

Package: learnitprogress (via r-universe)

August 29, 2024

Type Package

Version 0.9.0

Title Report Student Progress in 'LearnIt::R' Courses

Description A Shiny app that connects to you LRS ("Learning Record Store" database, as created and managed by the 'learnitdown' package) and displays a report showing the completion of exercises and projects. This report is intended for students to track their progress in the course.

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Depends R (>= 4.2.0)

Imports cowplot, dplyr, fs, ggplot2, mongolite, RCurl, rlang, shiny, utils

Suggests shinybusy, shinythemes, knitr, rmarkdown, spelling, testthat (>= 3.0.0)

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URL <https://github.com/learnitr/learnitprogress>,
<https://learnitr.github.io/learnitprogress/>

BugReports <https://github.com/learnitr/learnitprogress/issues>

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

VignetteBuilder knitr

Encoding UTF-8

Language en-US

ByteCompile yes

Config/testthat/edition 3

Repository <https://learnitr.r-universe.dev>

RemoteUrl <https://github.com/learnitr/learnitprogress>

RemoteRef HEAD

RemoteSha 1a829b9d1115accdcca6571bb40be1fdece22e85

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check_profile	<i>Check student profile to identify it from URL's parameters</i>
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Description

Get the list of required parameters to identify a student from the URL.

Usage

```
check_profile(profile, url_profile)
```

```
query_params_list()
```

```
is_correct_query(query)
```

```
profile_from_query(query)
```

Arguments

profile	Profile data gathered from the LRS
url_profile	Profile data gathered from the URL
query	The query part of the URL (text after ?, like in https://mysite.org?params1=1&param2=2). The query is a character string with each value, named with the parameters names.

Details

In Moodle, the URL variables must be set as follows:

- iemail = Student's email
- iid = Student' ID ("Nom d'utilisateur" in French in Moodle)
- ifirstname = First name of the student
- ilastname = Last name of the student
- institution = Institution
- icourse = Identifier for the course

- ictitle = Title of the course
- iurl = URL of the Moodle server
- iref = Moodle ID

Value

TRUE if the profile is correct, FALSE otherwise.

A character vector with the list of parameters

TRUE if all required parameters are in the query, FALSE otherwise.

A list with the required parameters

Examples

```
query_params_list()
is_correct_query(c(iemail = "student@uni.edu", iid = "1234",
  ifirstname = "John", ilastname = "Doe", institution = "University",
  icourse = "123", ictitle = "Course title", iurl = "https://moodle.uni.edu",
  iref = "2FAB3EE8-42B5-4B61-DA23-2167FACD7B569"))
is_correct_query(c(iemail = "student@uni.edu"))
profile_from_query(c(iemail = "student@uni.edu", iid = "1234", other = "a"))
```

class_logins

Get a list of all user logins in a given class

Description

Get a list of all user logins in a given class

Usage

```
class_logins(class, url = getOption("learnitr.lrs_url"), as.json = FALSE)
```

```
class_aa(
  aa,
  url = getOption("learnitr.lrs_url"),
  as.json = FALSE,
  module = NULL
)
```

```
user_login(email, url = getOption("learnitr.lrs_url"))
```

Arguments

class	The short identifier of the class
url	The URL of the MongoDB database (LRS)
as.json	If TRUE, return the result as a JSON string
aa	The short identifier of the activity
module	The module to restrict too, or NULL for all modules
email	The email of the student

Value

A character vector with the results

get_data	<i>Get data from exercises or projects for one student</i>
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Description

Get data from exercises or projects for one student

Usage

```

get_data(
  collection,
  query,
  fields = "{}",
  url = getOption("learnitr.lrs_url"),
  count = FALSE
)

get_profile(email, login = NULL)

get_all_data(email, icourse, module = NULL)

get_github_data(email)

get_grid_data(email, icourse, module = NULL)

get_grade_data(email, icourse)

get_grade_dir(root_dir = "/data1/grades", acad_year = NULL)

```

Arguments

collection	The collection in the MongoDB database
query	The JSON query on the MongoDB database
fields	The fields to return
url	The url to access the MongoDB database
count	Do we count items instead of getting them?
email	The email of the student
login	The GitHub login of the student as alternate way to get its profile (when it is not NULL)
icourse	The course identifier
module	The module, or NULL for exercises in all modules
root_dir	The root directory where the grades are stored.
acad_year	The academic year to use, or NULL to use the latest one.

Value

A data frame or a list with the data

learnr_prog	<i>Progression in learnrs, H5P and Shiny apps</i>
-------------	---

Description

Progression in learnrs, H5P and Shiny apps

Usage

```
learnr_prog(
  user_login,
  class_logins,
  class_aa,
  class_data = NULL,
  url = getOption("learnitr.lrs_url")
)

h5p_prog(
  user_login,
  class_logins,
  class_aa,
  class_data = NULL,
  url = getOption("learnitr.lrs_url")
)
```

```
shiny_prog(
  user_login,
  class_logins,
  class_aa,
  class_data = NULL,
  url = getOption("learnitr.lrs_url")
)
```

Arguments

user_login	The GitHub login of one student
class_logins	All the logins for the class
class_aa	The AA identifier for this class
class_data	The data for this class
url	The url of the MongoDB data base

Value

A data frame with all the progression data for the user and the class

plot_grade	<i>Visualize details about the grade for one student</i>
------------	--

Description

Visualize details about the grade for one student

Usage

```
plot_grade(data, show.name = TRUE, give.note = TRUE)
```

Arguments

data	Grading data
show.name	Indicate the name of the student in the title
give.note	Indicate the final note in the title

Value

A ggplot object

plot_progression	<i>Progression plot for one student (exercises H5P, Shiny & Learnr)</i>
------------------	---

Description

Progression plot for one student (exercises H5P, Shiny & Learnr)

Usage

```
plot_progression(user, data)
```

Arguments

user	The user login
data	The data for this user

Value

A ggplot object

report_progress	<i>Show the progress report for one student</i>
-----------------	---

Description

Show the progress report for one student

Usage

```
report_progress(  
  email,  
  second.course = FALSE,  
  course = NULL,  
  module = NULL,  
  browse = TRUE,  
  url = getOption("learnitr.lrs_url"),  
  port = 3260  
)  
  
run_progress_report(port = 3260)
```

Arguments

email	The email address of the student
second.course	Should we display data for a secondary course that the student follows?
course	The primary course
module	Should we restrict data for one module, (or all with NULL)?
browse	Should we browse to the provided URL?
url	The url to connect to the MongoDB database
port	The port where the Shiny application is serving. If 0, a version on a server (for instance, on Posit Connect) is used.

Value

The URL to the progress report

Examples

```
## Not run:  
# In a different R session, run the following line:  
learnitprogress::run_progress_report()  
# Then...  
options(learnitr.lrs_url = "mongodb://127.0.0.1/sdd")  
learnitprogress::report_progress("student.email@school.edu")  
  
## End(Not run)
```


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