta()`.
charts	list of charts in the format produced by safetyGraphics::makeChartConfig()
mapping	list specifying the initial mapping values for each data mapping for each domain (e.g. list(aes= list(id_col='USUBJID', seq_col='AESEQ')).
autoMapping	boolean indicating whether the app should attempt to automatically detect data standards and generate mappings for the data provided. Values specified in the `mapping` parameter overwrite automatically generated mappings when both are found. Defaults to true.
filterDomain	domain used for the data/filter tab. Demographics ("dm") is used by default. Using a domain that is not one record per participant is not recommended.
chartSettingsPaths	
	path(s) where customization functions are saved relative to your working directory. All charts can have initialization (e.g. myChart_Init.R) and static charts can have charting functions (e.g. myGraphic_Chart.R). All R files in this folder are sourced and files with the correct naming convention are linked to the chart. See the Custom Charts vignette for more details.

appName	character string defining the name of the app (default = "safetyGraphics")
hexPath	path to image file with a hex or other logo. safetyGraphics hex used by default.
homeTabPath	path to html content to be used on the home page. default is a summary of the safetyGraphics framework.

Value

List of elements for used to initialize the shiny app with the following parameters

- "meta" List of configuration metadata
- "charts" List of charts
- "domainData" List of domain level data sets
- "mapping" Initial Data Mapping
- "standards" List of domain level data standards

---

chartsNav *Server for a navbar tab*

Description

Server for a navbar tab

Usage

```
chartsNav(input, output, session, chart, data, mapping)
```

Arguments

input	Input objects from module namespace
output	Output objects from module namespace
session	An environment that can be used to access information and functionality relating to the session
chart	list containing a safetyGraphics chart object like those returned by makeChartConfig.
data	named list of current data sets (Reactive).
mapping	tibble capturing the current data mappings (Reactive).

---

chartsNavUI   *Adds a navbar tab that initializes the Chart Module UI*

Description

Adds a navbar tab that initializes the Chart Module UI

Usage

```
chartsNavUI(id, chart)
```

Arguments

id	module id
chart	chart metadata

---

chartsTab   *Server for chart module, designed to be re-used for each chart generated.*

Description

Server for chart module, designed to be re-used for each chart generated.

Usage

```
chartsTab(input, output, session, chart, data, mapping, status)
```

Arguments

input	Input objects from module namespace
output	Output objects from module namespace
session	An environment that can be used to access information and functionality relating to the session
chart	list containing a safetyGraphics chart object like those returned by makeChartConfig.
data	named list of current data sets (Reactive).
mapping	tibble capturing the current data mappings (Reactive).
status	chart status (Reactive)

---

chartsTabUI   *UI for chart module, designed to be re-used for each chart generated.*

Description

UI for chart module, designed to be re-used for each chart generated.

Usage

```
chartsTabUI(id, chart)
```

Arguments

id	module id
chart	list containing chart specifications like those returned by [makeChartConfig](#).

---

detectStandard   *Detect the data standard used for a data set*

Description

This function attempts to detect the clinical data standard used in a given R data frame.

Usage

```
detectStandard(data, domain = NULL, meta = NULL)
```

Arguments

data	A data frame in which to detect the data standard - required.
domain	the domain to evaluate - should match a value of meta$domain. Uses the first value in meta$domain if no value is provided.
meta	the metadata containing the data standards.

Details

This function compares the columns in the provided "data" with the required columns for a given data standard/domain combination. The function is designed to work with the SDTM and ADaM CDISC(<https://www.cdisc.org/>) standards for clinical trial data by default. Additional standards can be added by modifying the "meta" data set included as part of this package.

Value

A data frame describing the detected standard for each "text_key" in the provided metadata. Columns are "domain", "text_key", "column" and "standard".

Examples

```
detectStandard(data=safetyData::adam_adae, meta=safetyCharts::meta_aes)
detectStandard(data=safetyData::adam_adlbc,meta=safetyCharts::meta_labs, domain="labs" )
```

---

evaluateStandard   *Evaluate a data set against a data standard*

Description

Determines whether the required data elements in a data standard are found in a given data frame

Usage

```
evaluateStandard(data, meta, domain, standard)
```

Arguments

data	A data frame in which to detect the data standard
meta	the metadata containing the data standards.
domain	the domain to evaluate - should match a value of meta$domain
standard	standard to evaluate

Value

a list describing to what degree the data set matches the data standard. The "match" property describes compliance with the standard as "full", "partial" or "none". The "checks" property is a list of the data elements expected for the standard and whether they are "valid" in the given data set. "total_checks", "valid_checks" and "invalid_checks" provide counts of the specified checks. "match_percent" is calculated as valid_checks/total_checks. "mapping" is a data frame describing the detected standard for each "text_key" in the provided metadata. Columns are "text_key", "current" containing the name of the matched column or field value in the data and "match" a boolean indicating whether the data matches the standard.

Examples

```
# Match is TRUE
evaluateStandard(
 data=safetyData::adam_adlbc,
 meta=safetyCharts::meta_labs,
 domain="labs",
 standard="adam"
)

# Match is FALSE
evaluateStandard(
 data=safetyData::adam_adlbc,
```

```
  meta=safetyCharts::meta_labs,
  domain="labs",
  standard="sdtm"
)
```

---

filterTab   *Server for the filter module in datamods::filter_data_ui*

Description

Server for the filter module in datamods::filter_data_ui

Usage

```
filterTab(
  input,
  output,
  session,
  domainData,
  filterDomain,
  current_mapping,
  tabID = "Filtering",
  filterVars = NULL
)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
domainData	list of data files for each domain
filterDomain	domain to use for filtering (typically "dm")
current_mapping	
	current data mapping
tabID	ID for the tab containing the filter UI (used for testing)
filterVars	Variables to use for filtering (used for testing)

Value

filtered data set

---

filterTabChecks *Checks for whether the current data and settings support a filter tab*

Description

Checks for whether the current data and settings support a filter tab

Usage

```
filterTabChecks(domainData, filterDomain, current_mapping)
```

Arguments

domainData	list of data files for each domain
filterDomain	domain to use for filtering (typically "dm")
current_mapping	
	current data mapping (REACTIVE)

Value

reactive that returns a boolean indicating whether the checks passed and filtering can be initialized

---

filterTabUI *UI for the filter module in datamods::filter_data_ui*

Description

UI for the filter module in datamods::filter_data_ui

Usage

```
filterTabUI(id)
```

Arguments

id	module id

---

generateMappingList   *Convert mapping data.frame to a list*

Description

Convert mapping data.frame to a list

Usage

```
generateMappingList(settingsDF, domain = NULL, pull = FALSE)
```

Arguments

settingsDF	data frame containing current mapping
domain	mapping domain to return (returns all domains as a named list by default)
pull	call pull() the value for each parameter - needed for testing only. default: FALSE

---

homeTab   *Server for the filter module in datamods::filter_data_ui*

Description

Server for the filter module in datamods::filter_data_ui

Usage

```
homeTab(input, output, session, config)
```

Arguments

input	mod input
output	mod output
session	mod session

---

homeTabUI   *UI for the home module*

Description

UI for the home module

Usage

```
homeTabUI(id)
```

Arguments

id   module id

---

loadCharts   *Server for the chart loading module used in safetyGraphicsInit()*

Description

Server for the chart loading module used in safetyGraphicsInit()

Usage

```
loadCharts(input, output, session, charts = makeChartConfig())
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
charts	list containing chart specifications like those returned by makeChartConfig.

---

loadChartsUI *UI for the chart loading module used in safetyGraphicsInit()*

Description

UI for the chart loading module used in safetyGraphicsInit()

Usage

```
loadChartsUI(id, charts = makeChartConfig())
```

Arguments

id	module id
charts	list containing chart specifications like those returned by makeChartConfig.

---

loadData *Server for the data loading module used in safetyGraphicsInit()*

Description

Server for the data loading module used in safetyGraphicsInit()

Usage

```
loadData(input, output, session, domain)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
domain	data domain to be loaded

---

loadDataUI   *UI for the data loading module used in safetyGraphicsInit()*

Description

UI for the data loading module used in safetyGraphicsInit()

Usage

```
loadDataUI(id, domain = NULL)
```

Arguments

id	module id
domain	character vector with domains to be loaded

---

makeChartConfig   *Make Chart Config*

Description

Converts YAML chart configuration files to an R list and binds workflow functions. See the vignette about creating custom charts for more details.

Usage

```
makeChartConfig(
  dirs,
  packages = "safetyCharts",
  packageLocation = "config",
  sourceFiles = FALSE
)
```

Arguments

dirs	path to one or more directories containing yaml config files (relative to working directory)
packages	installed packages names containing yaml config files in the /inst/packageLocation folder
packageLocation	
	inst folder where yaml config files (and possibly R functions referenced in yaml workflow) are located in `packages`
sourceFiles	boolean indicating whether to source all R files found in dirs.

Value

returns a named list of charts derived from YAML files. Each element of the list contains informa-
tion about a single chart, and has the following parameters:

- "env" Environment for the chart. Must be set to "safetyGraphics" or the chart is dropped.
- "name" Name of the chart. Also the name of the element in the list - e.g. charts$aeExplorer$name
  is "aeExplorer"
- "label" Short description of the chart
- "type" Type of chart; options are: 'htmlwidget', 'module', 'plot', 'table', 'html' or 'plotly'.
- "domain" Data domain. Should correspond to one or more domains in `meta`
- "package" Primary package (if any). Other packages can be loaded directly in workflow func-
  tions.
- "order" Integer order in which to display the chart. If order is a negative number, the chart is
  dropped.
- "export" Logical flag indicating whether the chart can be exported to an html report. True by
  default, except for when type is module.
- "path" Path to YAML file
- "links" Named list of link names/urls to be shown in the chart header.
- "workflow" List of functions names used to render chart. See vignette for details.
- "functions" List of functions for use in chart renderering. These functions must be located in
  the global environment or `package` field of the YAML config. Function names must include
  either the `name` or `workflow` fields of the YAML config.

---

makeChartExport   *Make Chart Export*

Description

Creates R code that allows chart to be exported

Usage

```
makeChartExport(chart, mapping)
```

Arguments

chart	chart object like the one generated by makeChartConfig().
mapping	mapping object like the one generated by makeMapping().

Value

returns a character vector that can be saved as R code.

makeChartParams *Make Chart Parameters*

Description

Updates raw data and mapping for use with a specific chart

Usage

```
makeChartParams(data, chart, mapping)
```

Arguments

data	list of domain-level data
chart	list containing chart specifications
mapping	data frame with current mapping

---

makeChartSummary *html chart summary*

Description

makes a nicely formatted html summary for a chart object

Usage

```
makeChartSummary(
  chart,
  status = NULL,
  showLinks = TRUE,
  class = "chart-header"
)
```

Arguments

chart	list containing chart specifications
status	(optional) chart status from getChartStatus. Default is NULL.
showLinks	boolean indicating whether to include links
class	character to include as class

---

makeMapping   *Create data mapping based on data standards and user input*

Description

Create data mapping based on data standards and user input

Usage

```
makeMapping(domainData, meta, autoMapping, customMapping)
```

Arguments

domainData	named list of data.frames to be loaded in to the app. Sample AdAM data from the safetyData package used by default
meta	data frame containing the metadata for use in the app.
autoMapping	boolean indicating whether the app should use `safetyGraphics::detectStandard()` to detect data standards and automatically generate mappings for the data provided. Values specified in the `customMapping` parameter overwrite auto-generated mappings when both are found. Defaults to true.
customMapping	optional list specifying initial mapping values within each data mapping (e.g. list(aes= list(id_col='USUBJID', seq_col='AESEQ')).

Value

List containing data standard information and mapping

- "mapping" Initial Data Mapping
- "standards" List of domain level data standards (or NULL if autoMapping is false)

---

makeMeta   *Create a metadata object table for a set of charts*

Description

Generates metadata object for a list of charts. `makeMeta()` looks for metadata in 3 locations for each `chart` object:

- Domain-level metadata saved as meta_chart$name in the chart$package namespace
- Chart-specific metadata saved as meta_chart$domain in the chart$package namespace
- Chart-specific metadata saved directly to the chart object as chart$meta After checking all charts, all metadata files are stacked in to a single dataframe and returned. If duplicate metadata rows (domain + text_key) are found, an error is thrown.

Usage

```
makeMeta(charts)
```

Arguments

charts   list of safetyGraphics chart objects for which to create metadata

Value

tibble of metadata with the following columns:

domain Data domain

text_key Text key indicating the setting name. `'--'` delimiter indicates a field level data mapping

col_key Key for the column mapping

field_key Key for the field mapping (if any)

type type of mapping - "field" or "column"

label Label

description Description

multiple Mapping supports multiple columns/fields

standard_adam Default values for the ADaM data standard

standard_sdtm Default values for the SDTM data standard

---

mappingColumn   *Server that facilitates the mapping of a column data (and any associated fields)*

Description

Server that facilitates the mapping of a column data (and any associated fields)

Usage

```
mappingColumn(input, output, session, meta, data)
```

Arguments

input   Shiny input object

output   Shiny output object

session   Shiny session object

meta   metadata data frame for the object

data   current data file for the domain

Value

A reactive data.frame providing the current value for text_key associated with the selected column

---

mappingColumnUI	*UI that facilitates the mapping of a column data (and any associated fields)*

Description

UI that facilitates the mapping of a column data (and any associated fields)

Usage

```
mappingColumnUI(id, meta, data, mapping = NULL)
```

Arguments

id	module id
meta	metadata for the column (and related fields)
data	current data file for the domain
mapping	current data mapping for the column (and related fields)

---

mappingDomain	*Server that facilitates the mapping of a full data domain*

Description

Server that facilitates the mapping of a full data domain

Usage

```
mappingDomain(input, output, session, meta, data)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
meta	metadata for the domain
data	clinical data for the domain

Value

A reactive data frame containing the mapping for the domain

---

mappingDomainUI   *UI that facilitates the mapping of a full data domain*

Description

UI that facilitates the mapping of a full data domain

Usage

```
mappingDomainUI(id, meta, data, mapping = NULL)
```

Arguments

id	module id
meta	metadata for the domain
data	data file for the domain
mapping	current data mapping

---

mappingSelect   *Server that facilitates the mapping of a single data element (column or field) with a simple select UI*

Description

Server that facilitates the mapping of a single data element (column or field) with a simple select UI

Usage

```
mappingSelect(input, output, session)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object

Value

A reactive containing the selected column

---

mappingSelectUI   *UI that facilitates the mapping of a single data element (column or field) with a simple select UI*

Description

UI that facilitates the mapping of a single data element (column or field) with a simple select UI

Usage

```
mappingSelectUI(id, label, choices = NULL, default = NULL)
```

Arguments

id	unique id for the UI
label	label associated with the control
choices	a list of options for the control
default	default value for the control

Value

returns the selected value wrapped in a `reactive()`.

---

mappingTab   *Server for mapping tab covering of all data domains*

Description

Server for mapping tab covering of all data domains

Usage

```
mappingTab(input, output, session, meta, domainData)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
meta	metadata for all domains
domainData	clinical data for all domains

Value

list of mappings for all domains

---

mappingTabUI *UI for mapping tab covering of all data domains*

Description

UI for mapping tab covering of all data domains

Usage

```
mappingTabUI(id, meta, domainData, mappings = NULL, standards = NULL)
```

Arguments

id	module id
meta	metadata for all domains
domainData	list of data files for each domain
mappings	optional data frame containing stacked mappings for all domains
standards	optional list of data standards like the ones generated by detectStandard()

---

prepareChart *Prepare a chart object for safetyGraphics*

Description

Sets default values and binds needed functions to a chart object based on chart type.

Usage

```
prepareChart(chart)
```

Arguments

chart	chart object like the one generated by makeChartConfig().

Value

returns the chart object with a new functions object added.

---

profileTab   *Server for the patient profile in safetyProfile::profile_server*

Description

Server for the patient profile in safetyProfile::profile_server

Usage

```
profileTab(input, output, session, params)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
params	reactive containing mapping and data
current_id	reactive containing currently selected participant

Value

current_id

---

profileTabUI   *UI for the profile module in safetyProfile::profile_ui*

Description

UI for the profile module in safetyProfile::profile_ui

Usage

```
profileTabUI(id)
```

Arguments

id	module id

Description

Run the core safetyGraphics App

Usage

```
safetyGraphicsApp(
  domainData = list(labs = safetyData::adam_adlbc, aes = safetyData::adam_adae, dm =
    safetyData::adam_adsl),
  meta = NULL,
  charts = NULL,
  mapping = NULL,
  autoMapping = TRUE,
  filterDomain = "dm",
  chartSettingsPaths = NULL,
  appName = "safetyGraphics",
  hexPath = system.file("resources/safetyGraphicsHex.png", package = "safetyGraphics"),
  homeTabPath = system.file("resources/safetyGraphicsHomeTab.html", package =
    "safetyGraphics"),
  launchBrowser = FALSE,
  runNow = TRUE
)
```

Arguments

domainData	named list of data.frames to be loaded in to the app. Sample AdAM data from the safetyData package used by default
meta	data frame containing the metadata for use in the app. If no metadata is provided, metatdata is generated by makeMeta().
charts	list of charts in the format produced by safetyGraphics::makeChartConfig()
mapping	list specifying the initial mapping values for each data mapping for each domain (e.g. list(aes= list(id_col='USUBJID', seq_col='AESEQ')).
autoMapping	boolean indicating whether the app should attempt to automatically detect data standards and generate mappings for the data provided. Values specified in the mapping parameter overwrite automatically generated mappings when both are found. Defaults to true.
filterDomain	domain used for the data/filter tab. Demographics ("dm") is used by default. Using a domain that is not one record per participant is not recommended.
chartSettingsPaths	
	path(s) where customization functions are saved relative to your working directory. All charts can have initialization (e.g. myChart_Init.R) and static charts can have charting functions (e.g. myGraphic_Chart.R). All R files in this folder

are sourced and files with the correct naming convention are linked to the chart. See the Custom Charts vignette for more details.

appName	character string defining the name of the app (default = "safetyGraphics")
hexPath	path to image file with a hex or other logo. safetyGraphics hex used by default.
homeTabPath	path to html content to be used on the home page. default is a summary of the safetyGraphics framework.
launchBrowser	boolean indicating whether to launch the app in a browser. default is false
runNow	Should the shiny app object created be run directly? Helpful when writing functions to dispatch to shinyapps, rsconnect, or shinyproxy.

---

safetyGraphicsInit   *App to select charts, load data and then initialize the core safetyGraphics app*

Description

App to select charts, load data and then initialize the core safetyGraphics app

Usage

```
safetyGraphicsInit(
  charts = makeChartConfig(),
  delayTime = 1000,
  maxFileSize = NULL
)
```

Arguments

charts	chart object
delayTime	time (in ms) between drawing app UI and starting server. Default set to 1000 (1 second), but could need to be higher on slow machine.
maxFileSize	maximum file size in MB allowed for file upload

---

safetyGraphicsServer   *Server for core safetyGraphics app including Home, Mapping, Filter, Charts and Settings modules.*

Description

This function returns a server function suitable for use in shiny::runApp()

Usage

```
safetyGraphicsServer(
  input,
  output,
  session,
  meta,
  mapping,
  domainData,
  charts,
  filterDomain,
  config
)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
meta	data frame containing the metadata for use in the app.
mapping	current mapping
domainData	named list of data.frames to be loaded in to the app.
charts	list of charts to include in the app
filterDomain	domain used for the data/filter tab. Demographics ("dm") is used by default. Using a domain that is not one record per participant is not recommended.

---

safetyGraphicsUI	*UI for the core safetyGraphics app including Home, Mapping, Filter, Charts and Settings modules.*

Description

UI for the core safetyGraphics app including Home, Mapping, Filter, Charts and Settings modules.

Usage

```
safetyGraphicsUI(id, meta, mapping, domainData, charts, standards, config)
```

Arguments

id	module ID
meta	data frame containing the metadata for use in the app.
mapping	data.frame specifying the initial values for each data mapping. If no mapping is provided, the app will attempt to generate one via detectStandard()
domainData	named list of data.frames to be loaded in to the app.

| charts | list of charts in the format produced by safetyGraphics::makeChartConfig() |
| standards | a list of information regarding data standards. Each list item should use the format returned by safetyGraphics::detectStandard. |

---

settingsCharts   *Server for settings tab showing details for the charts loaded in the app*

Description

Server for settings tab showing details for the charts loaded in the app

Usage

```
settingsCharts(input, output, session, charts)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
charts	list data frame summarizing the charts

---

settingsChartsUI   *UI for settings tab showing details for the charts loaded in the app*

Description

UI for settings tab showing details for the charts loaded in the app

Usage

```
settingsChartsUI(id)
```

Arguments

| id | module id |

settingsCode | *Server for settings tab providing code to re-start the app with current data/settings*

Description

Server for settings tab providing code to re-start the app with current data/settings

Usage

```
settingsCode(input, output, session, mapping, charts, domainData)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
mapping	mapping
charts	charts
domainData	data list

settingsCodeUI | *UI for settings tab providing code to re-start the app with current data/settings*

Description

UI for settings tab providing code to re-start the app with current data/settings

Usage

```
settingsCodeUI(id)
```

Arguments

id	module ID

---

settingsData *Server for settings tab showing current data*

Description

Server for settings tab showing current data

Usage

```
settingsData(input, output, session, domains)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
domains	named list of the data.frames for each domain

---

settingsDataUI *UI for settings tab showing current data*

Description

UI for settings tab showing current data

Usage

```
settingsDataUI(id)
```

Arguments

id	module id

---

settingsMapping   *Server for settings tab showing current mapping*

Description

Server for settings tab showing current mapping

Usage

```
settingsMapping(input, output, session, metadata, mapping)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
metadata	Data mapping metadata used for initial loading of app
mapping	reactive data frame representing the current metadata mapping. columns = "domain", "text_id" and "current"

---

settingsMappingUI   *UI for settings tab showing current mapping*

Description

UI for settings tab showing current mapping

Usage

```
settingsMappingUI(id)
```

Arguments

id	module id

settingsTab   *Server for the setting page*

Description

Server for the setting page

Usage

```
settingsTab(input, output, session, domains, metadata, mapping, charts)
```

Arguments

input	Shiny input object
output	Shiny output object
session	Shiny session object
domains	domains
metadata	metadata
mapping	mapping
charts	charts

settingsTabUI   *UI for the settings tab*

Description

UI for the settings tab

Usage

```
settingsTabUI(id)
```

Arguments

id	module ID

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