

# Package ‘cbpManager’

November 28, 2024

**Type** Package

**Title** Generate, manage, and edit data and metadata files suitable for the import in cBioPortal for Cancer Genomics

**Version** 1.14.0

**Date** 2021-03-16

**Description** This R package provides an R Shiny application that enables the user to generate, manage, and edit data and metadata files suitable for the import in cBioPortal for Cancer Genomics.  
Create cancer studies and edit its metadata. Upload mutation data of a patient that will be concatenated to the data\_mutation\_extended.txt file of the study.  
Create and edit clinical patient data, sample data, and timeline data. Create custom timeline tracks for patients.

**License** AGPL-3 + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.2.3

**VignetteBuilder** knitr

**URL** <https://arsenij-ust.github.io/cbpManager/index.html>

**BugReports** <https://github.com/arsenij-ust/cbpManager/issues>

**Depends** shiny, shinydashboard

**Imports** utils, DT, htmltools, vroom, plyr, dplyr, magrittr, jsonlite, rapportools, basilisk, reticulate, shinyBS, shinycssloaders, rintrojs, rlang, markdown

**Suggests** knitr, BiocStyle, rmarkdown, testthat (>= 3.0.0)

**StagedInstall** no

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**biocViews** ImmunoOncology, DataImport, DataRepresentation, GUI, ThirdPartyClient, Preprocessing, Visualization

**Config/testthat/edition** 3

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*addColumn\_Server*      *Server logic of module for adding a column*

**Description**

Server logic of module for adding a column

**Usage**

```
addColumn_Server(input, output, session, data)
```

**Arguments**

|         |                           |
|---------|---------------------------|
| input   | Shiny input               |
| output  | Shiny output              |
| session | Shiny session             |
| data    | source data as data.frame |

**Value**

reactive data.frame of modified source data

*addColumn\_UI*      *UI elements of module for adding a column*

**Description**

UI elements of module for adding a column

**Usage**

```
addColumn_UI(id, label = "Add column")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | module id           |
| label | label of the button |

**Value**

UI module

---

|                 |   |
|-----------------|---|
| addRowRc_Server | <i>Server logic of Resource tab module for adding a row</i> |
|-----------------|---|

---

### Description

Server logic of Resource tab module for adding a row

### Usage

```
addRowRc_Server(
  input,
  output,
  session,
  data,
  patient_ids = NULL,
  sample_ids = NULL,
  resource_ids = NULL,
  resource_type = c("definition", "sample", "patient", "study")
)
```

### Arguments

|               |   |
|---------------|---|
| input         | Shiny input   |
| output        | Shiny output  |
| session       | Shiny session   |
| data          | Source data as data.frame   |
| patient_ids   | Reactive vector of existing patient IDs                                     |
| sample_ids    | Reactive data.frame of existing patient IDs and sample IDs                  |
| resource_ids  | Reactive data.frame of data_resource_definition                             |
| resource_type | The type of the resource. Can be "definition", "sample", "patient", "study" |

### Value

reactive data.frame of modified source data

---

|             |  |
|-------------|--|
| addRowRc_UI | <i>UI elements of Resource tab module for adding a row</i> |
|-------------|--|

---

### Description

UI elements of Resource tab module for adding a row

### Usage

```
addRowRc_UI(id, label = "Add")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | module id           |
| label | label of the button |

**Value**

UI module

---

|               |  |
|---------------|--|
| addRow_Server | <i>Server logic of module for adding a row</i> |
|---------------|--|

---

**Description**

Server logic of module for adding a row

**Usage**

```
addRow_Server(  
  input,  
  output,  
  session,  
  data,  
  patient_ids = NULL,  
  dates_first_diagnosis = NULL,  
  mode = c("timeline", "timepoint")  
)
```

**Arguments**

|                       |  |
|-----------------------|--|
| input                 | Shiny input  |
| output                | Shiny output   |
| session               | Shiny session  |
| data                  | source data as data.frame  |
| patient_ids           | reactive vector of existing patient IDs                          |
| dates_first_diagnosis | data.frame with dates of the first diagnosis and patient IDs     |
| mode                  | Mode of the timeline data. Controls which columns are displayed. |

**Value**

reactive data.frame of modified source data

---

|           |   |
|-----------|---|
| addRow_UI | <i>UI elements of module for adding a row</i> |
|-----------|---|

---

**Description**

UI elements of module for adding a row

**Usage**

```
addRow_UI(id, label = "Add")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | module id           |
| label | label of the button |

**Value**

UI module

---

|                       |  |
|-----------------------|--|
| cBioPortalToDataFrame | <i>Convert the cBioPortal sample- and patient-data file format into a data.frame</i> |
|-----------------------|--|

---

**Description**

This function takes a file object (from read.table), removes the # symbol, sets the 5th row as the column names of the data.frame and removes the rows containing the priority, data type and column name. use read.table as follows: read.table(file, sep='\t', colClasses = 'character', comment.char = '')

**Usage**

```
cBioPortalToDataFrame(data)
```

**Arguments**

|      |   |
|------|---|
| data | The data.frame of a cBioPortal sample/patient data file |
|------|---|

**Value**

data.frame

**Examples**

```
df <- data.frame(
  V1=c("#attr_1", "#attribute 1", "#STRING", "#1", "ATTRIBUTE_1", "value_1"),
  V2=c("attr_2", "attribute 2", "STRING", "1", "ATTRIBUTE_2", "value_2")
)
cbpManager:::cBioPortalToDataFrame(df)
```

---

|            |                          |
|------------|--------------------------|
| cbpManager | <i>Launch cbpManager</i> |
|------------|--------------------------|

---

**Description**

Launch the cbpManager Shiny application.

**Usage**

```
cbpManager(studyDir = NULL, logDir = NULL, returnAppObj = FALSE, ...)
```

**Arguments**

|              |   |
|--------------|---|
| studyDir     | Path to study folder containing studies of cBioPortal.  |
| logDir       | Path where a logfile should be saved. If NULL, logs are not stored  |
| returnAppObj | Logical value, whether to return the app object if set to TRUE. Default behavior: directly runs the app (FALSE) |
| ...          | Further parameters that are used by shiny::runApp, e.g. host or port.   |

**Value**

shiny application object

**Examples**

```
if (interactive()) {  
  cbpManager()  
}
```

---

|                |                   |
|----------------|-------------------|
| cbpManager-pkg | <i>cbpManager</i> |
|----------------|-------------------|

---

**Description**

‘cbpManager’ is an R package that provides an interactive Shiny-based graphical user interface for...

**Author(s)**

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---

|                   |                                 |
|-------------------|---------------------------------|
| check_input_dates | <i>Check the input of dates</i> |
|-------------------|---------------------------------|

---

### Description

Check the input of dates

### Usage

```
check_input_dates(diagnosisDate, startDate = NULL, endDate = NULL)
```

### Arguments

|               |                              |
|---------------|------------------------------|
| diagnosisDate | date of first diagnosis      |
| startDate     | start date of timeline event |
| endDate       | end date of timeline event   |

### Value

Returns a number indicating the warning

### Examples

```
cbpManager:::check_input_dates(  
  diagnosisDate = "2020-01-01",  
  startDate = "2020-02-01",  
  endDate = "2020-03-01"  
) #returns 0  
cbpManager:::check_input_dates(  
  diagnosisDate = "2020-01-01",  
  startDate = "2019-02-01"  
) #returns 2  
cbpManager:::check_input_dates(  
  diagnosisDate = "2020-01-01",  
  endDate = "2019-02-01"  
) #returns 2  
cbpManager:::check_input_dates(  
  diagnosisDate = "2020-01-01",  
  startDate = "2020-03-01",  
  endDate = "2020-02-01"  
) #returns 1
```



---

|                  |   |
|------------------|---|
| convertDataFrame | <i>Convert the data.frame to the appropriate file format for cBioPortal</i> |
|------------------|---|

---

**Description**

Convert the data.frame to the appropriate file format for cBioPortal

**Usage**

```
convertDataFrame(df)
```

**Arguments**

|    |            |
|----|------------|
| df | data.frame |
|----|------------|

**Value**

Data.frame formatted for the cBioPortal file format

**Examples**

```
cbpManager:::convertDataFrame(  
  data.frame(  
    ATTRIBUTE1=c("attr_1", "attribute 1", "STRING", "value_a1"),  
    ATTRIBUTE2=c("attr_2", "attribute 2", "STRING", "value_b1")  
  )  
)
```

---

|             |                       |
|-------------|-----------------------|
| create_name | <i>Sanitize names</i> |
|-------------|-----------------------|

---

**Description**

This function takes a character string, replaces spaces by underscores and runs make.names.

**Usage**

```
create_name(x, toupper = TRUE)
```

**Arguments**

|         |  |
|---------|--|
| x       | A character string.  |
| toupper | If TRUE, the name will be upper-case; if FALSE, the name will be lower-case. |

**Value**

A sanitized string.

**Examples**

```
cbpManager:::create_name("Study name 1") #returns "STUDY_NAME_1"
cbpManager:::create_name("FANCY;name", toupper = FALSE) #returns "fancy.name"
```

---

deleteColumn\_Server     *Server logic of module for deleting a column*

---

**Description**

Server logic of module for deleting a column

**Usage**

```
deleteColumn_Server(input, output, session, data, exclude)
```

**Arguments**

|         |  |
|---------|--|
| input   | Shiny input  |
| output  | Shiny output                                       |
| session | Shiny session                                      |
| data    | source data as data.frame                          |
| exclude | column names that should be excluded from deletion |

**Value**

reactive data.frame of modified source data

---

deleteColumn\_UI     *UI elements of module for deleting a column*

---

**Description**

UI elements of module for deleting a column

**Usage**

```
deleteColumn_UI(id, label = "Delete column(s)")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | module id           |
| label | label of the button |

**Value**

UI module

---

deleteRowRc\_Server      *Server logic of Resource tab module for deleting a row*

---

**Description**

Server logic of Resource tab module for deleting a row

**Usage**

```
deleteRowRc_Server(
  input,
  output,
  session,
  data,
  selected_row,
  mode = "default",
  sample_data = NULL,
  patient_data = NULL,
  study_data = NULL
)
```

**Arguments**

|              |   |
|--------------|---|
| input        | Shiny input   |
| output       | Shiny output  |
| session      | Shiny session   |
| data         | Source data as data.frame   |
| selected_row | Index of the selected row from the table                                      |
| mode         | If 'recursive' the resources bind to the resource definition will be deleted. |
| sample_data  | Data of the resource from type 'sample'                                       |
| patient_data | Data of the resource from type 'patient'                                      |
| study_data   | Data of the resource from type 'study'  |

**Value**

reactive data.frame of modified source data

---

deleteRowRc\_UI      *UI elements of module for removing a row*

---

**Description**

UI elements of module for removing a row

**Usage**

```
deleteRowRc_UI(id, label = "Delete")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | Module id           |
| label | Label of the button |

**Value**

UI module

---

|                  |  |
|------------------|--|
| deleteRow_Server | <i>Server logic of module for removing a row</i> |
|------------------|--|

---

**Description**

Server logic of module for removing a row

**Usage**

```
deleteRow_Server(input, output, session, data, selected_row)
```

**Arguments**

|              |  |
|--------------|--|
| input        | Shiny input                              |
| output       | Shiny output                             |
| session      | Shiny session                            |
| data         | source data as data.frame                |
| selected_row | Index of the selected row from the table |

**Value**

reactive data.frame of modified source data

---

|              |   |
|--------------|---|
| deleteRow_UI | <i>UI elements of module for removing a row</i> |
|--------------|---|

---

**Description**

UI elements of module for removing a row

**Usage**

```
deleteRow_UI(id, label = "Delete")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | module id           |
| label | label of the button |

**Value**

UI module

---

|                  |  |
|------------------|--|
| editRowRc_Server | <i>Server logic of Resource tab module for editing a row</i> |
|------------------|--|

---

**Description**

Server logic of Resource tab module for editing a row

**Usage**

```
editRowRc_Server(
  input,
  output,
  session,
  data,
  patient_ids = NULL,
  sample_ids = NULL,
  resource_ids = NULL,
  selected_row = NULL,
  resource_type = c("definition", "sample", "patient", "study")
)
```

**Arguments**

|               |   |
|---------------|---|
| input         | Shiny input   |
| output        | Shiny output  |
| session       | Shiny session   |
| data          | Source data as data.frame   |
| patient_ids   | Reactive vector of existing patient IDs                                     |
| sample_ids    | Reactive data.frame of existing patient IDs and sample IDs                  |
| resource_ids  | Reactive data.frame of data_resource_definition                             |
| selected_row  | Index of the selected row   |
| resource_type | The type of the resource. Can be "definition", "sample", "patient", "study" |

**Value**

reactive data.frame of modified source data

---

|              |  |
|--------------|--|
| editRowRc_UI | <i>UI elements of module for editing a row</i> |
|--------------|--|

---

**Description**

UI elements of module for editing a row

**Usage**

```
editRowRc_UI(id, label = "Edit")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | Module id           |
| label | Label of the button |

**Value**

UI module

---

|                |   |
|----------------|---|
| editRow_Server | <i>Server logic of module for editing a row</i> |
|----------------|---|

---

**Description**

Server logic of module for editing a row

**Usage**

```
editRow_Server(
  input,
  output,
  session,
  data,
  patient_ids = NULL,
  dates_first_diagnosis = NULL,
  selected_row = NULL,
  mode = c("timeline", "timepoint")
)
```

**Arguments**

|                       |  |
|-----------------------|--|
| input                 | Shiny input  |
| output                | Shiny output   |
| session               | Shiny session  |
| data                  | source data as data.frame  |
| patient_ids           | reactive vector of existing patient IDs                          |
| dates_first_diagnosis | data.frame with dates of the first diagnosis and patient IDs     |
| selected_row          | the index of the selected row                                    |
| mode                  | Mode of the timeline data. Controls which columns are displayed. |

**Value**

reactive data.frame of modified source data

---

editRow\_UI

*UI elements of module for editing a row*


---

**Description**

UI elements of module for editing a row

**Usage**

```
editRow_UI(id, label = "Edit")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | module id           |
| label | label of the button |

**Value**

UI module

---

fncols

*Add empty column to a data.frame, if column does not exist in the data.frame*


---

**Description**

Add empty column to a data.frame, if column does not exist in the data.frame

**Usage**

```
fncols(data, cname)
```

**Arguments**

|       |             |
|-------|-------------|
| data  | data.frame  |
| cname | column name |

**Value**

data.frame

**Examples**

```
cbpManager:::fncols(data.frame(a=c(1,2,3), b=c(4,5,6)), "new")
```

---

```
generateOncotreeUIwidgets
```

*Create shiny UI-widget for specific columns of oncotree entries*

---

### Description

Create shiny UI-widget for specific columns of oncotree entries

### Usage

```
generateOncotreeUIwidgets(  
  colname,  
  mode = c("add", "edit"),  
  tab = c("Patient", "Sample")  
)
```

### Arguments

|         |  |
|---------|--|
| colname | column name  |
| mode    | determines the inputId prefix of the UI-widget                           |
| tab     | "Patient", "Sample" - The used tab; sets the html id prefix of the input |

### Value

A oncotree specific shiny UI-widget

### Examples

```
oncotree <- jsonlite::fromJSON(system.file("extdata", "oncotree.json", package = "cbpManager"))  
cancer_type <- unique(oncotree$mainType[which(!is.na(oncotree$mainType))])  
cbpManager::generateOncotreeUIwidgets("CANCER_TYPE", "add")
```

---

```
generateUIwidgets
```

*Generate UI input widget*

---

### Description

Generate UI input widget

### Usage

```
generateUIwidgets(  
  colname,  
  mode = c("add", "edit"),  
  tab = c("Patient", "Sample", "Mutation"),  
  data = NULL,  
  selected_row = NULL,  
  patientIDs = NULL,  
  sampleIDs = NULL  
)
```



**Arguments**

|              |  |
|--------------|--|
| colname      | A character string - the name of the column, that will be the label of the input |
| mode         | "add" or "edit" - whether to use existing values or not                          |
| tab          | "Patient", "Sample" - The used tab; sets the html id prefix of the input         |
| data         | A data.frame.  |
| selected_row | A number indicating the row number of the selected row in the data.frame.        |
| patientIDs   | Vector of patient IDs used for drop down menu of the PATIENT_ID column           |

**Value**

A sanitized string.

**Examples**

```
cbpManager:::generateUIwidgets(colname = "attribute", mode = "add", tab = "Patient")
```

---

|              |  |
|--------------|--|
| getSampleIDs | <i>Get Sample IDs associated with Patient IDs from the data_clinical_sample.txt file</i> |
|--------------|--|

---

**Description**

Get Sample IDs associated with Patient IDs from the data\_clinical\_sample.txt file

**Usage**

```
getSampleIDs(file_path, patIDs)
```

**Arguments**

|           |                     |
|-----------|---------------------|
| file_path | A character string. |
| patIDs    | A character string. |

**Value**

vector with Sample IDs

**Examples**

```
cbpManager:::getSampleIDs(
  system.file("study/testpatient/data_clinical_sample.txt", package = "cbpManager"),
  patIDs = "Testpatient")
```

---

|                   |   |
|-------------------|---|
| importPatientData | <i>Import patient data into current study data.frames</i> |
|-------------------|---|

---

### Description

Import patient data into current study data.frames

### Usage

```
importPatientData(
  mode = c("patient", "sample", "mutations", "timelines"),
  file_name,
  file_path,
  patIDs,
  data,
  associatedSampleIDs = NULL
)
```

### Arguments

|                     |  |
|---------------------|--|
| mode                | Defines the type of imported data                |
| file_name           | Filename of source data                          |
| file_path           | Filepath with filename of source data            |
| patIDs              | PATIENT_IDs of patients that should be imported  |
| data                | Source data, to be subsetted according to patIDs |
| associatedSampleIDs | The sample IDs associated to the patIDs          |

### Value

data.frame

---

|        |   |
|--------|---|
| IsDate | <i>Check if input is in the appropriate date format</i> |
|--------|---|

---

### Description

Check if input is in the appropriate date format

### Usage

```
IsDate(mydate, date.format = "%Y-%m-%d")
```

### Arguments

|             |                                  |
|-------------|----------------------------------|
| mydate      | date                             |
| date.format | string describig the date format |

**Value**

boolean

**Examples**

```
cbpManager:::IsDate("2020-02-20")
cbpManager:::IsDate("20.01.2020", date.format = "%d.%m.%Y")
```

---

saveResource\_Server     *Server logic of module for saving the resource data*

---

**Description**

Server logic of module for saving the resource data

**Usage**

```
saveResource_Server(
  input,
  output,
  session,
  data,
  study_id,
  data_filename,
  meta_filename,
  resource_type = c("SAMPLE", "DEFINITION", "PATIENT", "STUDY")
)
```

**Arguments**

|               |   |
|---------------|---|
| input         | Shiny input   |
| output        | Shiny output  |
| session       | Shiny session   |
| data          | Source data as data.frame   |
| study_id      | The current study ID  |
| data_filename | File name of the data file  |
| meta_filename | file name of the meta file  |
| resource_type | The type of the resource. Can be "definition", "sample", "patient", "study" |

**Value**

boolean value; TRUE if function was used.

---

saveResource\_UI      *UI elements of module for saving the resource data*

---

**Description**

UI elements of module for saving the resource data

**Usage**

```
saveResource_UI(id, label = "Save")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | module id           |
| label | label of the button |

**Value**

UI module

---

saveTimeline\_Server      *Server logic of module for saving the source data*

---

**Description**

Server logic of module for saving the source data

**Usage**

```
saveTimeline_Server(input, output, session, data, study_id)
```

**Arguments**

|          |                           |
|----------|---------------------------|
| input    | Shiny input               |
| output   | Shiny output              |
| session  | Shiny session             |
| data     | source data as data.frame |
| study_id | the current study ID      |

**Value**

boolean value; TRUE if function was used.

---

saveTimeline\_UI      *UI elements of module for saving the data*

---

**Description**

UI elements of module for saving the data

**Usage**

```
saveTimeline_UI(id, label = "Save")
```

**Arguments**

|       |                     |
|-------|---------------------|
| id    | module id           |
| label | label of the button |

**Value**

UI module

---

setupConda\_cbpManager      *Install conda environment with basilisk before launching the app*

---

**Description**

Install conda environment with basilisk before launching the app

**Usage**

```
setupConda_cbpManager()
```

**Value**

Nothing to return

**Examples**

```
## Not run:  
setupConda_cbpManager()  
  
## End(Not run)
```

shinyAppServer      *Shiny app server function*

---

**Description**

Shiny app server function

**Usage**

```
shinyAppServer(input, output, session)
```

**Arguments**

|         |                   |
|---------|-------------------|
| input   | provided by shiny |
| output  | provided by shiny |
| session | provided by shiny |

**Value**

nothing to return

---

shinyAppUI      *Shiny app server object create the shiny application user interface*

---

**Description**

Shiny app server object create the shiny application user interface

**Usage**

```
shinyAppUI
```

**Format**

An object of class shiny.tag of length 3.

---

 updateOncotreeUIwidgets

*Updates UI-widgets for specific columns of oncotree entries*


---

### Description

Updates UI-widgets for specific columns of oncotree entries

### Usage

```
updateOncotreeUIwidgets(
  session,
  row_last_clicked,
  mode = c("add", "edit"),
  tab = c("Patient", "Sample")
)
```

### Arguments

|                  |   |
|------------------|---|
| session          | Shiny session   |
| row_last_clicked | the index of the row last clicked in the oncotree_table |
| mode             | determines the inputId prefix of the UI-widget          |
| tab              | "Patient", "Sample" - The used tab; sets the html id pr |

### Value

nothing to return

---

validateResourceDefinition

*Validate resource\_definition input*


---

### Description

Validate resource\_definition input

### Usage

```
validateResourceDefinition(values, resourceDf, mode = "add")
```

### Arguments

|            |  |
|------------|--|
| values     | List of input values                       |
| resourceDf | data.frame of data_resource_definition     |
| mode       | The mode of the function ('add' or 'edit') |

### Value

boolean

validateResourcePatient

*Validate resource\_patient input*

---

**Description**

Validate resource\_patient input

**Usage**

validateResourcePatient(values)

**Arguments**

values            List of input values

**Value**

boolean

---

validateResourceSample

*Validate resource\_sample input*

---

**Description**

Validate resource\_sample input

**Usage**

validateResourceSample(values)

**Arguments**

values            List of input values

**Value**

boolean



---

validateResourceStudy *Validate resource\_study input*

---

**Description**

Validate resource\_study input

**Usage**

```
validateResourceStudy(values)
```

**Arguments**

values            List of input values

**Value**

boolean

---

ValidationDependencies  
*Validation Dependencies*

---

**Description**

Vector defining a set of Python dependencies and versions required to operate with the validation scripts for cBioPortal

**Usage**

```
.validation_dependencies
```

**Format**

A character vector containing the pinned versions of all Python packages on which the import validation depends.

---

|              |  |
|--------------|--|
| writeLogfile | <i>Write a line to a logfile containing the date, time, username (from Shinyproxy), and the name of the modified file.</i> |
|--------------|--|

---

**Description**

Write a line to a logfile containing the date, time, username (from Shinyproxy), and the name of the modified file.

**Usage**

```
writeLogfile(outdir, modified_file, log_filename = "cbpManager_logfile.txt")
```

**Arguments**

|               |  |
|---------------|--|
| outdir        | directory, where the logfile should be saved |
| modified_file | Name of the modified file                    |
| log_filename  | Name of the logfile                          |

**Value**

Nothing to return

**Examples**

```
cbpManager::writeLogfile(tempdir(), "data_clinical_patient.txt")
```

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