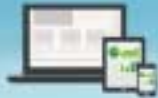


Clever

REAL-TIME LEARNING REQUIRES REAL-TIME DATA

APIs for Developers

Build applications that react to real-time data.
No manual updates.



Relief for Schools

Eliminate manual updates and
weekly data exports.



Automate Roster Sync

Never worry again about new enrollments, withdrawals, or class changes – let Clever keep the student rosters in your software up to date automatically.



Goodbye, CSVs

Say goodbye to manually exporting data in old formats. When schools and developers use Clever, shuffling CSVs becomes a thing of the past.

01100010011
01001011011
10011000010
11100100111

Real-time Data

Teachers move at the speed of light... shouldn't your software do the same? Forget weekly or nightly updates – with Clever, student data moves in real time.



CLEVER POWERS

the Next Generation of Education Software

-  Blended Learning
-  School Trends
-  Assessment Programs
-  Mobile Apps

LEADING COMPANIES RELY ON CLEVER



WHAT THEY SAY



"Our school partners are blown away that integrations with their SIS can be done in days, not months or years."

— MIKE REPERT, CEO, MASTERYCONNECT

CLEVER REST API

The Clever API allows education software developers to access real-time school data from Student Information Systems. The Clever API is built around the concepts of representational state transfer (REST). All communication with the API is done through HTTPS, and errors are communicated through HTTP response codes. All requests return JSON.

AUTHENTICATION

For authentication, the API uses HTTP Basic Authentication; use your API key for the username, and leave the password blank. The examples below show how to do this in different languages using DEMO_KEY, an API key that accesses dummy data.

RESPONSE CODES

200	Successful request
400	Bad request
401	Unauthorized. Bad API key or not authorized to access a resource.
404	Not found. The resource requested doesn't exist.
500	Server errors. We screwed up.

SELECTED EXAMPLES

From https://getclever.com/developers/docs/#!/_v11_push_events_id/events_id_get

GET /v1.1/districts Gets a list of districts you have access to across all districts.

PARAMETER	VALUE	DESCRIPTION
limit	<input type="text"/>	max records returned (default 100)
page	<input type="text"/>	which page of results to return (default 1)
count	<input type="text"/>	set to "true" to return count of results (default false)
where	<input type="text"/>	JSON query of the form {<field_name><query>[,<field_name2><query2>,...]}. <query> can be an exact string to match, or a JSON object with a meta-operator as its key: \$exists, \$lt, \$gt, \$gte, \$size, \$in, \$nin, \$regex, \$ne. More documentation coming soon.

CODE EXAMPLES curl python ruby coffeescript php

```
$ch = curl_init('https://api.getclever.com/v1.1/districts');
curl_setopt($ch, CURLOPT_USERPWD, 'DEMO_KEY' . ':');
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
$response = json_decode(curl_exec($ch));
print $response;
```

GET /v1.1/districts/{id} Get only a specific district's information.

GET /v1.1/districts/{id}/schools Retrieves a list of schools you have access to for a specific district.

GET /v1.1/districts/{id}/teachers Retrieves a list of teachers you have access to for a specific district.

GET /v1.1/districts/{id}/students Retrieves a list of students you have access to for a specific district.

PARAMETER	VALUE	DESCRIPTION
id	<input type="text" value="4fd43cc56d1134000000000"/>	District ID
limit	<input type="text"/>	max records returned (default 100)
page	<input type="text"/>	which page of results to return (default 1)
count	<input type="text"/>	set to "true" to return count of results (default false)
where	<input type="text"/>	JSON query of the form {<field_name>:<query>[,<field_name2>:<query2>,...]}. <query> can be an exact string to match, or a JSON object with a meta-operator as its key: \$exists, \$lt, \$gt, \$gte, \$size, \$in, \$nin, \$regex, \$ne. More documentation coming soon.

CODE EXAMPLES

- curl
- python
- ruby
- coffeescript
- php

```
$ch = curl_init('https://api.getclever.com/v1.1/districts/4fd43cc56d11340000000005/students');
curl_setopt($ch, CURLOPT_USERPWD, 'DEMO_KEY' . ':');
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
$response = json_decode(curl_exec($ch));
print $response;
```

GET **/v1.1/schools** Gets a list of schools you have access to across all districts.

GET **/v1.1/schools/{id}** Get only a specific school's information.

GET **/v1.1/schools/{id}/teachers** Retrieves a list of all teachers for a specific school.

GET **/v1.1/schools/{id}/students** Retrieves a list of all students for a specific school.

PARAMETER	VALUE	DESCRIPTION
id	<input type="text" value="4fee004cca2e43cf270000c"/>	School ID
limit	<input type="text"/>	max records returned (default 100)
page	<input type="text"/>	which page of results to return (default 1)
count	<input type="text"/>	set to "true" to return count of results (default false)
where	<input type="text"/>	JSON query of the form {<field_name>:<query>[,<field_name2>:<query2>,...]}. <query> can be an exact string to match, or a JSON object with a meta-operator as its key: \$exists, \$it, \$gt, \$gte, \$size, \$in, \$nin, \$regex, \$ne. More documentation coming soon.

CODE EXAMPLES [curl](#) [python](#) [ruby](#) [coffeescript](#) [php](#)

```
$ch = curl_init('https://api.getclever.com/v1.1/schools/4fee004cca2e43cf27000001/students');
curl_setopt($ch, CURLOPT_USERPWD, 'DEMO_KEY' . ':');
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
$response = json_decode(curl_exec($ch));
print $response;
```

GET **/v1.1/students** Gets a list of students you have access to across all districts.

GET **/v1.1/students/{id}** Get only a specific student's information.

GET **/v1.1/students/{id}/sections** Retrieves a list of all sections for a student.

PARAMETER	VALUE	DESCRIPTION
id	<input type="text" value="4fee004cca2e43cf270000c"/>	Student ID
limit	<input type="text"/>	max records returned (default 100)
page	<input type="text"/>	which page of results to return (default 1)

CODE EXAMPLES [curl](#) [python](#) [ruby](#) [coffeescript](#) [php](#)

```
curl -u DEMO_KEY: https://api.getclever.com/v1.1/students/4fee004cca2e43cf27000005/sections
```

GET /v1.1/sections Gets a list of sections you have access to across all districts.

GET /v1.1/sections/{id} Get only a specific section's information.

GET /v1.1/sections/{id}/school Retrieves information about the school for a section

GET /v1.1/sections/{id}/district Retrieves district information for a section.

GET /v1.1/sections/{id}/students Retrieves a list of all students in the section.

GET /v1.1/sections/{id}/teacher Retrieves information about the teacher of a section.

PARAMETER	VALUE	DESCRIPTION
id	<input type="text" value="4fee004dca2e43cf2700080c"/>	Teacher ID

CODE EXAMPLES curl python ruby coffeescript php

```
$ch = curl_init('https://api.getclever.com/v1.1/sections/4fee004dca2e43cf27000807/teacher');
curl_setopt($ch, CURLOPT_USERPWD, 'DEMO_KEY' . ':');
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
$response = json_decode(curl_exec($ch));
print $response;
```

GET /v1.1/push/webhooks Gets a list of all webhooks you've registered with Clever.

In the Clever API, an "Event" is triggered whenever a school, teacher, section, or student is either created, updated, or deleted. Clever has the ability to push these events to your server via HTTP POST requests. "Webhooks" are the name for the URLs you set up to receive these events.

PARAMETER	VALUE	DESCRIPTION
limit	<input type="text"/>	max records returned (default 100)
page	<input type="text"/>	which page of results to return (default 1)

CODE EXAMPLES curl python ruby coffeescript php

```
$ch = curl_init('https://api.getclever.com/v1.1/push/webhooks');
curl_setopt($ch, CURLOPT_USERPWD, 'DEMO_KEY' . ':');
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
$response = json_decode(curl_exec($ch));
print $response;
```

POST /v1.1/push/webhooks Register a webhook with Clever.

GET /v1.1/push/webhooks/{id} Get only a specific webhook's information.

DELETE /v1.1/push/webhooks/{id} Unregisters a webhook with Clever.

GET /v1.1/push/events Gets a list of all events that have occurred within data you have access to see.

GET /v1.1/push/events/{id} Retrieves specific event information.

PARAMETER	VALUE	DESCRIPTION
id	4fdec15188ee33fca200047	Event ID

CODE EXAMPLES curl python ruby coffeescript php

```

$ch = curl_init('https://api.getclever.com/v1.1/push/events/4fdec15188ee33fca2000470');
curl_setopt($ch, CURLOPT_USERPWD, 'DEMO_KEY' . ':');
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
$response = json_decode(curl_exec($ch));
print $response;

```

THE CLEVER TEAM

We believe that data should empower learning, not hold it back. With unique experiences in education and technology, the Clever team understands the data challenges that schools and developers face. Our mission is to make powerful educational software easy to build and easy to deploy. Interested in joining us? Get in touch/



TYLER BOSMENY

With a background in startups and technology, Tyler spends his time at Clever working with innovative educational software companies. Prior to his current role, Tyler was Vice President of Sales at PaperG, ranked by Forbes as one of the top 100 most promising companies in America. Tyler holds an MA degree in Statistics and a BA degree in Applied Mathematics, both from Harvard. He is a native of Tucson, AZ, and currently resides in San Francisco.

DAN CARROLL

Running technology for a charter school network, Dan saw first-hand how data obstacles were quickly becoming the biggest barriers to innovation in education. Prior to Clever, Dan led technology for West Denver Prep, where he had also taught middle school science as a Teach for America Corps Member. Now, Dan works with schools around the country to use data to aid innovation. Dan holds a BA in Human Evolutionary Biology from Harvard and currently resides in San Francisco.



RAFAEL GARCIA

Part man, part wizard, Rafael leads the technical team and is in charge of all product engineering. Prior to co-founding Clever, Rafael worked at Jump Trading, where he specialized in machine learning and working with large volumes of data. Rafael holds a BA degree in Applied Mathematics and Computer Science from Harvard. He is a native of Naperville, IL, and lives in San Francisco, CA.