

Package ‘g4sr’

February 15, 2024

Type Package

Title Go4Schools API Wrapper

Version 0.7.0

Maintainer Afsar Chowdhury <a.chowdhury@hydehighschool.uk>

Description An API wrapper for Go4Schools. Allows you to manage your school data.
Authentication is required for all requests. See your school's
administrator for an API key.

License GPLv3

URL <https://github.com/afsarchowdhury/g4sr>

BugReports <https://github.com/afsarchowdhury/g4sr/issues>

Encoding UTF-8

LazyData true

Imports crayon,
data.table,
dplyr,
ggplot2,
glue,
httr,
jsonlite,
lubridate,
magrittr,
scales,
stringr,
tidyr

RoxygenNote 7.2.3

Roxygen list(markdown = TRUE)

Suggests testthat,
knitr,
rmarkdown

VignetteBuilder knitr

R topics documented:

gfs_assessment_markbooks 3

<code>gfs_assessment_marks</code>	3
<code>gfs_assessment_marksheets</code>	4
<code>gfs_attainment_exam_results</code>	4
<code>gfs_attainment_grades</code>	5
<code>gfs_attainment_grade_types</code>	5
<code>gfs_attainment_prior</code>	6
<code>gfs_attendance_codes</code>	6
<code>gfs_attendance_student_lesson_marks</code>	7
<code>gfs_attendance_student_session_marks</code>	7
<code>gfs_attendance_student_summary</code>	8
<code>gfs_behaviour_classification</code>	8
<code>gfs_behaviour_events</code>	9
<code>gfs_behaviour_events_range</code>	9
<code>gfs_behaviour_event_types</code>	10
<code>gfs_behaviour_followup</code>	10
<code>gfs_behaviour_immediate</code>	11
<code>gfs_calendar</code>	11
<code>gfs_classes</code>	12
<code>gfs_contacts_parental</code>	12
<code>gfs_reports</code>	12
<code>gfs_reports_attributes</code>	13
<code>gfs_reports_comments</code>	13
<code>gfs_reports_grades</code>	14
<code>gfs_school</code>	14
<code>gfs_setup</code>	15
<code>gfs_student_classes</code>	15
<code>gfs_student_demographics</code>	16
<code>gfs_student_details</code>	16
<code>gfs_student_edu_details</code>	17
<code>gfs_student_general</code>	17
<code>gfs_student_medical</code>	18
<code>gfs_student_photos</code>	18
<code>gfs_student_send</code>	19
<code>gfs_student_sensitive</code>	19
<code>gfs_teaching_departments</code>	20
<code>gfs_teaching_groups</code>	20
<code>gfs_teaching_groups_students</code>	21
<code>gfs_teaching_groups_teachers</code>	21
<code>gfs_teaching_subjects</code>	22
<code>gfs_teaching_teachers</code>	22
<code>gfs_timetables</code>	23
<code>gfs_users_parent</code>	23
<code>gfs_users_staff</code>	23

`gfs_assessment_markbooks`*Get markbooks.*

Description

Returns the structure of markbooks in the chosen academic year, in terms of the marksheets they contain, and the markslots within each marksheet.

Usage

```
gfs_assessment_markbooks(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_assessment_markbooks(2020)
```

`gfs_assessment_marks` *Get marks.*

Description

Returns details of the marks achieved by students for individual marks.

- Use `gfs_assessment_markbooks()` to resolve markbooks.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_assessment_marks(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_assessment_marks(2020)
```

gfs_assessment_marksheets
Get marksheets.

Description

Returns details of the grades achieved by students for individual marksheets.

- Use `gfs_assessment_markbooks()` to resolve markbooks.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_assessment_marksheets(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_assessment_marksheet_grades(2020)
```

gfs_attainment_exam_results
Get exam results.

Description

Returns details of the exam results achieved by students.

- Use `gfs_student_details()` to resolve student personal details.
- Use `gfs_teaching_subjects()` to resolve subject details.

Usage

```
gfs_attainment_exam_results(academicYear, yearGroup)
```

Arguments

`academicYear` academic year as integer.
`yearGroup` year group as string.

Examples

```
gfs_attainment_exam_results(2020, "11")
```

`gfs_attainment_grades` *Get grades.*

Description

Returns details of the headline grades for students.

- Use `gfs_attainment_grade_types()` to resolve grade names.
- Use `gfs_student_details()` to resolve student personal details.
- Use `gfs_teaching_subjects()` to resolve subject details.

Usage

```
gfs_attainment_grades(academicYear, yearGroup)
```

Arguments

<code>academicYear</code>	academic year as integer.
<code>yearGroup</code>	year group as string.

Examples

```
gfs_attainment_grades(2020, "11")
```

`gfs_attainment_grade_types`
Get grade types.

Description

Returns details of the available types of headline grades.

Usage

```
gfs_attainment_grade_types(academicYear, yearGroup)
```

Arguments

<code>academicYear</code>	academic year as integer.
<code>yearGroup</code>	year group as string.

Examples

```
gfs_attainment_grade_types(2020, "11")
```

`gfs_attainment_prior` *Get prior attainment.*

Description

Returns prior attainment for students.

- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_attainment_prior(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_attainment_prior(2020)
```

`gfs_attendance_codes` *Get attendance codes.*

Description

Returns the Attendance codes and any aliases being used for the academic year.

Usage

```
gfs_attendance_codes(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_attendance_codes(2020)
```

gfs_attendance_student_lesson_marks
Get student lesson marks.

Description

Returns lesson attendance details for a particular date.

- Use gfs_attendance_codes to resolve attendance codes.
- Use gfs_student_details() to resolve student personal details.
- Use gfs_classes() to resolve timetabled classes.

Usage

```
gfs_attendance_student_lesson_marks(academicYear, goDate)
```

Arguments

academicYear	academic year as integer.
goDate	date as string in the form yyyy-mm-dd.

Examples

```
gfs_attendance_student_lesson_marks(2020, "2020-07-01")
```

gfs_attendance_student_session_marks
Get student session marks.

Description

Returns session attendance details for a particular date.

- Use gfs_attendance_codes to resolve attendance codes.
- Use gfs_student_details() to resolve student personal details.

Usage

```
gfs_attendance_student_session_marks(academicYear, goDate)
```

Arguments

academicYear	academic year as integer.
goDate	date as string in the form yyyy-mm-dd.

Examples

```
gfs_attendance_student_session_marks(2020, "2020-07-01")
```

```
gfs_attendance_student_summary
```

Get student attendance summary.

Description

Returns summary session data for all students for the academic year up to (but not including) today.

- Use `gfs_attendance_codes` to resolve attendance codes.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_attendance_student_summary(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_attendance_student_summary(2020)
```

```
gfs_behaviour_classification
```

Get classifications.

Description

Returns the current behaviour classification groups for the supplied academic year.

Usage

```
gfs_behaviour_classification(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_behaviour_classification(2020)
```

`gfs_behaviour_events` *Get events.*

Description

Returns lists of events for a particular date within an academic year.

- Use `gfs_behaviour_event_types()` to resolve event characteristics.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_behaviour_events(academicYear, goDate)
```

Arguments

<code>academicYear</code>	academic year as integer.
<code>goDate</code>	date as string in the form yyyy-mm-dd.

Examples

```
gfs_behaviour_events(2020, "2020-03-19")
```

`gfs_behaviour_events_range`
Get events over a range of dates.

Description

Returns list of events over a range of dates within an academic year.

- Use `gfs_behaviour_event_types()` to resolve event characteristics.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_behaviour_events_range(academicYear, goDateStart, goDateEnd)
```

Arguments

<code>academicYear</code>	academic year as integer.
<code>goDateStart</code>	start date of range as string in the form yyyy-mm-dd.
<code>goDateEnd</code>	end date of range as string in the form yyyy-mm-dd.

Examples

```
gfs_behaviour_events_range(2020, "2020-03-16", "2020-03-19")
```

gfs_behaviour_event_types
Get event types.

Description

Returns the current definition of the behaviour types for the supplied academic year.

Usage

```
gfs_behaviour_event_types(academicYear)
```

Arguments

academicYear academic year as integer.

Examples

```
gfs_behaviour_event_types(2020)
```

gfs_behaviour_followup
Get follow-up actions.

Description

Returns the current definitions for follow up behaviour actions for the supplied academic year.

Usage

```
gfs_behaviour_followup(academicYear)
```

Arguments

academicYear academic year as integer.

Examples

```
gfs_behaviour_followup(2020)
```

`gfs_behaviour_immediate`*Get immediate actions.*

Description

Returns the current definitions for immediate behaviour actions for the supplied academic year.

Usage

```
gfs_behaviour_immediate(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_behaviour_immediate(2020)
```

`gfs_calendar`*Get calendar.*

Description

Returns details of when the school is open, closed or open for staff training only in the chosen academic year.

- Use `gfs_timetables()` to resolve date, week, and period details.

Usage

```
gfs_calendar(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_calendar(2020)
```

gfs_classes	<i>Get classes.</i>
-------------	---------------------

Description

Returns details of all timetabled classes in the chosen academic year.

- Use `gfs_timetables()` to resolve date, week, and period details.
- Use `gfs_teaching_teachers()` to resolve teacher details.

Usage

```
gfs_classes(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_classes(2020)
```

gfs_contacts_parental	<i>Get parental contacts.</i>
-----------------------	-------------------------------

Description

Returns details of parental contacts for students.

Usage

```
gfs_contacts_parental()
```

gfs_reports	<i>Get reports.</i>
-------------	---------------------

Description

Returns details of available progress reports in the chosen academic year, including the grades and attributes associated with each set of reports.

Usage

```
gfs_reports(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_reports(2021)
```

`gfs_reports_attributes`*Get report attributes.*

Description

Returns attributes for students in chosen academic year and report.

- Use `gfs_reports` to resolve name and points value for an attribute choice for the student.
- Use `gfs_teaching_subjects()` to resolve subject details.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_reports_attributes(academicYear, reportID)
```

Arguments

<code>academicYear</code>	academic year as integer.
<code>reportID</code>	report ID as integer.

Examples

```
gfs_reports_attributes(2021, 57102)
```

`gfs_reports_comments` *Get report comments*

Description

Returns comments for students in chosen academic year and report.

- Use `gfs_reports` to resolve name and points value for an attribute choice for the student.
- Use `gfs_teaching_subjects()` to resolve subject details.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_reports_comments(academicYear, reportID)
```

Arguments

<code>academicYear</code>	academic year as integer.
<code>reportID</code>	report ID as integer.

Examples

```
gfs_reports_comments(2021, 57102)
```

gfs_reports_grades	<i>Get report grades</i>
--------------------	--------------------------

Description

Returns grades for students in chosen academic year and report.

- Use `gfs_reports` to resolve name and points value for an attribute choice for the student.
- Use `gfs_teaching_subjects()` to resolve subject details.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_reports_grades(academicYear, reportID)
```

Arguments

<code>academicYear</code>	academic year as integer.
<code>reportID</code>	report ID as integer.

Examples

```
gfs_reports_grades(2021, 57102)
```

gfs_school	<i>Get school details.</i>
------------	----------------------------

Description

Returns details of the school and the available academic years.

Usage

```
gfs_school()
```

`gfs_setup`*Run set up for gfs functions.*

Description

Use this function to store your API key for use with gfs functions. Authentication is required for all requests. See your school's administrator for an API key.

Usage

```
gfs_setup(api_key)
```

Arguments

`api_key` API key as string.

Examples

```
gfs_setup("a96650481f0245eea396726f85ac7049")
```

`gfs_student_classes`*Get student classes.*

Description

Returns details of which students are linked to which timetabled classes in the chosen academic year.

- Use `gfs_classes()` to resolve class details.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_student_classes(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_student_classes(2020)
```

gfs_student_demographics

Get demographic attributes.

Description

Returns the following attributes for students for the chosen academic year: country of birth, home language, first language, and nationality.

- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_student_demographics(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_student_demographics(2020)
```

gfs_student_details *Get students details.*

Description

Returns the current personal details (DOB, gender, names) of the students that were at school in the chosen academic year.

Usage

```
gfs_student_details(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_student_details(2020)
```

`gfs_student_edu_details`*Get education details.*

Description

Returns education details for students.

- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_student_edu_details(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_student_edu_details(2020)
```

`gfs_student_general`*Get general attributes.*

Description

Returns general student attributes for the chosen academic year. This will include all custom attributes and also system attributes not returned by other endpoints.

- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_student_general(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_student_general(2020)
```

gfs_student_medical	<i>Get student medical conditions.</i>
---------------------	--

Description

Returns medical conditions for students.

- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_student_medical(academicYear)
```

Arguments

academicYear	academic year as integer.
--------------	---------------------------

Examples

```
gfs_student_medical(2020)
```

gfs_student_photos	<i>Get student photos.</i>
--------------------	----------------------------

Description

Returns photos for students.

- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_student_photos(academicYear)
```

Arguments

academicYear	academic year as integer.
--------------	---------------------------

Examples

```
gfs_student_photos(2020)
```

gfs_student_send	<i>Get SEND attributes.</i>
------------------	-----------------------------

Description

Returns the following attributes for students for the chosen academic year: SEN code, SEN status, educational needs, gifted/talented, gifted/talented subject.

- Use gfs_student_details() to resolve student personal details.

Usage

```
gfs_student_send(academicYear)
```

Arguments

academicYear academic year as integer.

Examples

```
gfs_student_send(2020)
```

gfs_student_sensitive	<i>Get sensitive attributes.</i>
-----------------------	----------------------------------

Description

Returns the following attributes for students for the chosen academic year: FSM, FSMEver6, EAL, disadvantaged, ethnicity, ethnicity code, ever in care, looked after, pupil premium indicator, service child, traveller type.

- Use gfs_student_details() to resolve student personal details.

Usage

```
gfs_student_sensitive(academicYear)
```

Arguments

academicYear academic year as integer.

Examples

```
gfs_student_sensitive(2020)
```

`gfs_teaching_departments`*Get departments.*

Description

Returns details of departments in the chosen academic year.

Usage

```
gfs_teaching_departments(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_teaching_departments(2020)
```

`gfs_teaching_groups`*Get groups.*

Description

Returns details of teaching groups for each subject in the chosen academic year.

- Use `gfs_teaching_subjects()` to resolve subject details.

Usage

```
gfs_teaching_groups(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_teaching_groups(2020)
```

`gfs_teaching_groups_students`*Get groups and students.*

Description

Returns details of the students in each teaching group in the chosen academic year.

- Use `gfs_teaching_groups()` to resolve group details.
- Use `gfs_student_details()` to resolve student personal details.

Usage

```
gfs_teaching_groups_students(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_teaching_groups_students(2020)
```

`gfs_teaching_groups_teachers`*Get groups and teachers.*

Description

Returns details of teachers assigned to each teaching group in the chosen academic year.

- Use `gfs_teaching_groups()` to resolve group details.
- Use `gfs_teaching_teachers()` to resolve teacher details.

Usage

```
gfs_teaching_groups_teachers(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_teaching_groups_teachers(2020)
```

gfs_teaching_subjects *Get subjects.*

Description

Returns all subjects in the chosen academic year.

- Use `gfs_teaching_departments()` to resolve department details.

Usage

```
gfs_teaching_subjects(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_teaching_subjects(2020)
```

gfs_teaching_teachers *Get teachers.*

Description

Returns details of the teachers in the chosen academic year.

Usage

```
gfs_teaching_teachers(academicYear)
```

Arguments

`academicYear` academic year as integer.

Examples

```
gfs_teaching_teachers(2020)
```

gfs_timetables	<i>Get timetables.</i>
----------------	------------------------

Description

Returns details of the timetables and their associated periods for the chosen academic year.

Usage

```
gfs_timetables(academicYear)
```

Arguments

academicYear academic year as integer.

Examples

```
gfs_timetables(2020)
```

gfs_users_parent	<i>Get parents.</i>
------------------	---------------------

Description

Returns details of parent user accounts.

Usage

```
gfs_users_parent()
```

gfs_users_staff	<i>Get staff.</i>
-----------------	-------------------

Description

Returns details of staff user accounts.

Usage

```
gfs_users_staff()
```

Index

gfs_assessment_markbooks, [3](#)
gfs_assessment_marks, [3](#)
gfs_assessment_marksheets, [4](#)
gfs_attainment_exam_results, [4](#)
gfs_attainment_grade_types, [5](#)
gfs_attainment_grades, [5](#)
gfs_attainment_prior, [6](#)
gfs_attendance_codes, [6](#)
gfs_attendance_student_lesson_marks, [7](#)
gfs_attendance_student_session_marks, [7](#)
gfs_attendance_student_summary, [8](#)
gfs_behaviour_classification, [8](#)
gfs_behaviour_event_types, [10](#)
gfs_behaviour_events, [9](#)
gfs_behaviour_events_range, [9](#)
gfs_behaviour_followup, [10](#)
gfs_behaviour_immediate, [11](#)
gfs_calendar, [11](#)
gfs_classes, [12](#)
gfs_contacts_parental, [12](#)
gfs_reports, [12](#)
gfs_reports_attributes, [13](#)
gfs_reports_comments, [13](#)
gfs_reports_grades, [14](#)
gfs_school, [14](#)
gfs_setup, [15](#)
gfs_student_classes, [15](#)
gfs_student_demographics, [16](#)
gfs_student_details, [16](#)
gfs_student_edu_details, [17](#)
gfs_student_general, [17](#)
gfs_student_medical, [18](#)
gfs_student_photos, [18](#)
gfs_student_send, [19](#)
gfs_student_sensitive, [19](#)
gfs_teaching_departments, [20](#)
gfs_teaching_groups, [20](#)
gfs_teaching_groups_students, [21](#)
gfs_teaching_groups_teachers, [21](#)
gfs_teaching_subjects, [22](#)
gfs_teaching_teachers, [22](#)
gfs_timetables, [23](#)
gfs_users_parent, [23](#)
gfs_users_staff, [23](#)