Package 'Ulysses'

May 6, 2024

Title Automate OHDSI Study Setup

Version 0.0.5

Description

Automates setup of OHDSI study and provides functions to assist on improving organization and communication of a study.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Imports cli,
crayon,
fs,
gert,
gh,
glue,
keyring,
lifecycle,
lubridate,
magrittr,
purrr,
rlang,
rstudioapi,
scales,
snakecase,
usethis,
whisker,
withr,
yaml

Suggests knitr,
rmarkdown,
here,
testthat (>= 3.0.0)

Config/testthat/edition 3

VignetteBuilder knitr

R **topics documented:**

---

addConfig   *Add a line to the config file*

Description

Add a line to the config file

Usage

```
addConfig(block, database = block, projectPath = here::here(), open = TRUE)
```

Arguments

block	the name of the config block
database	the name of the database for the block, default to block name
projectPath	the path to the project
open	toggle on whether the file should be opened

---

addDataSources   *Function to add study data sources*

Description

Function to add study data sources

Usage

```
addDataSources(..., projectPath = here::here())
```

Arguments

...	a list of data sources to add
projectPath	the path to the project

Value

invisible studyYml, prints specifying what changes happened

---

addLinks *Function to add study links*

Description

Function to add study links

Usage

```
addLinks(..., projectPath = here::here())
```

Arguments

`...`	a list of links to add
`projectPath`	the path to the project

Value

invisible studyYml, prints specifying what changes happened

---

addStudyMember *Function to add a study member*

Description

Function to add a study member

Usage

```
addStudyMember(name, email = NULL, projectPath = here::here())
```

Arguments

`name`	the name of the study member
`email`	the study member's email
`projectPath`	the path to the project

Value

invisible studyYml, prints specifying what changes happened

---

addTags   *Function to add study tags*

Description

Function to add study tags

Usage

```
addTags(..., projectPath = here::here())
```

Arguments

...	a list of study tags to add
projectPath	the path to the project

Value

invisible studyYml, prints specifying what changes happened

---

buildStudyHub   *Function to build study hub*

Description

Function to build study hub

Usage

```
buildStudyHub(
  projectPath = here::here(),
  logoPath = NULL,
  footer = NULL,
  backgroundColor = "#336B91"
)
```

Arguments

projectPath	path to ohdsi study
logoPath	a path to a logo png to use in the quarto website, defaults to ohdsi logo from Ulysses inst.
footer	add a footer to the study Hub
backgroundColor	
	change background color, defaults to OHDSI blue #336B91

Value

builds a _site folder in documenation that holds the html website

---

checkConfig   *check if config file is in ohdsi study*

Description

check if config file is in ohdsi study

Usage

```
checkConfig()
```

---

checkDatabaseCredential
                      Function to check the database credential

---

Description

Function to check the database credential

Usage

```
checkDatabaseCredential(cred, db, keyringName, verbose = TRUE)
```

Arguments

cred	the credential to set (i.e dbms, user, connectionString)
db	the database prefix for the credential
keyringName	the name of the keyringName for the credential check, this will be the keyring namec
verbose	toggle option to print console message

---

cohortManifest   *Function that lists all cohort definitions loaded into the study*

Description

Function that lists all cohort definitions loaded into the study

Usage

```
cohortManifest(projectPath = here::here())
```

Arguments

projectPath	the path to the project

Value

tibble of the cohorts in the project

---

defaultCredentials *Function to list default credentials*

Description

This function builds the standard credential set needed for most connections. If another credential is needed use `c()` to bind the character vector.

Usage

```
defaultCredentials()
```

---

getHadesWideLock *Function to grab the hades wide lock file*

Description

Function to grab the hades wide lock file

Usage

```
getHadesWideLock(version, projectPath = here::here())
```

Arguments

version	the version of the hades wide lock file to use
projectPath	the path to the project

---

importAtlasCohorts *Function to import Atlas cohorts into Ulysses*

Description

Function to import Atlas cohorts into Ulysses

Usage

```
importAtlasCohorts(cohortIds, keyringName = "atlas", keyringPassword = "ohdsi")
```

Arguments

cohortIds	the atlas ids of the cohorts you want to import
keyringName	the name of the keyring to save credentials. Defaults to atlas
keyringPassword	
	the password for the keyring to save credentials. Defaults to ohdsi

Value

saves circe json of ids given to the cohorts/json folder of Ulysses

---

importAtlasConceptSets

Function to import Atlas concept sets into Ulysses

Description

Function to import Atlas concept sets into Ulysses

Usage

```
importAtlasConceptSets(
  conceptSetIds,
  keyringName = "atlas",
  keyringPassword = "ohdsi"
)
```

Arguments

conceptSetIds   the atlas ids of the cconcept sets you want to import

keyringName   the name of the keyring to save credentials. Defaults to atlas

keyringPassword

                 the password for the keyring to save credentials. Defaults to ohdsi

Value

saves circe json of ids given to the cohorts/conceptSets/json folder of Ulysses

---

importImages   *Function to import a folder of images for a study hub*

Description

Function to import a folder of images for a study hub

Usage

```
importImages(imageFolder, projectPath = here::here())
```

Arguments

imageFolder   the file path for an image folder

projectPath   path to ohdsi study

Value

invisible return of the image file folder

initConfig	*Function to create a config.yml file*

Description

Function to create a config.yml file

Usage

```
initConfig(
  block = "BlockName",
  database = "DatabaseName",
  withKeyring = FALSE,
  projectPath = here::here(),
  open = TRUE
)
```

Arguments

block	the name of the config block, defaults to BlockName
database	the name of the database for the block, default to DatabaseName
withKeyring	should the config file use keyring, default FALSE
projectPath	the path to the project
open	toggle on whether the file should be opened

initConfigUsingKeyring	
	Function to initialize config.yml using keyring

Description

Function to initialize config.yml using keyring

Usage

```
initConfigUsingKeyring(dbIds, projectPath = here::here(), open = TRUE)
```

Arguments

dbIds	the dbIds to add to the config file
projectPath	the path to the project
open	toggle on whether the file should be opened

initConfigUsingTable   *Function to import credentials in stored csv to study config.yml*

Description

Function to import credentials in stored csv to study config.yml

Usage

```
initConfigUsingTable(
  credFile = fs::path_home("shhh.csv"),
  projectPath = here::here(),
  open = TRUE
)
```

Arguments

credFile	a credential.csv file stored in a secure location
projectPath	the path to the project
open	toggle on whether the file should be opened

initCredentialsKeyring

Function to set multi credentials

Description

Function to set multi credentials

Usage

```
initCredentialsKeyring(db_id, keyringPassword = "ulysses", forceCheck = TRUE)
```

Arguments

db_id	the database id to distinguish the set of credentials
keyringPassword	
	the password for the keyring. Defaults to ulysses.
forceCheck	a toggle that will print blurred credentials to check credential

initCredentialsTable   *Function to start a credential table*

Description

Function to start a credential table

Usage

```
initCredentialsTable(
  db_id,
  db_full_name = db_id,
  dbms,
  user,
  password,
  connection_string,
  cdm_database_schema,
  work_database_schema,
  temp_emulation_schema = work_database_schema
)
```

Arguments

db_id   an id or shortName for a database. Please use snakecase

db_full_name   the full name of the database. If not specified defaults to db_id

dbms   the dbms for your database. Can be either redshift, postgres, snowflake, sql
                    server or oracle

user   the user name to connect to the database

password   the password to connect to the databse

connection_string
                    a jdbc connection string to use with DatabaseConnector

cdm_database_schema
                    the cdm database schema of the datbase you want to use

work_database_schema
                    a scratch schema the user has read and write access to in order to build cohort
                    tables

temp_emulation_schema
                    a schema required for oracle and snowflake to make temp tables.

Value

writes a csv to your home directory called shhh.csv storing your database credentials

---

isOhdsiStudy   *Function to check if the directory is an ohdsi project*

Description

Function to check if the directory is an ohdsi project

Usage

```
isOhdsiStudy(basePath)
```

Arguments

basePath   the path of the directory

---

makeAnalysisPlan   *Function to create a SAP*

Description

Function to create a SAP

Usage

```
makeAnalysisPlan(projectPath = here::here(), open = TRUE)
```

Arguments

projectPath   the path to the project

open   toggle on whether the file should be opened

---

makeAnalysisTask   *Function to create a pipeline task as a Rmd file*

Description

Function to create a pipeline task as a Rmd file

Usage

```
makeAnalysisTask(
  taskName,
  configBlock = NULL,
  date = lubridate::today(),
  projectPath = here::here(),
  open = TRUE
)
```

Arguments

taskName	The name of the analysis script
configBlock	the name of the config block to use for the script
date	the date the script was built, default to today's date
projectPath	the path to the project
open	toggle on whether the file should be opened

---

makeCaprScript	*Function to create a pipeline task as an R file*

Description

Function to create a pipeline task as an R file

Usage

```
makeCaprScript(
  scriptName,
  configBlock = NULL,
  date = lubridate::today(),
  projectPath = here::here(),
  open = TRUE
)
```

Arguments

scriptName	The name of the capr file that is being created
configBlock	the name of the config block to use for the script
date	the date the script was built, default to today's date
projectPath	the path to the project
open	toggle on whether the file should be opened

---

makeCohortDetails	*Function to create the cohort details for the study*

Description

The cohort details file is a document that provides a human-readable version of the circe cohort definitions used in the study. This function targets the cohortsToCreate folder and makes a quarto of the cohort details.

Usage

```
makeCohortDetails(projectPath = here::here(), open = TRUE)
```

Arguments

projectPath   the path to the project

open   toggle on whether the file should be opened

Value

writes a CohortDetails.qmd file to the documentation folder

---

makeContributionGuidelines

R Markdown file to make the contribution guidelines

Description

R Markdown file to make the contribution guidelines

Usage

```
makeContributionGuidelines(projectPath = here::here(), open = TRUE)
```

Arguments

projectPath   the path to the project

open   toggle on whether the file should be opened

---

makeHowToRun   *Function to create a HowToRun file*

Description

Function to create a HowToRun file

Usage

```
makeHowToRun(projectPath = here::here(), open = TRUE)
```

Arguments

projectPath   the path to the project

open   toggle on whether the file should be opened

---

makeInternals *Function to create a pipeline task as an R file*

Description

Function to create a pipeline task as an R file

Usage

```
makeInternals(
  internalsName,
  date = lubridate::today(),
  projectPath = here::here(),
  open = TRUE
)
```

Arguments

internalsName	The name of the internals file that is being created
date	the date the script was built, default to today's date
projectPath	the path to the project
open	toggle on whether the file should be opened

---

makeKeyringSetup *Function to create a config.yml file*

Description

Function to create a config.yml file

Usage

```
makeKeyringSetup(
  database = NULL,
  configBlock = NULL,
  secret = NULL,
  projectPath = here::here(),
  open = TRUE
)
```

Arguments

database	the name of the database for the project, can be NULL
configBlock	the name of the configBlock to use, can be NULL
secret	a keyword to use as the keyring password to access credentials, if NULL password is ulysses
projectPath	the path to the project
open	toggle on whether the file should be opened

makeMigrationScript   *Function to create a migration script*

Description

Function to create a migration script

Usage

```
makeMigrationScript(
  scriptName,
  date = lubridate::today(),
  projectPath = here::here(),
  open = TRUE
)
```

Arguments

scriptName	The name of the analysis script
date	the date the script was built, default to today's date
projectPath	the path to the project
open	toggle on whether the file should be opened

makeNews   *Function to create a NEWS file*

Description

Function to create a NEWS file

Usage

```
makeNews(projectPath = here::here(), open = TRUE)
```

Arguments

projectPath	the path to the project
open	toggle on whether the file should be opened

makeReadMe *Function to create a README file*

Description

Function to create a README file

Usage

```
makeReadMe(projectPath = here::here(), open = TRUE)
```

Arguments

projectPath   the path to the project

open   toggle on whether the file should be opened

makeResultsReport *Quarto file to make a results report*

Description

Quarto file to make a results report

Usage

```
makeResultsReport(projectPath = here::here(), open = TRUE)
```

Arguments

projectPath   the path to the project

open   toggle on whether the file should be opened

makeStrategusTask *Function to create a pipeline task as a Rmd file*

Description

Function to create a pipeline task as a Rmd file

Usage

```
makeStrategusTask(
  taskName,
  configBlock = NULL,
  date = lubridate::today(),
  projectPath = here::here(),
  open = TRUE
)
```

Arguments

`taskName`	The name of the analysis script
`configBlock`	the name of the config block to use for the script
`date`	the date the script was built, default to today's date
`projectPath`	the path to the project
`open`	toggle on whether the file should be opened

`makeWebApiScript`   *Function to create a pipeline task as an R file*

Description

Function to create a pipeline task as an R file

Usage

```
makeWebApiScript(
  keyringName = NULL,
  keyringPassword = NULL,
  projectPath = here::here(),
  open = TRUE
)
```

Arguments

`keyringName`	The name of the keyring for the study, if null defaults to dir basename
`keyringPassword`	
	The password for the keyring, if null defauls to ohdsi
`projectPath`	the path to the project
`open`	toggle on whether the file should be opened

`newOhdsiStudy`   *Function that initializes a new ohdsi study project environment*

Description

Function that initializes a new ohdsi study project environment

Usage

```
newOhdsiStudy(
  path,
  projectName = basename(path),
  studyInfo = setStudyInfo(id = basename(path)),
  authors = setStudyAuthors(),
  timeline = setStudyTimeline(),
  about = setStudyDescription(),
  links = setStudyLinks(),
  tags = setStudyTags(),
  verbose = TRUE,
  openProject = TRUE
)
```

Arguments

path	the path where the project sits
projectName	the name of the project
studyInfo	a list object identifying the title, type and study version, defaults to `setStudyInfo`, see documentation
authors	a list object identifying the lead and developer authors names and emails, defaults to `setStudyAuthors`, see documentation.
timeline	a list object identifying the study status, start and end date, defaults to `setStudyTimeline`, see documentation
about	a list object identifying the study description, therapeutic area and databases, defaults to `setStudyDescription`, see documentation
links	a list object identifying the linked resources of the study, defaults to `setStudyLinks`, see documentation
tags	a list object identifying tags to the study, defauls to `setStudyTags`, see documentation
verbose	whether the function should provide steps, default TRUE
openProject	should the project be opened if created

---

openCredentials	*Function to open the credentials table to edit or peak*

Description

Function to open the credentials table to edit or peak

Usage

```
openCredentials(credFile = fs::path_home("shhh.csv"))
```

Arguments

credFile	the path to shhh.csv

Value

tibble of credentials

---

previewStudyHub *Function to preview study hub*

Description

Function to preview study hub

Usage

```
previewStudyHub(projectPath = here::here())
```

Arguments

projectPath   path to ohdsi study

Value

previews study hub in browser

---

publishStudyToRepository
                    Publish Study to Repo

Description

Publish Study to Repo

Usage

```
publishStudyToRepository(repoUrl, message = "Initial commit for OHDSI study")
```

Arguments

repoUrl   an https url for the repo remote. Example: https://github.com/Org/repo.git

message   the commit message for your OHDSI study

---

retrieveStudySettings *Function to convert yml into a specified list format*

Description

Function to convert yml into a specified list format

Usage

```
retrieveStudySettings(projectPath)
```

Arguments

projectPath   the path to the project

Value

the study yml as an R object (list)

---

runTaskInBackground *Function to run study task in background*

Description

Function to run study task in background

Usage

```
runTaskInBackground(taskFile, configBlock, projectPath = here::here())
```

Arguments

taskFile   a task file to run in the background

configBlock   the configBlock to use in the study

projectPath   the path to the project

Value

invisble return, launches background job

---

setAtlasCredentials   *Function to set atlas credentials for keyring*

Description

Function to set atlas credentials for keyring

Usage

```
setAtlasCredentials(keyringName = "atlas", keyringPassword = "ohdsi")
```

Arguments

keyringName   the name of the keyring to save credentials. Defaults to atlas

keyringPassword

        the password for the keyring to save credentials. Defaults to ohdsi

Value

a series of dialog box inputs for the webapi credentials including the baseUrl, authMethod, user and password

---

setCredential   *Function to set single credential*

Description

Function to set single credential

Usage

```
setCredential(cred, db, keyringName, keyringPassword, forceCheck = TRUE)
```

Arguments

cred   the credential to set (i.e dbms, user, connectionString)

db   the database prefix for the credential

keyringName   the name of the keyringName for the credential set, this will be the keyring namec

keyringPassword

        the password for the keyring.

forceCheck   a toggle that will print blurred credentials to check credential

---

setMultipleCredentials

Function to set multi credentials

Description

Function to set multi credentials

Usage

```
setMultipleCredentials(
  creds,
  db,
  keyringName,
  keyringPassword,
  forceCheck = TRUE
)
```

Arguments

creds	a vector of credentials to set (i.e dbms, user, connectionString). See defaultCredentials on building set
db	the database prefix for the credential
keyringName	the name of the keyringName where the credential will be set
keyringPassword	the password for the keyring.
forceCheck	a toggle that will print blurred credentials to check credential

---

setStrategusInstantiatedFolder

Function to set strategus instantiated folder

Description

Function to set strategus instantiated folder

Usage

```
setStrategusInstantiatedFolder(folderName, root = NULL)
```

Arguments

folderName	the name of the instantiated folder
root	the root path to the folder, defaults to the home path

---

setStudyAuthors   *Function to set study authors*

Description

Function to set study authors

Usage

```
setStudyAuthors(
  developer = Sys.getenv("USERNAME"),
  developerEmail = glue::glue("{developer}@ohdsi.org"),
  lead = "Ulysses",
  leadEmail = "Ulysses@ohdsi.org"
)
```

Arguments

developer	specify the study developer, default to system variable
developerEmail	the email of the developer
lead	specify the lead of the study
leadEmail	specify the lead of the study email

Value

a list containing study authors

---

setStudyDescription   *Function to set study description*

Description

Function to set study description

Usage

```
setStudyDescription(
  desc = "Provide a 1 to 2 sentence description of your study. Be concise.",
  ta = "Specify the therapeutic area of the study",
  dataSources = list("Truven MarketScan", "Optum Market Clarity")
)
```

Arguments

desc	a brief description of the study
ta	a character string of the therapeutic area
dataSources	a list of data sources

Value

a list containing study description info

---

setStudyInfo   *Function to set study info*

Description

Function to set study info

Usage

```
setStudyInfo(
  id,
  title = id,
  type = c("Characterization"),
  version = "0.0.0.999"
)
```

Arguments

id	specify the study id
title	specify the study title
type	specify the type of study
version	specify the study version

Value

a list containing study info

---

setStudyKeyring   *Function to set study keyring*

Description

Function to set study keyring

Usage

```
setStudyKeyring(keyringName, keyringPassword)
```

Arguments

keyringName	the name of the keyring, this should be the reponame for the study
keyringPassword	
	a password to access the study keyring

---

setStudyLinks *Function to set study links*

Description

Function to set study links

Usage

```
setStudyLinks(...)
```

Arguments

`...`   a series of resource links for the study

Value

a list containing links to resources

---

setStudyTags *Function to set study tags*

Description

Function to set study tags

Usage

```
setStudyTags(...)
```

Arguments

`...`   a series of tags for the study

Value

a list containing study tags

---

setStudyTimeline *Function to set study timeline*

Description

Function to set study timeline

Usage

```
setStudyTimeline(
  status = "Started",
  startDate = as.character(lubridate::today()),
  endDate = as.character(lubridate::today() + (365 * 2))
)
```

Arguments

status	the study status, default is started
startDate	the start of the study, defaults to todays date
endDate	the date specifying the end (or expected end) of the study

Value

a list containing study timeline

---

updateDeveloperInfo *Function to update developer Infor*

Description

Function to update developer Infor

Usage

```
updateDeveloperInfo(newName, newEmail, projectPath = here::here())
```

Arguments

newName	change the developer name
newEmail	change the developer email

Value

invisible studyYml, prints specifying what changes happened

---

updateLeadInfo   *Function to update lead Infor*

Description

Function to update lead Infor

Usage

```
updateLeadInfo(newName, newEmail, projectPath = here::here())
```

Arguments

newName   change the lead name

newEmail   change the lead email

Value

invisible studyYml, prints specifying what changes happened

---

updateStudyDescription

Function to update study description

Description

Function to update study description

Usage

```
updateStudyDescription(newStudyDescription, projectPath = here::here())
```

Arguments

projectPath   the path to the project

newStudyVersion

        the new study description

Value

invisible studyYml, prints specifying what changes happened

---

updateStudyEndDate   *Function to update study end date*

Description

Function to update study end date

Usage

```
updateStudyEndDate(newEndDate, projectPath = here::here())
```

Arguments

newEndDate   the new end date of the study, suggest format YYYY-MM-DD

projectPath   the path to the project

Value

invisible studyYml, prints specifying what changes happened

---

updateStudyStatus   *Function to update study status*

Description

Function to update study status

Usage

```
updateStudyStatus(
  newStudyStatus = c("Started", "In-Progress", "Stopped", "Completed"),
  projectPath = here::here()
)
```

Arguments

newStudyStatus the new status of the study, accepts Started, In-Progress, Stopped, Completed

projectPath   the path to the project

Value

invisible studyYml, prints specifying what changes happened

---

updateStudyTitle   *Function to update study title*

Description

Function to update study title

Usage

```
updateStudyTitle(newStudyTitle, projectPath = here::here())
```

Arguments

newStudyTitle   the new study title

projectPath   the path to the project

Value

invisible studyYml, prints specifying what changes happened

---

updateStudyVersion   *Function to update study version*

Description

Function to update study version

Usage

```
updateStudyVersion(newStudyVersion, projectPath = here::here())
```

Arguments

newStudyVersion

                 the new study version

projectPath   the path to the project

Value

invisible studyYml, prints specifying what changes happened

---

updateTherapeuticArea *Function to update study therapeutic area*

Description

Function to update study therapeutic area

Usage

```
updateTherapeuticArea(newTA, projectPath = here::here())
```

Arguments

newTA   the new study therapeutic area

projectPath   the path to the project

Value

invisible studyYml, prints specifying what changes happened

---

zipResults *Funciton to compress results into a zip file*

Description

Funciton to compress results into a zip file

Usage

```
zipResults(databaseName, projectPath = here::here())
```

Arguments

databaseName   the name of the database folder to compress

projectPath   the path to the project

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